APPENDIX A

Health Risk Assessment

Irwindale Industrial Center Project

Health Risk Assessment of Diesel Truck Emissions

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EXECUTIVE SUMMARY

This health risk assessment assesses potential health risk impacts on residents from exposure to diesel emissions generated by trucks due to the proposed Project. The Project site is currently developed with a telecommunications service yard, which would be displaced due to the construction of two warehouse buildings totaling 233,987 square feet.

A 30-year exposure scenario was assessed to identify lifetime health risk values. A 9-year exposure scenario was also assessed to identify the health risk values associated with the average time individuals are likely to reside at a given residence. Both scenarios assess potential cancer (carcinogenic) and noncancer (noncarcinogenic) effects from contaminant exposures. The estimated maximum cancer risk at nearby residences would not exceed SCAQMD's significance criterion of 10 per 1 million for both 30-year and 9-year exposure scenarios. In addition, the maximum noncancer hazard indices for the Project's MEIR would be less than 1 and would not be considered significant.

INTRODUCTION

This health risk assessment (HRA) has been prepared for the Irwindale Industrial Center Project (Project) to assess potential health risk impacts on residents from exposure to diesel emissions generated by trucks. Based on the California Air Resources Board's (CARB's) *Air Quality and Land Use Handbook: A Community Perspective,* citing sensitive land uses such as residential uses close to freeways and high-traffic roads can increase the potential for adverse health effects.[1] The Project would maintain the two existing full access driveways at Azusa Canyon Road roughly opposite the intersections of Sandstone Street and Nubia Street.

[1] CARB, *Air Quality and Land Use Handbook: A Community Health Perspective* (April 2005), accessed December 2018, https://www.arb.ca.gov/ch/handbook.pdf.

PROJECT DESCRIPTION

The Project Site is in the City of Irwindale (City) within Los Angeles County, as shown in **Figure 1: Regional Location Map.** The City is located in the San Gabriel Valley, roughly 20 miles east of downtown Los Angeles, northeast of the City of Baldwin Park, and south of the City of Monrovia.

The Project is located at 5010 Azusa Canyon Road (Project Site), at the northeast corner of Nubia Street and Azusa Canyon Road, roughly 675 feet south of Arrow Highway, as shown in **Figure 2: Project Site Location**. The Proposed Project involves the demolition of existing on-site buildings and structures, and the development of two speculative stand-alone concrete tilt-up buildings and associated parking. The Project Site comprises four existing parcels (Assessor Parcel Numbers 8417-025-800, 8417-025-801, 8417-026-800, and 8417-026- 801), totaling roughly 10.7 acres. The proposed Project will maintain the two existing full access driveways at Azusa Canyon Road, roughly opposite the intersections of Sandstone Street and Nubia Street. The proposed project is anticipated to be constructed and fully operational by year 2021.

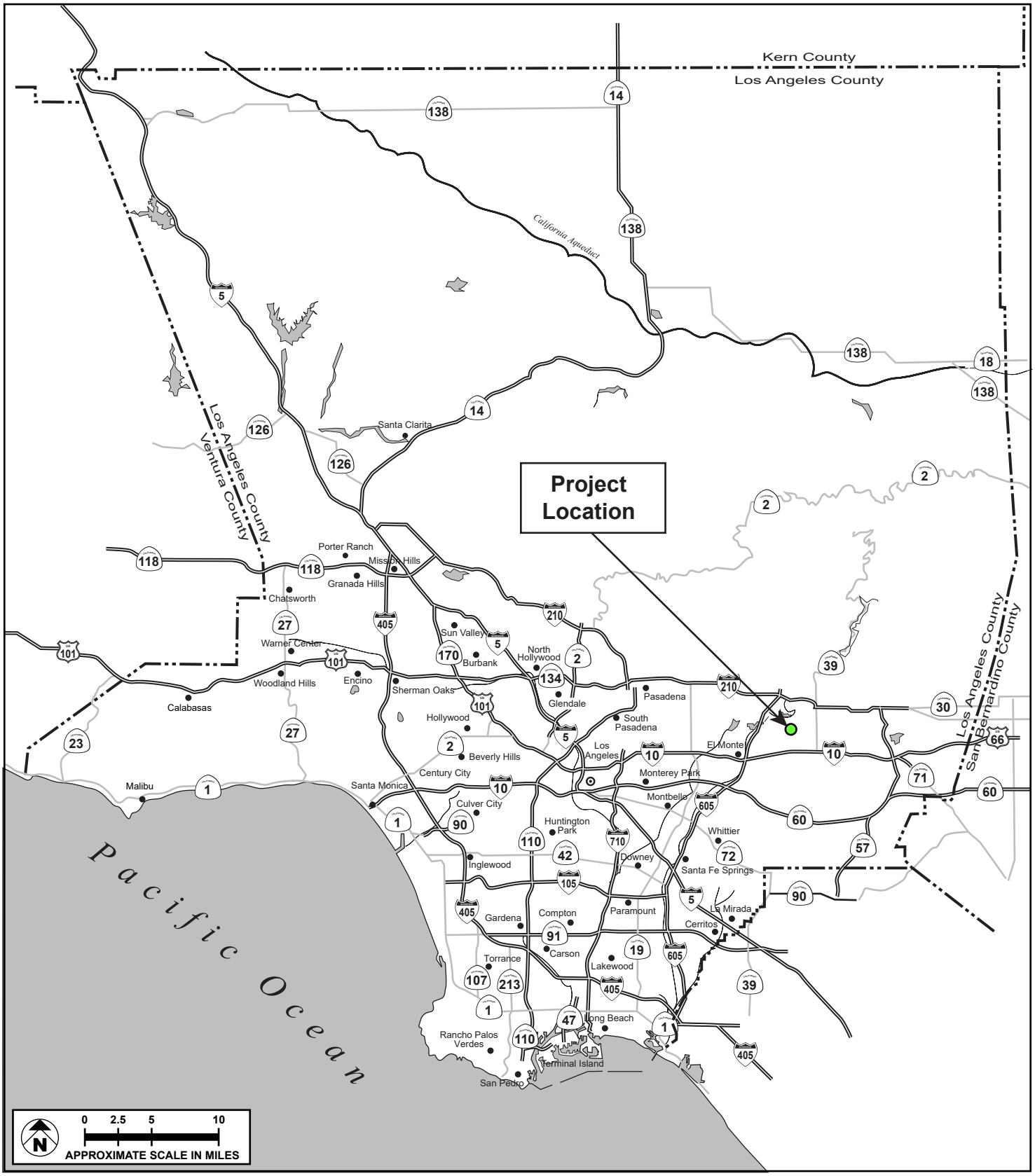

FIGURE **1**

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Regional Location Map

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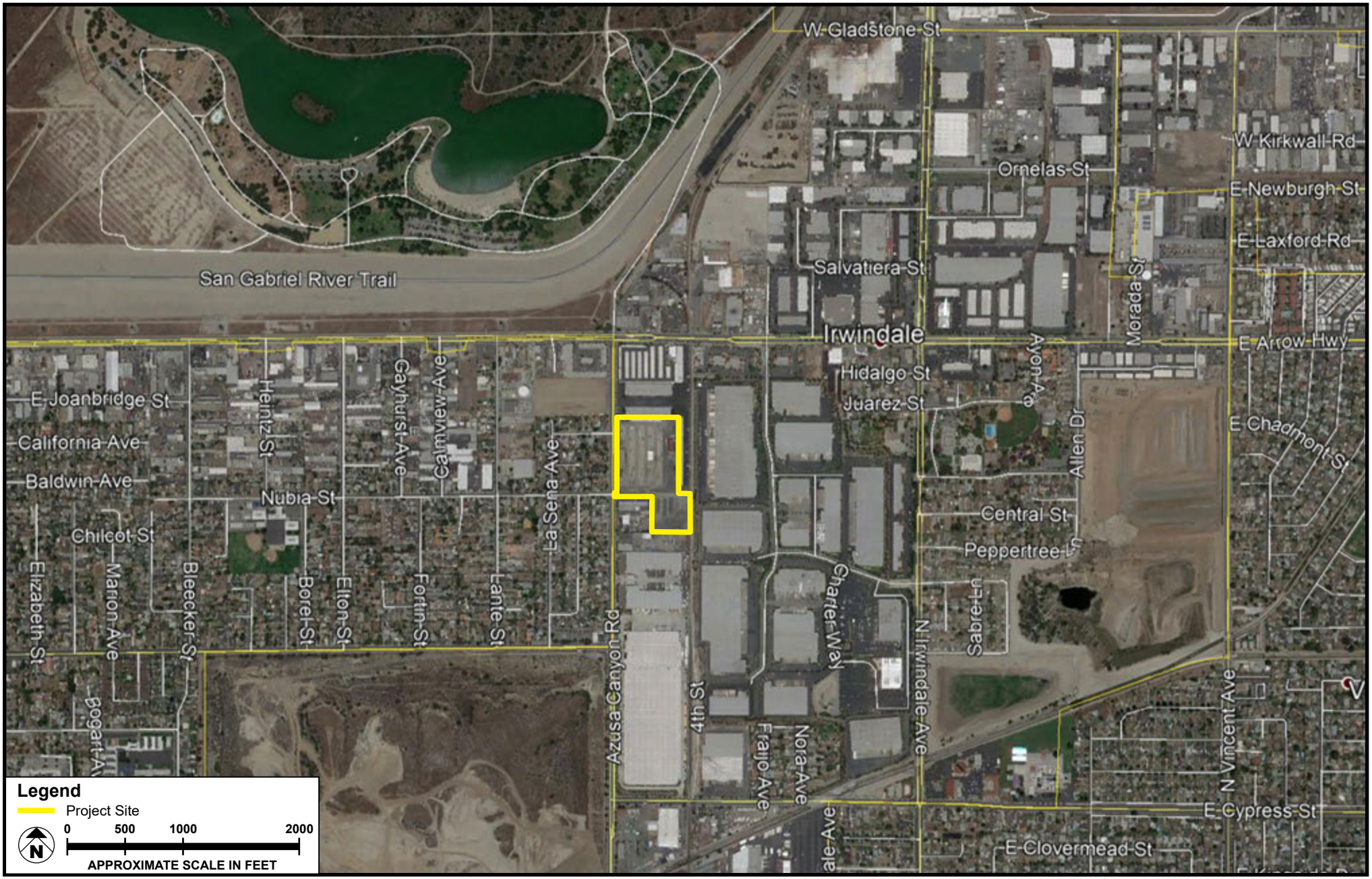

SOURCE: Google Earth - 2017

FIGURE **2**

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Project Site Location

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HEALTH RISK ASSESSMENT

Background

The primary toxic air contaminant (TAC) of concern from diesel exhaust is diesel particulate matter (DPM). In 1998, CARB identified DPM from diesel-powered engines as a TAC based on its potential to result in an increased cancer risk, as well as other noncancer adverse health effects, due to prolonged exposure. Some short-term (acute) effects of DPM exposure include eye, nose, throat, and lung irritation; coughs; headaches; light-headedness; and nausea. Long-term (chronic) effects include aggravation of existing respiratory and cardiovascular disease; alteration in the body's defense systems against foreign materials; damage to lung tissue and reduced lung function; carcinogenesis; premature birth rates; and premature death.

TAC generators located with the South Coast Air Basin are associated with diesel-fueled vehicles producing DPM, as well as with specific types of facilities, such as dry cleaners, gas stations, distribution centers, and ports. The CARB has made specific recommendations with respect to siting new sensitive uses near existing TAC-emitting facilities. Among other specific recommendations, CARB suggests siting sensitive receptors (such as residences) no less than 500 feet from freeways or major roadways.

This HRA evaluates the potential for increased health risks to residents at the west of the Project site resulting from exposure to diesel exhaust emissions (a TAC) generated by trucks entering and leaving the site. Because the Project is not located within the buffer distance of any other major TAC-emitting facilities, this HRA is limited to the impacts from DPM associated with the diesel trucks.

Additionally, given that diesel-powered trucks are the primary contributors of DPM on roadways and freeways, this HRA analysis evaluates the adverse health risks of the residents' increased exposure to DPM associated with trucks traveling along Azusa Canyon Road, specifically. Adverse health risks are discussed in terms of cancer and cancer risks. Noncancer health risks can be measured quantitively, with the risk designated as a hazard index.

Cancer risks have no set thresholds because carcinogens are considered to be nonthreshold pollutants. This means that for any nonzero concentration of a carcinogen, there is an increased risk of developing cancer. Therefore, significance exposure to a carcinogen is evaluated based on the increase in risk. The increased risk is determined by multiplying a calculated dose with the cancer potency factor and then by 1 million to express risk in the common term of the risk per million people. An HRA evaluates the increased cancer risk from the continuous exposure to a pollutant over a lifetime.

Inhalable particulate matter equal to or less than 10 microns in diameter (PM10) from diesel exhaust is used as a surrogate for evaluating the cancer and chronic noncancer risk from DPM exposure. The health

risks for the proposed Project are evaluated by first estimating the DPM emissions produced by diesel vehicles trips to the Project site. Dispersion modeling is then used to convert those emissions to ambient (existing background) concentrations. Finally, the ambient concentrations are used to determine whether the residents along Azusa Canyon Road would be exposed to an increased potential for health risks from operations of the proposed Project.

Significance Criteria

Neither the State nor the South Coast Air Quality Management District (SCAQMD) has developed a quantitative threshold for the purposes of evaluating the health impacts on residential developments from exposure to TAC emissions associated with a nearby freeway or high-volume roadway. Currently, the SCAQMD has only developed significance thresholds that apply to single stationary and mobile sources of TAC emissions, such as projects involving truck stops or warehouses. However, in the absence of a threshold specific to assessing health impacts from a freeway, the SCAQMD's stationary-source TAC thresholds of 10 in 1 million for cancer risk and 1 for hazard index would serve as the most appropriate thresholds for use in this HRA analysis.

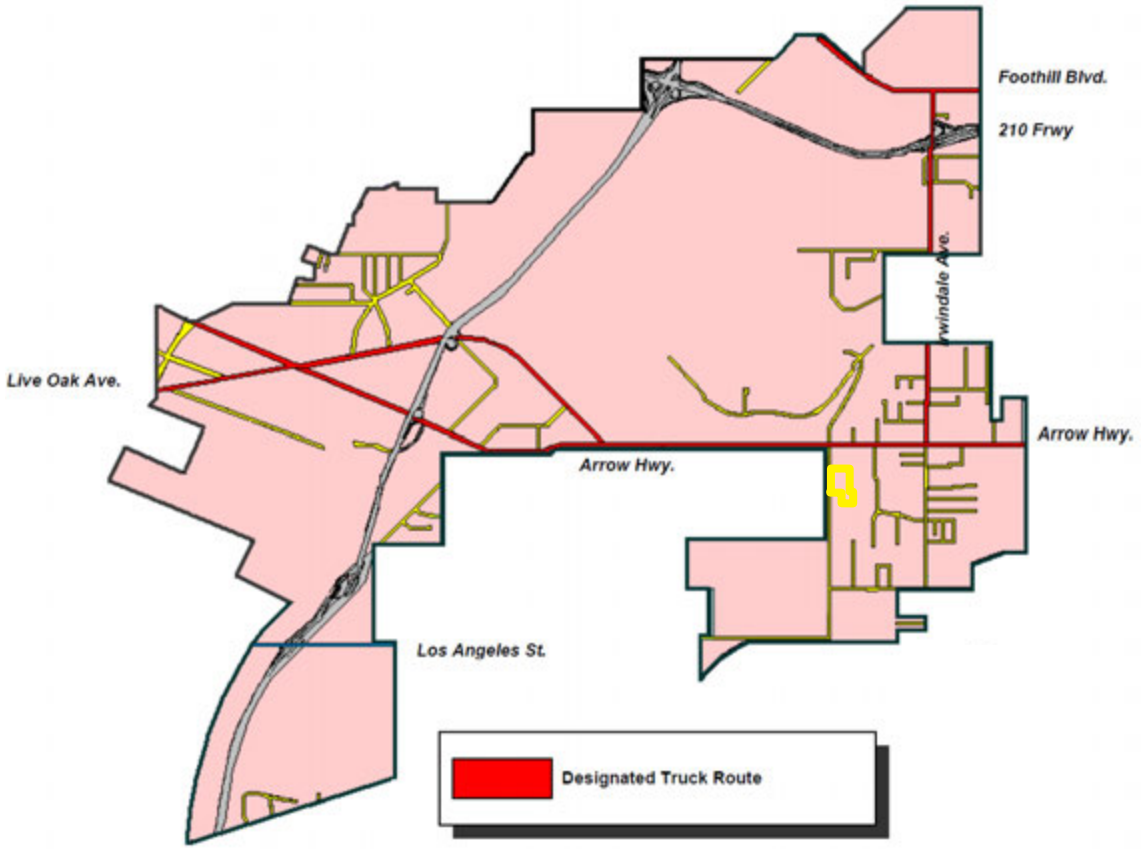
Truck Routes

"Truck traffic routes" have been established within the City to accommodate vehicles that exceed 3 tons of maximum gross weight. The City's Municipal Code (Section 10.40.020) does not permit the movement or parking of such heavy vehicles (with the exception of public transportation buses) on any streets other than those designated as truck traffic routes, as shown in **Figure 3: Designated Truck Routes**. **Table 1: Major Designated Truck Routes in Irwindale** identifies the designated truck routes in the City.

Table 1
Major Designated Truck Routes in Irwindale

Truck Routes		
Irwindale Avenue	Peck Road	Lower Azusa Road
Arrow Highway	Vincent Avenue	Foothill Boulevard
Live Oak Avenue	Cypress Street	Myrtle Avenue
Los Angeles	Azusa Canyon Road	
Longden Avenue	Rivergrade Road	

_____
Source: City of Irwindale, 2020 General Plan, *accessed December 2018, http://www.ci.irwindale.ca.us/DocumentCenter/View/38.*



Legend

Project Site

0 2000 4000 8000

APPROXIMATE SCALE IN FEET

SOURCE: City of Irwindale, 2020 General Plan - June 2008

FIGURE **3**

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Designated Truck Routes

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Trip Generation

Table 2: Project Truck Trip Generation provides the net number of truck trips resulting from displacement of the existing use and development of the proposed Project. The proposed project is forecast to result in a net increase of 207 trucks trips, including 26 trips during the morning (AM) peak hour and 27 evening (PM) peak hour.

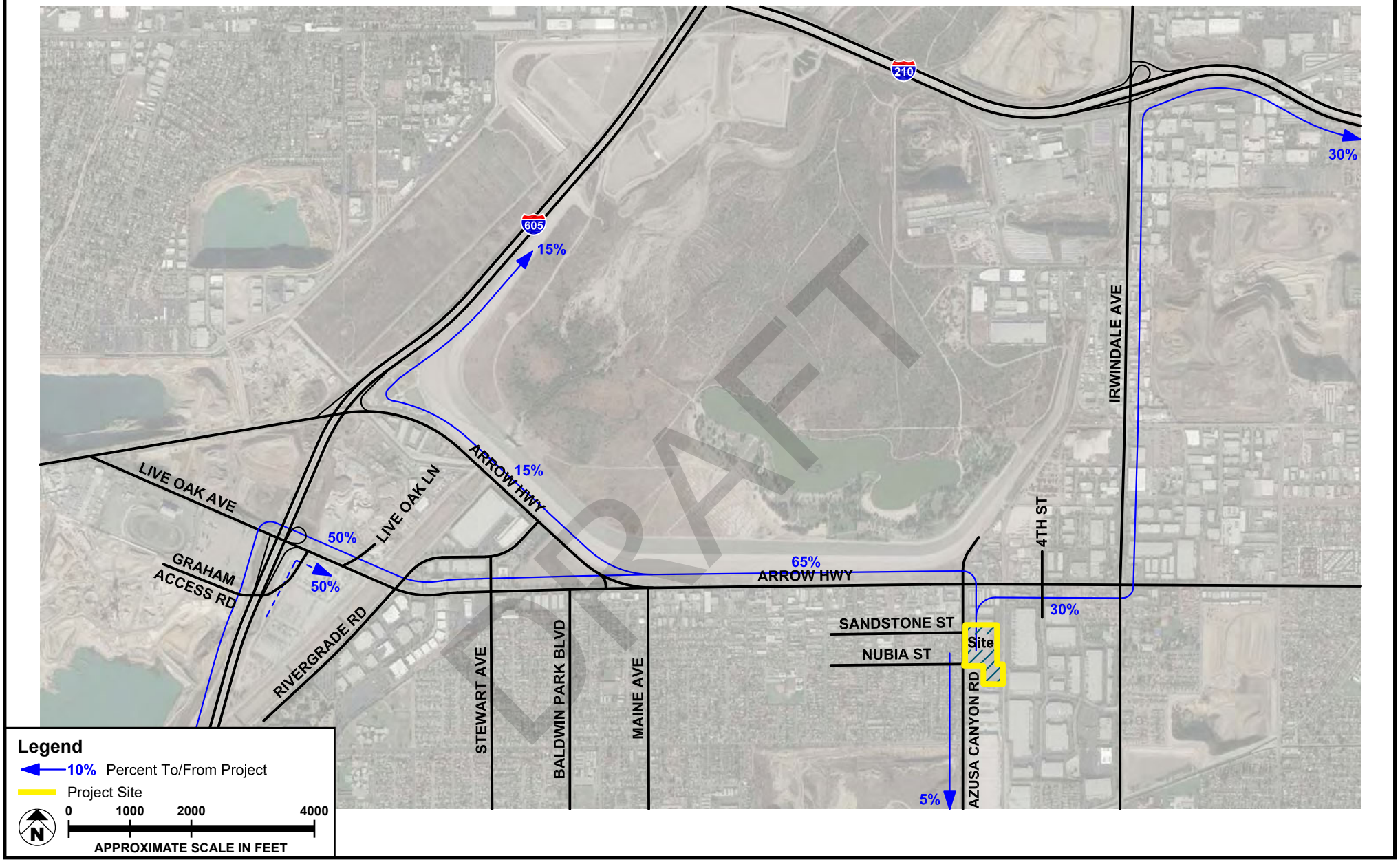
Table 2
Project Truck Trip Generation

		Truck Trips Generated						
		AM Peak Hour			PM Peak Hour			
Vehicle Mix	**Percent (%)**	**In**	**Out**	**Total**	**In**	**Out**	**Total**	**Daily**
2-axle trucks	8.0	12	2	14	2	10	12	93
3-axle trucks	3.9	6	1	7	1	5	6	45
4-axle or greater trucks	9.5	14	2	16	2	12	14	110
Project Trucks subtotal	21.4	32	5	37	5	27	32	248
Existing Trucks subtotal	—	*2*	*9*	*11*	*5*	*0*	*5*	*41*
Total		**30**	**-4**	**26**	**0**	**27**	**27**	**207**

Source: Ganddini Group Inc., 5010 Azusa Canyon Road Traffic Impact Analysis *(December 5, 2018).*

Project Trip Distribution and Assignment

Figure 4: Project Truck Trip Distribution shows the forecast directional distribution patterns for the Project-generated truck trips. The project trip distribution patterns were determined in consultant with City staff and are based on a review of existing volume data, surrounding land use, and the local and regional roadway facilities in the Project's vicinity. As shown in **Figure 2**, approximately 95 percent (197) of trucks would travel to the north of the site towards Arrow Highway, a designated truck traffic route (refer to **Table 1**). In addition, approximately 5 percent (10) of trucks would travel south along Azusa Canyon Road adjacent to the single- and multifamily residential residences to the west of the Project site, as shown in **Figure 5: Sensitive Receptor Locations**.



SOURCE: Ganddini Group, Traffic Impact Analysis - December 2018

FIGURE **4**

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Project Truck Trip Distribution

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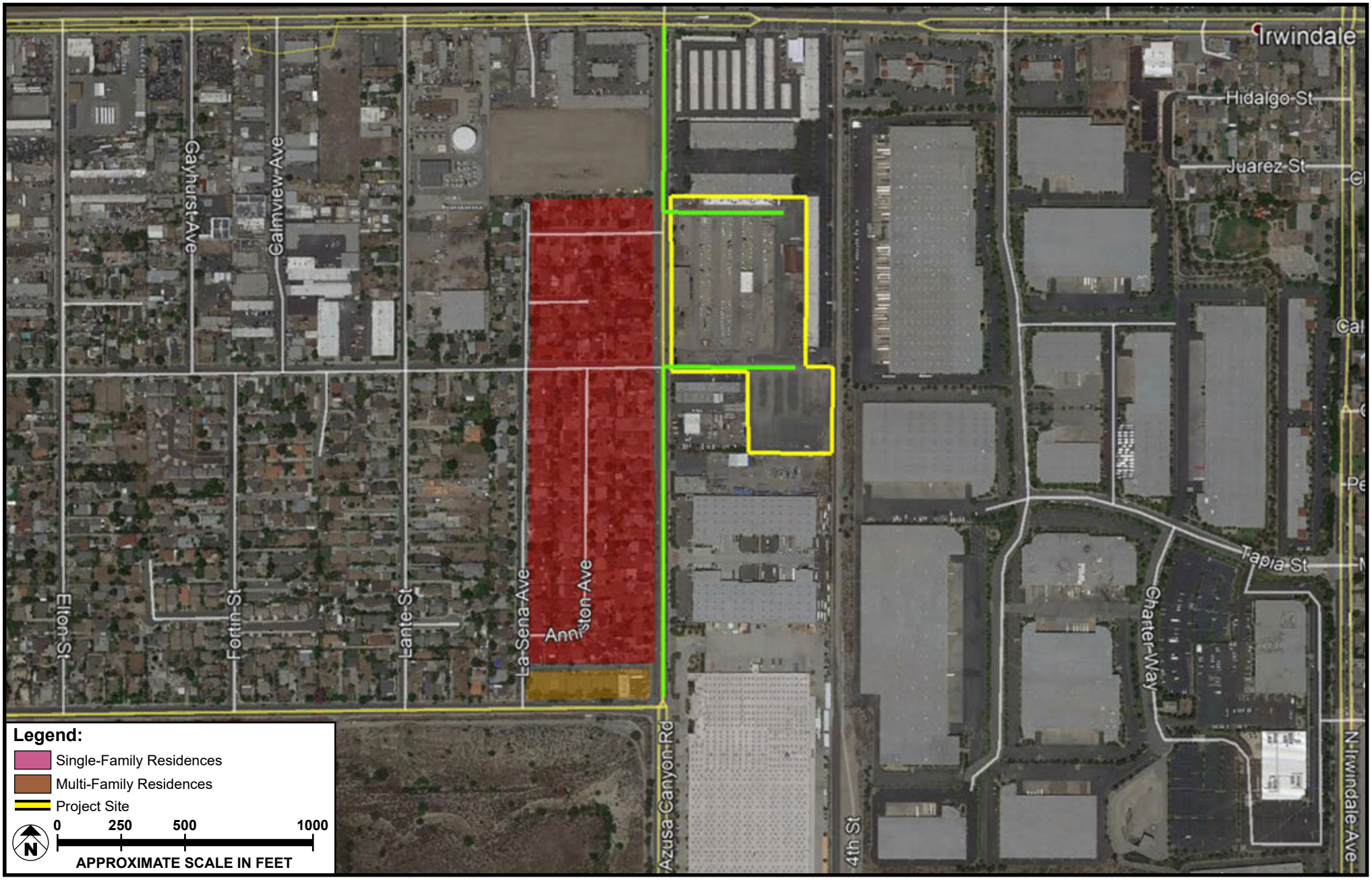

SOURCE: Google Earth - 2018; Meridian Consultants - 2018

FIGURE **5**

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Sensitive Receptor Locations

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Methodology

Detailed Modeling

Air dispersion modeling was conducted using the Lakes Environmental American Meteorological Society/US Environmental Protection Agency (USEPA) Regulator Model (AERMOD v. 9.6.5). This model is a steady-state, multiple-source, Gaussian dispersion model designed for use with emission sources situated in terrain where ground elevations can exceed the release heights of the emission sources (i.e., complex terrain). AERMOD is the USEPA's regulatory dispersion model specified in the Guideline for Air Quality Models.[2] AERMOD is recommended for use by the SCAQMD, which has established its own modeling guidance for the model.[3]

Emission Sources

Within AERMOD, diesel vehicle traffic was modeled as a line source comprised of separate volume sources along Azusa Canyon Road. As mentioned previously, the proposed Project will maintain the two existing full access driveways at Azusa Canyon Road, which are roughly opposite the intersections of Sandstone Street and Nubia Street. Diesel exhaust emissions were modeled using a release height of 5 feet. The plume height and width used for each volume source were 9.6 feet and 24 feet, respectively.

Emission Rates

The quantification of diesel exhaust emissions requires a diesel exhaust emission rate (in grams per second) from trucks. To estimate this emission rate, emission factors (in grams per mile) for the various vehicle classes of diesel-powered trucks were obtained from the EMFAC web database.[4] EMFAC2017 and EMFAC2014 versions of the Web Database are currently provided. The most recent USEPA-approved version is EMFAC2014. Pollutant emission rates were identified for diesel particulates. Using the emission factors and the daily truck trips from the traffic study,[5] the total grams of diesel exhaust emissions that would be generated by the proposed Project were modeled and obtained. In turn, the total emissions amount was then converted into an exhaust emission rate in grams per second.

2 40 Code of Federal Regulations, pt. 51, Revisions to the Guideline on Air Quality Models: Enhancements to the AERMOD Dispersion Modeling System and Incorporation of Approaches to Address Ozone and Fine Particulate Matter, *Federal Register* 82, no. 10 (January 17, 2017), accessed December 2018, https://www3.epa.gov/ttn/scram/appendix_w/2016/AppendixW_2017.pdf.

3 SCAQMD, "SCAQMD Modeling Guidance for AERMOD," accessed December 2018, http://www.aqmd.gov/home/library/air-quality-data-studies/meteorological-data/modeling-guidance.

4 CARB, *EMFAC Web Database*, accessed December 2018, https://www.arb.ca.gov/emfac/.

5 Ganddini Group Inc., *5010 Azusa Canyon Road Traffic Impact Analysis* (December 5, 2018).

Meteorological Data

To run AERMOD, the following hourly surface meteorological data are required: wind speed, wind direction, ambient temperature, and opaque cloud cover. These meteorological variables are used to estimate air dispersion of pollutants in the atmosphere. Wind speed determines how rapidly pollutants are diluted and influences the rise of the emission plume in the air, thus affecting downwind pollutant concentrations. Wind direction determines where pollutants will be transported. The opaque cloud cover and upper air surrounding data are used in calculations to determine other important dispersion parameters. These include atmospheric stability (a measure of turbulence and the rate at which pollutants disperse laterally and vertically) and mixing height (the vertical depth of the atmosphere within which dispersion occurs). The greater the mixing height is, the larger the volume of atmosphere is available to dilute the pollutant concentration.

The dispersion modeling for the Project utilized preprocessed meteorological data from the Azusa Air Monitoring station.[6] The meteorological data was collected for the years between January 2012 and December 2016.

Sensitive Receptors

To determine the DPM concentrations at the adjacent residences, discrete receptors were placed at the surrounding residences of the Project site (refer to **Figure 5**). Based on SCAQMD's AERMOD modeling guidance, all receptors were set to a height of 0 feet (0 meters) so that ground-level concentrations were analyzed.

Terrain Data

The modeling analysis also included terrain data to accurately assess impacts in three dimensions. The terrain data used for the analysis was from the digital elevation model data for the San Bernardino 1-degree quadrangles obtained through the AERMOD program.

Urban/Rural

The AERMOD model requires that the user specify whether a site should be modeled as either urban or rural. The urban option allows the user to incorporate the effects of increased surface heating from an urban area on pollutant dispersion under stable atmospheric conditions. This surface heating typically causes better dispersion, which results in lower pollutant concentrations.

6 SCAQMD, "AERMOD Table 1: Meteorological Sites," accessed December 2018, https://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/aermod-table-1.

Based on SCAQMD's AERMOD modeling guidance, all air quality impact analyses in the Basin should be executed using the urban modeling option. In addition, all sources should be modeled with urban effects using the population of the City where the Project is located. As such, the population of 76,402[7] was used in the AERMOD run.

Exposure Health Risks and Hazards

Table 3: Estimated Inhalation Cancer Risk and Chronic Hazards shows the estimated range of excess cancer risk and chronic hazard indices for residences near the proposed Project site (refer to **Figure 5**). The maximally exposed individual receptor (MEIR) is represented by the residences located adjacent to Azusa Canyon Road.

As shown in **Table 3**, the maximum 30-year and 9-year cancer risks at the Project site from DPM emissions generated by diesel truck travel along Azusa Canyon Road are 2.15 E-06 and 1.52 E-06, respectively. The cancer risk for residents would not exceed the SCAQMD's suggested significance criteria of 10 per one million (1.0 E-06). Additionally, the maximum noncancer hazard indices for the Project's residents are 4.96 E-04 for the MEIR receptors. A hazard index of less than 1 is considered to be not significant.

Table 3
Estimated Inhalation Cancer Risk and Chronic Hazards

Receptor	Cancer Risk		Chronic Noncancer Hazard Index
	30-year	9-year	
Resident MEIR	2.15 E-06	1.52 E-06	4.96 E-04

*Note: See **Appendix A** for calculations.*

7 US Census Bureau, "Quick Facts: Baldwin Park city," accessed December 2018, https://www.census.gov/quickfacts/baldwinparkcitycalifornia.

APPENDIX A

EMFAC Worksheet

EMFAC2017 (v1.0.2) Emission Rates
Region Type: County
Region: LOS ANGELES
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2011 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	% VMT	Trips	PM10_RUNEX	PM10-RUN EX AVE	PM10_IDLEX	PM10_IDLEX AVE	PM10_STREX	PM10_STREX AVE	PM10_PMTW	PM10_PMTW AVE	PM10_PMBW	PM10_PMBW AVE
LOS ANGELES	2021	LHD1	Aggregated	Aggregated	DSL	61698.8458	2667214.83	0.009331305	776093.86	0.014757124	0.005334072	0.02789731	0.011545427	0	0	0.012000003	0.013761468	0.076440022	0.014277869
LOS ANGELES	2021	LHD2	Aggregated	Aggregated	DSL	24847.529	1035822.88	0.003623847	312550.66	0.01597852	0.005775555	0.02845989	0.011778254	0	0	0.012000003	0.013761468	0.089180026	0.016657514
LOS ANGELES	2021	PTO	Aggregated	Aggregated	DSL	0	78431.86638	0.000274395	0	0.100402106	0.036291089	0	0	0	0	0	0	0	0
LOS ANGELES	2021	T6 Ag	Aggregated	Aggregated	DSL	12.1309527	104.3587548	3.65101E-07	53.376192	0.417932969	0.151064985	0.134900519	0.055829186	0	0	0.012000003	0.013761468	0.130340037	0.024345598
LOS ANGELES	2021	T6 CAIRP heavy	Aggregated	Aggregated	DSL	334.30899	65862.4333	0.000230421	4880.9113	0.01939931	0.007012025	0.006654476	0.002753985	0	0	0.012000003	0.013761468	0.130340037	0.024345598
LOS ANGELES	2021	T6 CAIRP small	Aggregated	Aggregated	DSL	176.717166	9271.232452	3.24356E-05	2580.0706	0.031211022	0.011281456	0.009499508	0.003931414	0	0	0.012000003	0.013761468	0.130340037	0.024345598
LOS ANGELES	2021	T6 instate construction heavy	Aggregated	Aggregated	DSL	2463.57993	167642.3835	0.0005865	11137.749	0.091227587	0.032974891	0.011810577	0.00488786	0	0	0.012000003	0.013761468	0.130340037	0.024345598
LOS ANGELES	2021	T6 instate construction small	Aggregated	Aggregated	DSL	8566.23827	443239.724	0.001550683	38727.63	0.088007015	0.031810791	0.025610861	0.01059917	0	0	0.012000003	0.013761468	0.130340037	0.024345598
LOS ANGELES	2021	T6 instate heavy	Aggregated	Aggregated	DSL	10455.485	1410072.143	0.004933166	120654.85	0.059645443	0.02155929	0.017896708	0.007406633	0	0	0.012000003	0.013761468	0.130340037	0.024345598
LOS ANGELES	2021	T6 instate small	Aggregated	Aggregated	DSL	38393.7964	1920331.232	0.006718318	443059.09	0.082452641	0.029803121	0.024445967	0.010117073	0	0	0.012000003	0.013761468	0.130340037	0.024345598
LOS ANGELES	2021	T6 OOS heavy	Aggregated	Aggregated	DSL	191.639801	38081.09496	0.000133227	2797.9411	0.01642678	0.005937582	0.005018361	0.002076871	0	0	0.012000003	0.013761468	0.130340037	0.024345598
LOS ANGELES	2021	T6 OOS small	Aggregated	Aggregated	DSL	101.729761	5283.650628	1.8485E-05	1485.2545	0.032744175	0.011835626	0.010008463	0.004142047	0	0	0.012000003	0.013761468	0.130340037	0.024345598
LOS ANGELES	2021	T6 Public	Aggregated	Aggregated	DSL	4497.85457	69891.41772	0.000244517	13643.492	0.028854378	0.01042963	0.075900504	0.031411765	0	0	0.012000003	0.013761468	0.130340037	0.024345598
LOS ANGELES	2021	T6 utility	Aggregated	Aggregated	DSL	1007.55929	16957.30385	5.93255E-05	11586.932	0.003910379	0.001413435	0.001958878	0.000810691	0	0	0.012000003	0.013761468	0.130340037	0.024345598
LOS ANGELES	2021	T7 Ag	Aggregated	Aggregated	DSL	4.85470752	113.1890197	3.95994E-07	21.360713	0.71583197	0.258742798	0.519904067	0.215164635	0	0	0.03600001	0.041284404	0.061740018	0.011532125
LOS ANGELES	2021	T7 CAIRP	Aggregated	Aggregated	DSL	6279.13279	1115075.522	0.003901114	91675.339	0.033018229	0.011934685	0.182555052	0.075551229	0	0	0.03600001	0.041284404	0.061740018	0.011532125
LOS ANGELES	2021	T7 CAIRP construction	Aggregated	Aggregated	DSL	666.413429	120418.9803	0.000421288	3012.8292	0.032170437	0.011628244	0.013786513	0.00570561	0	0	0.03600001	0.041284404	0.061740018	0.011532125
LOS ANGELES	2021	T7 NNOOS	Aggregated	Aggregated	DSL	6776.41906	1359344.742	0.004755695	98935.718	0.031577443	0.011413902	0.293825345	0.12160094	0	0	0.03600001	0.041284404	0.061740018	0.011532125
LOS ANGELES	2021	T7 NOOS	Aggregated	Aggregated	DSL	2465.53665	438114.9058	0.001532754	35996.835	0.029317049	0.010596866	0.163649935	0.067727261	0	0	0.03600001	0.041284404	0.061740018	0.011532125
LOS ANGELES	2021	T7 POLA	Aggregated	Aggregated	DSL	8055.06441	1016317.432	0.003555607	61218.49	0.039735784	0.014362795	0.018580648	0.007689685	0	0	0.03600001	0.041284404	0.061740018	0.011532125
LOS ANGELES	2021	T7 Public	Aggregated	Aggregated	DSL	5442.96237	110265.6618	0.000385767	16510.319	0.052205394	0.018870029	0.091022629	0.037670124	0	0	0.03600001	0.041284404	0.061740018	0.011532125
LOS ANGELES	2021	T7 Single	Aggregated	Aggregated	DSL	5864.85843	394998.5563	0.00138191	67679.653	0.091283379	0.032995057	0.035204159	0.014569399	0	0	0.03600001	0.041284404	0.061740018	0.011532125
LOS ANGELES	2021	T7 single construction	Aggregated	Aggregated	DSL	4248.667	298737.3414	0.001045139	19208.058	0.087742959	0.031715346	0.032354446	0.013390033	0	0	0.03600001	0.041284404	0.061740018	0.011532125
LOS ANGELES	2021	T7 SWCV	Aggregated	Aggregated	DSL	1524.43692	62284.87901	0.000217905	5945.304	0.017630581	0.006372705	0.172892676	0.071552411	0	0	0.03600001	0.041284404	0.061740018	0.011532125
LOS ANGELES	2021	T7 tractor	Aggregated	Aggregated	DSL	12117.5392	1643190.233	0.005748734	153892.75	0.068456957	0.024744277	0.037185925	0.015389562	0	0	0.03600001	0.041284404	0.061740018	0.011532125
LOS ANGELES	2021	T7 tractor construction	Aggregated	Aggregated	DSL	3547.8887	246432.0056	0.000862147	16039.867	0.07949628	0.028734523	0.022016293	0.009111542	0	0	0.03600001	0.041284404	0.061740018	0.011532125
LOS ANGELES	2021	T7 utility	Aggregated	Aggregated	DSL	403.971203	8195.988304	2.86738E-05	4645.6688	0.007547665	0.00272816	0.002704266	0.001119173	0	0	0.03600001	0.041284404	0.061740018	0.011532125
								Composite			8.89E-04		1.45E-03		0.00E+00		1.36E-03		8.22E-04

APPENDIX B

On-Road Mobile Sources Emission Rate

On-Road Mobile Sources
Emission Rate

DSL Particulate Emissions (Southbound)

Number of Sources	28
Link Length (meters)	398.2
Volume/Baseline (VPH)	10
Pollutant Mass Emission Rate (gr/mi)	8.89E-04

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	6.1E-07
Pollutant Emission Rate/Source (gr/sec/source)	2.18E-08

DSL Particulate Emissions (Northbound)

Number of Sources	16
Link Length (meters)	216.2
Volume/Baseline (VPH)	197
Pollutant Mass Emission Rate (gr/mi)	8.89E-04

Emission Rate (gr/sec) = ((Mass Emission Rate x Volume/Baseline)/(1609.3 m/mile) x (3600 sec/hr)) x (Link Length)

Pollutant Emission Rate (gr/sec)	6.5E-06
Pollutant Emission Rate/Source (gr/sec/source)	4.08E-07

APPENDIX C

Cancer and Hazard Risk

Cancer and Hazard Risk

30-year Cancer Risk

*HARP - HRACalc v17023 12/18/2018 12:20:04 PM - Cancer Risk - Input File: C:\Users\ckirikian.MERIDIAN\Documents\5010 Azusa Canyon Road\AERMOD\5010Azusa30-yearHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE\	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RI!	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK	1ST_DRIVE	2ND_DRIVI	PASTURE_(	FISH_CONC	WATER_CONC
1			9901	DieselExhP	0.00248	2.15E-06	30YrCancer	*	2.15E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		0.00E+00	0.00E+00	0.00E+00

9-year Cancer Risk

*HARP - HRACalc v17023 12/18/2018 10:42:01 AM - Cancer Risk - Input File: C:\Users\ckirikian.MERIDIAN\Documents\5010 Azusa Canyon Road\AERMOD\5010Azusa9-yearHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE\	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RI!	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISI	PIG_RISK	CHICKEN_F	EGG_RISK	1ST_DRIVE	2ND_DRIVI	PASTURE_(	FISH_CONC	WATER_CONC
1			9901	DieselExhP	0.00248	1.52E-06	9YrCancer	*	1.52E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION		0.00E+00	0.00E+00	0.00E+00

Chronic Risk

*HARP - HRACalc v17023 12/18/2018 10:34:23 AM - Chronic Risk - Input File: C:\Users\ckirikian.MERIDIAN\Documents\5010 Azusa Canyon Road\AERMOD\5010AzusaHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE\	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP	SKIN	EYE	BONE/TEE1	ENDO	BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_C	MMILK_DC	WATER_DC	FISH_DOSE	CROP_DOS	BEEF_DOS	DAIRY_DO!	PIG_DOSE	CHICKEN_C	EGG_DOSE	1ST_DRIVE	2ND_DRIVI	3RD_DRIVE	PASTURE_(	FISH_CONC	WATER_CONC
1			9901	DieselExhP	0.00248	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	*	2.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION			0.00E+00	0.00E+00	0.00E+00

APPENDIX D

AERMOD Output

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 9.6.5
** Lakes Environmental Software Inc.
** Date: 12/18/2018
** File: C:\Users\ckirikian.MERIDIAN\Documents\5010 Azusa Canyon
Road\AERMOD\5010AzusaCanyon\5010AzusaCanyon.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\ckirikian.MERIDIAN\Documents\5010 Azusa Canyon
Road\AERMOD\
   MODELOPT CONC FLAT ELEV
   AVERTIME 1 24 ANNUAL
   URBANOPT 76402
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL 5010AzusaCanyon.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC South
** PREFIX
** Length of Side = 7.32
** Configuration = Separated
** Emission Rate = 2.18E-08
** Vertical Dimension = 2.94
** SZINIT = 1.37
** Nodes = 2
** 413021.165, 3774018.981, 136.74, 1.47, 6.73
** 413018.602, 3773620.823, 132.10, 1.47, 6.73
** ------------------------------------------------------------------------
   LOCATION L0001072     VOLUME   413021.141 3774015.321 137.38
   LOCATION L0001073     VOLUME   413021.048 3774000.846 136.51
   LOCATION L0001074     VOLUME   413020.955 3773986.370 135.68
   LOCATION L0001075     VOLUME   413020.862 3773971.895 134.85
   LOCATION L0001076     VOLUME   413020.769 3773957.419 134.02
   LOCATION L0001077     VOLUME   413020.675 3773942.944 133.18
   LOCATION L0001078     VOLUME   413020.582 3773928.468 132.35
   LOCATION L0001079     VOLUME   413020.489 3773913.993 132.09
   LOCATION L0001080     VOLUME   413020.396 3773899.517 132.25
```

```
   LOCATION L0001081     VOLUME   413020.303 3773885.042 132.40
   LOCATION L0001082     VOLUME   413020.209 3773870.566 132.56
   LOCATION L0001083     VOLUME   413020.116 3773856.091 132.72
   LOCATION L0001084     VOLUME   413020.023 3773841.615 132.87
   LOCATION L0001085     VOLUME   413019.930 3773827.140 132.94
   LOCATION L0001086     VOLUME   413019.837 3773812.664 132.62
   LOCATION L0001087     VOLUME   413019.744 3773798.189 132.31
   LOCATION L0001088     VOLUME   413019.650 3773783.713 132.00
   LOCATION L0001089     VOLUME   413019.557 3773769.238 131.69
   LOCATION L0001090     VOLUME   413019.464 3773754.762 131.37
   LOCATION L0001091     VOLUME   413019.371 3773740.287 131.06
   LOCATION L0001092     VOLUME   413019.278 3773725.811 131.16
   LOCATION L0001093     VOLUME   413019.184 3773711.336 131.36
   LOCATION L0001094     VOLUME   413019.091 3773696.860 131.56
   LOCATION L0001095     VOLUME   413018.998 3773682.384 131.76
   LOCATION L0001096     VOLUME   413018.905 3773667.909 131.96
   LOCATION L0001097     VOLUME   413018.812 3773653.433 132.17
   LOCATION L0001098     VOLUME   413018.718 3773638.958 131.96
   LOCATION L0001099     VOLUME   413018.625 3773624.482 131.23
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Separated Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC North
** PREFIX
** Length of Side = 7.32
** Configuration = Separated
** Emission Rate = 6.5E-06
** Vertical Dimension = 2.94
** SZINIT = 1.37
** Nodes = 2
** 413023.728, 3774198.409, 142.27, 1.47, 6.48
** 413028.855, 3774414.577, 131.18, 1.47, 6.48
** ----------------------------------------------------------------------
   LOCATION L0001040     VOLUME   413023.815 3774202.068 141.66
   LOCATION L0001041     VOLUME   413024.145 3774215.991 141.28
   LOCATION L0001042     VOLUME   413024.475 3774229.915 140.91
   LOCATION L0001043     VOLUME   413024.806 3774243.838 140.53
   LOCATION L0001044     VOLUME   413025.136 3774257.761 140.16
   LOCATION L0001045     VOLUME   413025.466 3774271.685 139.78
   LOCATION L0001046     VOLUME   413025.796 3774285.608 139.40
   LOCATION L0001047     VOLUME   413026.126 3774299.531 138.50
   LOCATION L0001048     VOLUME   413026.457 3774313.454 137.15
   LOCATION L0001049     VOLUME   413026.787 3774327.378 135.81
   LOCATION L0001050     VOLUME   413027.117 3774341.301 134.48
   LOCATION L0001051     VOLUME   413027.447 3774355.224 133.15
   LOCATION L0001052     VOLUME   413027.777 3774369.148 131.82
   LOCATION L0001053     VOLUME   413028.108 3774383.071 130.51
   LOCATION L0001054     VOLUME   413028.438 3774396.994 131.98
   LOCATION L0001055     VOLUME   413028.768 3774410.918 133.75
** End of LINE VOLUME Source ID = SLINE2
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0001072     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001073     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001074     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001075     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001076     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001077     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001078     0.000000000779      1.47      6.73      1.37
```

```
   SRCPARAM L0001079     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001080     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001081     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001082     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001083     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001084     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001085     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001086     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001087     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001088     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001089     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001090     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001091     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001092     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001093     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001094     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001095     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001096     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001097     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001098     0.000000000779      1.47      6.73      1.37
   SRCPARAM L0001099     0.000000000779      1.47      6.73      1.37
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0001040     0.0000004062      1.47      6.48      1.37
   SRCPARAM L0001041     0.0000004062      1.47      6.48      1.37
   SRCPARAM L0001042     0.0000004062      1.47      6.48      1.37
   SRCPARAM L0001043     0.0000004062      1.47      6.48      1.37
   SRCPARAM L0001044     0.0000004062      1.47      6.48      1.37
   SRCPARAM L0001045     0.0000004062      1.47      6.48      1.37
   SRCPARAM L0001046     0.0000004062      1.47      6.48      1.37
   SRCPARAM L0001047     0.0000004062      1.47      6.48      1.37
   SRCPARAM L0001048     0.0000004062      1.47      6.48      1.37
   SRCPARAM L0001049     0.0000004062      1.47      6.48      1.37
   SRCPARAM L0001050     0.0000004062      1.47      6.48      1.37
   SRCPARAM L0001051     0.0000004062      1.47      6.48      1.37
   SRCPARAM L0001052     0.0000004062      1.47      6.48      1.37
   SRCPARAM L0001053     0.0000004062      1.47      6.48      1.37
   SRCPARAM L0001054     0.0000004062      1.47      6.48      1.37
   SRCPARAM L0001055     0.0000004062      1.47      6.48      1.37
** ------------------------------------------------------------------
   URBANSRC L0001072
   URBANSRC L0001073
   URBANSRC L0001074
   URBANSRC L0001075
   URBANSRC L0001076
   URBANSRC L0001077
   URBANSRC L0001078
   URBANSRC L0001079
   URBANSRC L0001080
   URBANSRC L0001081
   URBANSRC L0001082
   URBANSRC L0001083
   URBANSRC L0001084
   URBANSRC L0001085
   URBANSRC L0001086
   URBANSRC L0001087
   URBANSRC L0001088
   URBANSRC L0001089
   URBANSRC L0001090
   URBANSRC L0001091
```

```
   URBANSRC L0001092
   URBANSRC L0001093
   URBANSRC L0001094
   URBANSRC L0001095
   URBANSRC L0001096
   URBANSRC L0001097
   URBANSRC L0001098
   URBANSRC L0001099
   URBANSRC L0001040
   URBANSRC L0001041
   URBANSRC L0001042
   URBANSRC L0001043
   URBANSRC L0001044
   URBANSRC L0001045
   URBANSRC L0001046
   URBANSRC L0001047
   URBANSRC L0001048
   URBANSRC L0001049
   URBANSRC L0001050
   URBANSRC L0001051
   URBANSRC L0001052
   URBANSRC L0001053
   URBANSRC L0001054
   URBANSRC L0001055
   SRCGROUP ALL
SO FINISHED
**
**********************************
** AERMOD Receptor Pathway
**********************************
**
**
RE STARTING
   INCLUDED 5010AzusaCanyon.rou
RE FINISHED
**
**********************************
** AERMOD Meteorology Pathway
**********************************
**
**
ME STARTING
   SURFFILE ..\AZUS_V9_ADJU\AZUS_v9.SFC
   PROFFILE ..\AZUS_V9_ADJU\AZUS_v9.PFL
   SURFDATA 3179 2012 34.14 -117.92
   UAIRDATA 3190 2012
   SITEDATA 99999 2012
   PROFBASE 189.0 METERS
ME FINISHED
**
**********************************
** AERMOD Output Pathway
**********************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
```

```
   PLOTFILE 1 ALL 1ST 5010AzusaCanyon.AD\01H1GALL.PLT 31
   PLOTFILE 24 ALL 1ST 5010AzusaCanyon.AD\24H1GALL.PLT 32
   PLOTFILE ANNUAL ALL 5010AzusaCanyon.AD\AN00GALL.PLT 33
   SUMMFILE 5010AzusaCanyon.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     227       MEOPEN: THRESH_1MIN 1-min ASOS wind speed
threshold used          0.50
 ME W187     227       MEOPEN: ADJ_U* Option for Stable Low Winds used in
AERMET

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************
```

```
 *** AERMOD - VERSION  18081 ***   ***
C:\Users\ckirikian.MERIDIAN\Documents\5010 Azusa Canyon Road\AERMOD\ ***
12/18/18
 *** AERMET - VERSION  16216 ***   ***
***        09:50:37

PAGE   1
 *** MODELOPTs:    NonDFAULT  CONC  FLAT and  ELEV  URBAN  ADJ_U*

                                              ***     MODEL SETUP OPTIONS
SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for    44 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =     76402.0 ;  Urban Roughness Length =  1.000 m

 **Model Allows User-Specified Options:
         1. Stack-tip Downwash.
         2. Allow FLAT/ELEV Terrain Option by Source,
            with      0 FLAT and     44 ELEV Source(s).
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Full Conversion Assumed for NO2.
         6. Urban Roughness Length of 1.0 Meter Used.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* option for SBL in AERMET
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  DPM

 **Model Calculates  2 Short Term Average(s) of:   1-HR  24-HR
     and Calculates ANNUAL Averages

 **This Run Includes:     44 Source(s);       1 Source Group(s); and
166 Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     44 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.
```

```
 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor
(RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting
(PLOTFILE Keyword)
          Model Outputs Separate Summary File of High Ranked Values
(SUMMFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for
Calm Hours
                                                                  m for
Missing Hours
                                                                  b for
Both Calm and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   189.00 ;
Decay Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC
;  Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.5 MB of RAM.

 **Input Runstream File:          aermod.inp
 **Output Print File:             aermod.out

 **Detailed Error/Message File:   5010AzusaCanyon.err
 **File for Summary of Results:   5010AzusaCanyon.sum
```

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC) SCALAR VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0001072	0	0.77900E-09	413021.1	3774015.3	137.4	1.47	6.73	1.37	YES
L0001073	0	0.77900E-09	413021.0	3774000.8	136.5	1.47	6.73	1.37	YES
L0001074	0	0.77900E-09	413021.0	3773986.4	135.7	1.47	6.73	1.37	YES
L0001075	0	0.77900E-09	413020.9	3773971.9	134.9	1.47	6.73	1.37	YES
L0001076	0	0.77900E-09	413020.8	3773957.4	134.0	1.47	6.73	1.37	YES
L0001077	0	0.77900E-09	413020.7	3773942.9	133.2	1.47	6.73	1.37	YES
L0001078	0	0.77900E-09	413020.6	3773928.5	132.4	1.47	6.73	1.37	YES
L0001079	0	0.77900E-09	413020.5	3773914.0	132.1	1.47	6.73	1.37	YES
L0001080	0	0.77900E-09	413020.4	3773899.5	132.2	1.47	6.73	1.37	YES
L0001081	0	0.77900E-09	413020.3	3773885.0	132.4	1.47	6.73	1.37	YES
L0001082	0	0.77900E-09	413020.2	3773870.6	132.6	1.47	6.73	1.37	YES
L0001083	0	0.77900E-09	413020.1	3773856.1	132.7	1.47	6.73	1.37	YES
L0001084	0	0.77900E-09	413020.0	3773841.6	132.9	1.47	6.73	1.37	YES
L0001085	0	0.77900E-09	413019.9	3773827.1	132.9	1.47	6.73	1.37	YES
L0001086	0	0.77900E-09	413019.8	3773812.7	132.6	1.47	6.73	1.37	YES
L0001087	0	0.77900E-09	413019.7	3773798.2	132.3	1.47	6.73	1.37	YES
L0001088	0	0.77900E-09	413019.6	3773783.7	132.0	1.47	6.73	1.37	YES
L0001089	0	0.77900E-09	413019.6	3773769.2	131.7	1.47	6.73	1.37	YES
L0001090	0	0.77900E-09	413019.5	3773754.8	131.4	1.47	6.73	1.37	YES

L0001091		0	0.77900E-09	413019.4	3773740.3	131.1	1.47	
6.73	1.37	YES						
L0001092		0	0.77900E-09	413019.3	3773725.8	131.2	1.47	
6.73	1.37	YES						
L0001093		0	0.77900E-09	413019.2	3773711.3	131.4	1.47	
6.73	1.37	YES						
L0001094		0	0.77900E-09	413019.1	3773696.9	131.6	1.47	
6.73	1.37	YES						
L0001095		0	0.77900E-09	413019.0	3773682.4	131.8	1.47	
6.73	1.37	YES						
L0001096		0	0.77900E-09	413018.9	3773667.9	132.0	1.47	
6.73	1.37	YES						
L0001097		0	0.77900E-09	413018.8	3773653.4	132.2	1.47	
6.73	1.37	YES						
L0001098		0	0.77900E-09	413018.7	3773639.0	132.0	1.47	
6.73	1.37	YES						
L0001099		0	0.77900E-09	413018.6	3773624.5	131.2	1.47	
6.73	1.37	YES						
L0001040		0	0.40620E-06	413023.8	3774202.1	141.7	1.47	
6.48	1.37	YES						
L0001041		0	0.40620E-06	413024.1	3774216.0	141.3	1.47	
6.48	1.37	YES						
L0001042		0	0.40620E-06	413024.5	3774229.9	140.9	1.47	
6.48	1.37	YES						
L0001043		0	0.40620E-06	413024.8	3774243.8	140.5	1.47	
6.48	1.37	YES						
L0001044		0	0.40620E-06	413025.1	3774257.8	140.2	1.47	
6.48	1.37	YES						
L0001045		0	0.40620E-06	413025.5	3774271.7	139.8	1.47	
6.48	1.37	YES						
L0001046		0	0.40620E-06	413025.8	3774285.6	139.4	1.47	
6.48	1.37	YES						
L0001047		0	0.40620E-06	413026.1	3774299.5	138.5	1.47	
6.48	1.37	YES						
L0001048		0	0.40620E-06	413026.5	3774313.5	137.2	1.47	
6.48	1.37	YES						
L0001049		0	0.40620E-06	413026.8	3774327.4	135.8	1.47	
6.48	1.37	YES						
L0001050		0	0.40620E-06	413027.1	3774341.3	134.5	1.47	
6.48	1.37	YES						
L0001051		0	0.40620E-06	413027.4	3774355.2	133.2	1.47	
6.48	1.37	YES						

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0001052	0	0.40620E-06	413027.8	3774369.1	131.8	1.47	6.48	1.37	YES
L0001053	0	0.40620E-06	413028.1	3774383.1	130.5	1.47	6.48	1.37	YES
L0001054	0	0.40620E-06	413028.4	3774397.0	132.0	1.47	6.48	1.37	YES
L0001055	0	0.40620E-06	413028.8	3774410.9	133.8	1.47	6.48	1.37	YES

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	L0001072 , L0001073 , L0001074 , L0001075 , L0001076 , L0001077 , L0001078 , L0001079 ,
	L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 , L0001086 , L0001087 ,
	L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 , L0001094 , L0001095 ,
	L0001096 , L0001097 , L0001098 , L0001099 , L0001040 , L0001041 , L0001042 , L0001043 ,
	L0001044 , L0001045 , L0001046 , L0001047 , L0001048 , L0001049 , L0001050 , L0001051 ,
	L0001052 , L0001053 , L0001054 , L0001055 ,

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	76402.	L0001072 , L0001073 , L0001074 , L0001075 , L0001076 , L0001077 , L0001078 , L0001079 ,
		L0001080 , L0001081 , L0001082 , L0001083 , L0001084 , L0001085 , L0001086 , L0001087 ,
		L0001088 , L0001089 , L0001090 , L0001091 , L0001092 , L0001093 , L0001094 , L0001095 ,
		L0001096 , L0001097 , L0001098 , L0001099 , L0001040 , L0001041 , L0001042 , L0001043 ,
		L0001044 , L0001045 , L0001046 , L0001047 , L0001048 , L0001049 , L0001050 , L0001051 ,
		L0001052 , L0001053 , L0001054 , L0001055 ,

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(412985.6, 3774199.2, 143.0, 1646.0, 0.0); (412969.1, 3774199.0, 142.8, 1646.0, 0.0);
(413000.1, 3774199.2, 142.7, 1646.0, 0.0); (412982.3, 3774213.7, 142.6, 1646.0, 0.0);
(412952.4, 3774200.5, 142.5, 1646.0, 0.0); (412933.3, 3774198.1, 142.2, 1646.0, 0.0);
(412947.6, 3774214.8, 142.4, 1646.0, 0.0); (412943.0, 3774224.9, 142.3, 1646.0, 0.0);
(412921.0, 3774198.1, 142.1, 1646.0, 0.0); (412903.6, 3774197.7, 141.2, 1646.0, 0.0);
(412896.2, 3774212.8, 141.1, 1646.0, 0.0); (412880.3, 3774215.0, 140.2, 1646.0, 0.0);
(412883.4, 3774199.2, 140.0, 1646.0, 0.0); (412997.1, 3774159.5, 145.6, 1646.0, 0.0);
(412997.1, 3774142.4, 146.7, 1646.0, 0.0); (412993.5, 3774109.1, 149.0, 1646.0, 0.0);
(412997.5, 3774085.8, 145.8, 1646.0, 0.0); (412965.6, 3774156.3, 144.3, 1646.0, 0.0);
(412979.2, 3774148.4, 145.5, 1646.0, 0.0); (412948.8, 3774158.8, 143.2, 1646.0, 0.0);
(412933.8, 3774157.8, 142.3, 1646.0, 0.0); (412918.1, 3774157.4, 141.3, 1646.0, 0.0);
(412898.4, 3774156.0, 139.8, 1646.0, 0.0); (412884.1, 3774158.5, 138.8, 1646.0, 0.0);
(412884.1, 3774130.2, 138.0, 1646.0, 0.0); (412886.2, 3774113.8, 137.7, 1646.0, 0.0);
(412914.1, 3774123.8, 140.4, 1646.0, 0.0); (412930.2, 3774126.3, 142.0, 1646.0, 0.0);
(412948.5, 3774114.8, 144.0, 1646.0, 0.0); (412955.3, 3774140.9, 144.0, 1646.0, 0.0);
(412927.0, 3774141.7, 141.8, 1646.0, 0.0); (412967.1, 3774123.8, 145.7, 1646.0, 0.0);
(412992.1, 3774066.9, 142.6, 1646.0, 0.0); (412989.2, 3774053.7, 140.2, 1646.0, 0.0);
(412991.4, 3774039.3, 138.1, 1646.0, 0.0); (412961.3, 3774046.1, 136.4, 1646.0, 0.0);
(412943.5, 3774045.1, 134.6, 1646.0, 0.0); (412929.1, 3774044.4, 133.2, 1646.0, 0.0);
(412916.3, 3774043.6, 131.9, 1646.0, 0.0); (412900.2, 3774037.2, 130.5, 1646.0, 0.0);
(412882.3, 3774040.1, 130.4, 1646.0, 0.0); (412880.1, 3774050.8, 131.4, 1646.0, 0.0);
(412883.0, 3774073.3, 133.7, 1646.0, 0.0); (412883.7, 3774085.8, 135.0, 1646.0, 0.0);

(412957.4, 3774089.4, 142.5, 1646.0, 0.0); (412976.7, 3774071.9, 141.9, 1646.0, 0.0);
(412948.1, 3774073.3, 139.1, 1646.0, 0.0); (412930.9, 3774070.5, 136.9, 1646.0, 0.0);
(412959.6, 3774071.9, 140.1, 1646.0, 0.0); (412920.2, 3774065.5, 135.2, 1646.0, 0.0);
(412913.8, 3774076.2, 135.9, 1646.0, 0.0); (412898.4, 3774064.0, 133.6, 1646.0, 0.0);
(412893.7, 3774057.6, 132.6, 1646.0, 0.0); (412995.0, 3774001.7, 134.2, 1646.0, 0.0);
(412973.6, 3774000.2, 132.7, 1646.0, 0.0); (412950.7, 3774003.8, 131.2, 1646.0, 0.0);
(412948.5, 3773988.1, 131.3, 1646.0, 0.0); (412975.7, 3773980.2, 132.7, 1646.0, 0.0);
(412997.5, 3773982.0, 133.9, 1646.0, 0.0); (412996.8, 3773968.4, 133.4, 1646.0, 0.0);
(412972.9, 3773967.0, 132.5, 1646.0, 0.0); (412951.0, 3773970.2, 131.8, 1646.0, 0.0);
(412950.3, 3773953.0, 132.0, 1646.0, 0.0); (412951.0, 3773938.0, 132.3, 1646.0, 0.0);
(412950.0, 3773922.6, 132.5, 1646.0, 0.0); (412949.2, 3773906.5, 132.6, 1646.0, 0.0);
(412950.3, 3773889.3, 132.7, 1646.0, 0.0); (412949.2, 3773872.9, 132.8, 1646.0, 0.0);
(412948.9, 3773856.4, 132.9, 1646.0, 0.0); (412949.2, 3773841.0, 132.9, 1646.0, 0.0);
(412947.1, 3773822.1, 132.7, 1646.0, 0.0); (412948.2, 3773806.0, 132.2, 1646.0, 0.0);
(412948.5, 3773789.5, 131.7, 1646.0, 0.0); (412948.2, 3773775.2, 131.2, 1646.0, 0.0);
(412946.8, 3773754.8, 130.5, 1646.0, 0.0); (412949.6, 3773739.1, 130.1, 1646.0, 0.0);
(412949.2, 3773720.5, 129.6, 1646.0, 0.0); (412948.2, 3773704.0, 129.1, 1646.0, 0.0);
(412991.8, 3773679.0, 131.1, 1646.0, 0.0); (412977.5, 3773690.1, 130.5, 1646.0, 0.0);
(412992.2, 3773696.5, 131.1, 1646.0, 0.0); (412991.5, 3773710.8, 131.1, 1646.0, 0.0);
(412993.2, 3773725.1, 131.0, 1646.0, 0.0); (412968.2, 3773725.9, 130.4, 1646.0, 0.0);
(412990.4, 3773744.1, 131.1, 1646.0, 0.0); (412992.2, 3773759.1, 131.5, 1646.0, 0.0);
(412980.0, 3773763.1, 131.4, 1646.0, 0.0); (412987.2, 3773774.9, 131.8, 1646.0, 0.0);
(412990.8, 3773790.6, 132.1, 1646.0, 0.0); (412991.5, 3773807.8, 132.5, 1646.0, 0.0);

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(412969.3, 3773770.9, 131.4, 1646.0, 0.0); (412989.7, 3773825.7, 132.9, 1646.0, 0.0);
(412973.9, 3773804.6, 132.3, 1646.0, 0.0); (412972.1, 3773819.2, 132.7, 1646.0, 0.0);
(412980.4, 3773835.7, 133.0, 1646.0, 0.0); (412992.9, 3773840.7, 132.9, 1646.0, 0.0);
(412991.8, 3773857.1, 132.7, 1646.0, 0.0); (412992.9, 3773870.7, 132.6, 1646.0, 0.0);
(412979.3, 3773859.3, 132.7, 1646.0, 0.0); (412968.6, 3773869.3, 132.7, 1646.0, 0.0);
(412970.4, 3773888.6, 132.5, 1646.0, 0.0); (412970.4, 3773905.4, 132.4, 1646.0, 0.0);
(412969.3, 3773916.2, 132.3, 1646.0, 0.0); (412969.6, 3773938.4, 132.3, 1646.0, 0.0);
(412992.9, 3773889.7, 132.4, 1646.0, 0.0); (412993.2, 3773904.7, 132.2, 1646.0, 0.0);
(412993.2, 3773921.5, 132.0, 1646.0, 0.0); (412994.3, 3773934.8, 132.3, 1646.0, 0.0);
(412991.1, 3773950.5, 132.7, 1646.0, 0.0); (412981.5, 3773964.1, 132.7, 1646.0, 0.0);
(412994.1, 3773660.7, 131.3, 1646.0, 0.0); (412974.2, 3773643.4, 129.7, 1646.0, 0.0);
(412960.5, 3773646.0, 128.7, 1646.0, 0.0); (412944.5, 3773645.6, 127.2, 1646.0, 0.0);
(412930.4, 3773647.1, 126.0, 1646.0, 0.0); (412913.7, 3773648.0, 124.5, 1646.0, 0.0);
(412901.0, 3773648.2, 123.1, 1646.0, 0.0); (412880.3, 3773649.1, 120.5, 1646.0, 0.0);
(412869.4, 3773649.3, 119.1, 1646.0, 0.0); (412938.6, 3773686.7, 128.0, 1646.0, 0.0);
(412920.8, 3773682.7, 126.7, 1646.0, 0.0); (412903.6, 3773684.7, 125.6, 1646.0, 0.0);
(412887.4, 3773686.0, 124.5, 1646.0, 0.0); (412869.8, 3773684.9, 123.1, 1646.0, 0.0);
(412906.4, 3773722.9, 128.1, 1646.0, 0.0); (412873.7, 3773722.0, 127.2, 1646.0, 0.0);
(412873.9, 3773740.9, 129.1, 1646.0, 0.0); (412907.3, 3773741.3, 129.1, 1646.0, 0.0);
(412906.2, 3773756.7, 129.8, 1646.0, 0.0); (412874.3, 3773757.8, 129.8, 1646.0, 0.0);
(412877.0, 3773774.3, 130.5, 1646.0, 0.0); (412905.8, 3773771.2, 130.4, 1646.0, 0.0);
(412907.5, 3773788.6, 131.2, 1646.0, 0.0); (412874.7, 3773789.6, 131.2, 1646.0, 0.0);

```
     ( 412874.9, 3773806.9,     131.9,    1646.0,       0.0);         (
412908.0, 3773806.2,     131.9,    1646.0,       0.0);
     ( 412908.3, 3773822.2,     132.6,    1646.0,       0.0);         (
412875.2, 3773822.2,     132.6,    1646.0,       0.0);
     ( 412907.0, 3773839.0,     133.0,    1646.0,       0.0);         (
412877.0, 3773838.2,     133.0,    1646.0,       0.0);
     ( 412907.5, 3773855.0,     133.0,    1646.0,       0.0);         (
412876.7, 3773854.8,     133.1,    1646.0,       0.0);
     ( 412877.3, 3773871.6,     133.2,    1646.0,       0.0);         (
412908.3, 3773871.8,     133.0,    1646.0,       0.0);
     ( 412908.0, 3773888.4,     133.0,    1646.0,       0.0);         (
412876.5, 3773888.4,     133.3,    1646.0,       0.0);
     ( 412877.0, 3773906.5,     133.4,    1646.0,       0.0);         (
412909.3, 3773906.2,     133.0,    1646.0,       0.0);
     ( 412878.0, 3773922.8,     133.4,    1646.0,       0.0);         (
412908.3, 3773922.2,     133.0,    1646.0,       0.0);
     ( 412909.3, 3773940.1,     132.1,    1646.0,       0.0);         (
412909.8, 3773954.5,     131.3,    1646.0,       0.0);
     ( 412877.0, 3773954.8,     131.6,    1646.0,       0.0);         (
412876.7, 3773938.5,     132.6,    1646.0,       0.0);
     ( 412876.5, 3773972.6,     130.6,    1646.0,       0.0);         (
412909.1, 3773972.9,     130.3,    1646.0,       0.0);
     ( 412908.0, 3773989.7,     129.4,    1646.0,       0.0);         (
412875.7, 3773987.1,     129.7,    1646.0,       0.0);
     ( 412876.7, 3774005.0,     128.7,    1646.0,       0.0);         (
412908.8, 3774004.2,     128.6,    1646.0,       0.0);
     ( 413199.7, 3774218.5,     131.9,    1646.0,       0.0);         (
413034.9, 3774218.5,     140.8,    1646.0,       0.0);
     ( 413034.9, 3774013.1,     138.6,    1646.0,       0.0);         (
413133.8, 3774010.6,     143.3,    1646.0,       0.0);
     ( 413133.8, 3773917.2,     130.3,    1646.0,       0.0);         (
413200.0, 3773917.1,     128.6,    1646.0,       0.0);
```

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH
CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND
80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0001072	413034.9	3774013.1	-0.50
L0001041	413034.9	3774218.5	-2.85

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\AZUS_V9_ADJU\AZUS_v9.SFC
Met Version: 16216
Profile file: ..\AZUS_V9_ADJU\AZUS_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 3179 Upper air station no.: 3190
Name: 34.14 Name: UNKNOWN
Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-21.3	0.224	-9.000	-9.000	-999.	255.	55.3	0.36	1.68	1.00	1.80	20.	9.1	293.1	5.5
12	01	01	1	02	-32.6	0.342	-9.000	-9.000	-999.	481.	128.9	0.36	1.68	1.00	2.70	99.	9.1	293.1	5.5
12	01	01	1	03	-26.4	0.277	-9.000	-9.000	-999.	351.	84.1	0.36	1.68	1.00	2.20	14.	9.1	292.0	5.5
12	01	01	1	04	-32.6	0.342	-9.000	-9.000	-999.	480.	128.9	0.36	1.68	1.00	2.70	10.	9.1	292.5	5.5
12	01	01	1	05	-26.4	0.277	-9.000	-9.000	-999.	351.	84.1	0.36	1.68	1.00	2.20	12.	9.1	292.5	5.5
12	01	01	1	06	-21.6	0.224	-9.000	-9.000	-999.	256.	55.2	0.36	1.68	1.00	1.80	118.	9.1	289.2	5.5
12	01	01	1	07	-26.6	0.277	-9.000	-9.000	-999.	349.	84.1	0.36	1.68	1.00	2.20	64.	9.1	290.9	5.5
12	01	01	1	08	-1.3	0.062	-9.000	-9.000	-999.	124.	16.5	0.36	1.68	0.55	0.40	36.	9.1	290.9	5.5
12	01	01	1	09	38.1	0.160	0.348	0.008	39.	153.	-9.5	0.36	1.68	0.32	0.90	124.	9.1	293.8	5.5
12	01	01	1	10	99.5	0.179	0.693	0.007	119.	181.	-5.1	0.36	1.68	0.25	0.90	21.	9.1	298.1	5.5
12	01	01	1	11	142.6	0.494	1.086	0.005	321.	832.	-75.2	0.36	1.68	0.22	3.60	141.	9.1	299.9	5.5
12	01	01	1	12	162.8	0.442	1.385	0.005	582.	709.	-47.3	0.36	1.68	0.21	3.10	122.	9.1	299.9	5.5
12	01	01	1	13	164.4	0.298	1.634	0.005	946.	405.	-14.3	0.36	1.68	0.21	1.80	114.	9.1	300.9	5.5
12	01	01	1	14	142.7	0.293	1.718	0.005	1265.	382.	-15.8	0.36	1.68	0.22	1.80	93.	9.1	302.5	5.5
12	01	01	1	15	96.7	0.283	1.575	0.005	1438.	361.	-20.7	0.36	1.68	0.26	1.80	110.	9.1	303.8	5.5

```
 12 01 01   1 16   41.5  0.207  1.201  0.005 1485.  228.    -18.9  0.36
1.68   0.35    1.30  113.    9.1  304.2    5.5
 12 01 01   1 17  -37.8  0.464 -9.000 -9.000 -999.  757.    236.3  0.36
1.68   0.62    3.60  251.    9.1  300.9    5.5
 12 01 01   1 18  -26.1  0.277 -9.000 -9.000 -999.  379.     84.2  0.36
1.68   1.00    2.20    8.    9.1  296.4    5.5
 12 01 01   1 19 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.36
1.68   1.00  999.00  999.   -9.0  295.9    5.5
 12 01 01   1 20   -5.7  0.107 -9.000 -9.000 -999.   84.     19.3  0.36
1.68   1.00    0.90   35.    9.1  295.4    5.5
 12 01 01   1 21  -21.3  0.224 -9.000 -9.000 -999.  255.     55.3  0.36
1.68   1.00    1.80  213.    9.1  293.8    5.5
 12 01 01   1 22  -21.3  0.224 -9.000 -9.000 -999.  255.     55.3  0.36
1.68   1.00    1.80   52.    9.1  293.8    5.5
 12 01 01   1 23  -26.3  0.277 -9.000 -9.000 -999.  349.     84.2  0.36
1.68   1.00    2.20   58.    9.1  293.8    5.5
 12 01 01   1 24  -21.4  0.224 -9.000 -9.000 -999.  256.     55.3  0.36
1.68   1.00    1.80   83.    9.1  292.5    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    5.5 0 -999.  -99.00   293.2   99.0  -99.00  -99.00
 12 01 01 01    9.1 1   20.    1.80  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
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*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0001072 ,
L0001073 , L0001074 , L0001075 , L0001076 ,
L0001077 , L0001078 , L0001079 , L0001080 ,
L0001081 , L0001082 , L0001083 , L0001084 ,
L0001085 , L0001086 , L0001087 , L0001088 ,
L0001089 , L0001090 , L0001091 , L0001092 ,
L0001093 , L0001094 , L0001095 , L0001096 ,
L0001097 , L0001098 , L0001099 , . . . ,

*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

** CONC OF DPM IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412985.64	3774199.21	0.00091	412969.10	3774199.01	0.00063
413000.08	3774199.23	0.00145	412982.28	3774213.73	0.00097
412952.41	3774200.55	0.00049	412933.29	3774198.13	0.00037
412947.57	3774214.83	0.00049	412942.96	3774224.93	0.00048
412920.99	3774198.13	0.00031	412903.64	3774197.69	0.00026
412896.17	3774212.85	0.00025	412880.35	3774215.04	0.00021
412883.43	3774199.23	0.00021	412997.12	3774159.54	0.00052
412997.12	3774142.37	0.00040	412993.54	3774109.11	0.00025
412997.47	3774085.85	0.00018	412965.64	3774156.32	0.00037
412979.23	3774148.45	0.00039	412948.82	3774158.83	0.00033
412933.80	3774157.75	0.00028	412918.06	3774157.40	0.00024
412898.39	3774155.97	0.00020	412884.08	3774158.47	0.00018
412884.08	3774130.21	0.00015	412886.22	3774113.76	0.00014
412914.13	3774123.77	0.00019	412930.22	3774126.28	0.00022
412948.47	3774114.83	0.00022	412955.26	3774140.94	0.00029

412927.00 3774141.66 0.00024
412967.07 3774123.77 0.00027
412992.11 3774066.90 0.00015
412989.25 3774053.66 0.00013
412991.39 3774039.35 0.00012
412961.34 3774046.15 0.00012
412943.46 3774045.07 0.00011
412929.15 3774044.36 0.00011
412916.27 3774043.64 0.00010
412900.18 3774037.20 0.00010
412882.29 3774040.07 0.00009
412880.14 3774050.80 0.00010
412883.01 3774073.33 0.00011
412883.72 3774085.85 0.00012
412957.41 3774089.43 0.00018
412976.73 3774071.90 0.00016
412948.11 3774073.33 0.00015
412930.94 3774070.47 0.00014
412959.56 3774071.90 0.00015
412920.21 3774065.46 0.00012
412913.77 3774076.20 0.00013
412898.39 3774064.03 0.00011
412893.74 3774057.59 0.00011
412995.04 3774001.68 0.00009
412973.58 3774000.25 0.00009
412950.68 3774003.82 0.00009
412948.53 3773988.08 0.00008
412975.72 3773980.21 0.00008
412997.54 3773982.00 0.00008
412996.83 3773968.41 0.00007
412972.86 3773966.98 0.00007
412951.04 3773970.20 0.00007
412950.32 3773953.02 0.00007
412951.04 3773938.00 0.00006
412949.96 3773922.62 0.00006
412949.25 3773906.52 0.00005
412950.32 3773889.35 0.00005
412949.25 3773872.89 0.00005
412948.89 3773856.44 0.00004
412949.25 3773841.05 0.00004
412947.10 3773822.09 0.00004
412948.18 3773805.99 0.00004
412948.53 3773789.54 0.00003
412948.18 3773775.23 0.00003
412946.75 3773754.84 0.00003
412949.61 3773739.10 0.00003
412949.25 3773720.49 0.00003
412948.18 3773704.04 0.00003
412991.82 3773679.00 0.00003
412977.51 3773690.09 0.00003

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0001072 ,
L0001073 , L0001074 , L0001075 , L0001076 ,
L0001077 , L0001078 , L0001079 , L0001080 ,
L0001081 , L0001082 , L0001083 , L0001084 ,
L0001085 , L0001086 , L0001087 , L0001088 ,
L0001089 , L0001090 , L0001091 , L0001092 ,
L0001093 , L0001094 , L0001095 , L0001096 ,
L0001097 , L0001098 , L0001099 , . . . ,

*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

** CONC OF DPM IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412992.18	3773696.53	0.00003	412991.46	3773710.83	0.00003
412993.25	3773725.14	0.00003	412968.21	3773725.86	0.00003
412990.39	3773744.10	0.00003	412992.18	3773759.13	0.00003
412980.02	3773763.07	0.00003	412987.17	3773774.87	0.00003
412990.75	3773790.61	0.00004	412991.46	3773807.78	0.00004
412969.28	3773770.94	0.00003	412989.67	3773825.67	0.00004
412973.93	3773804.56	0.00004	412972.14	3773819.23	0.00004
412980.37	3773835.69	0.00004	412992.89	3773840.69	0.00004
412991.82	3773857.15	0.00005	412992.89	3773870.74	0.00005
412979.30	3773859.30	0.00004	412968.57	3773869.31	0.00005
412970.36	3773888.63	0.00005	412970.36	3773905.45	0.00005
412969.28	3773916.18	0.00006	412969.64	3773938.36	0.00006
412992.89	3773889.70	0.00005	412993.25	3773904.73	0.00005
412993.25	3773921.54	0.00006	412994.32	3773934.78	0.00006
412991.11	3773950.52	0.00007	412981.45	3773964.11	0.00007

412994.15 3773660.73 0.00003
412974.16 3773643.38 0.00002
412960.54 3773646.01 0.00002
412944.50 3773645.57 0.00002
412930.44 3773647.11 0.00002
412913.74 3773647.99 0.00002
412901.00 3773648.21 0.00002
412880.34 3773649.09 0.00002
412869.36 3773649.31 0.00002
412938.57 3773686.66 0.00002
412920.77 3773682.70 0.00002
412903.63 3773684.68 0.00002
412887.38 3773686.00 0.00002
412869.80 3773684.90 0.00002
412906.42 3773722.89 0.00003
412873.68 3773722.01 0.00003
412873.90 3773740.91 0.00003
412907.30 3773741.35 0.00003
412906.20 3773756.73 0.00003
412874.34 3773757.83 0.00003
412876.98 3773774.31 0.00003
412905.76 3773771.23 0.00003
412907.50 3773788.59 0.00003
412874.67 3773789.63 0.00003
412874.93 3773806.95 0.00004
412908.02 3773806.17 0.00004
412908.28 3773822.20 0.00004
412875.19 3773822.20 0.00004
412906.99 3773839.00 0.00004
412877.00 3773838.22 0.00004
412907.50 3773855.03 0.00004
412876.74 3773854.77 0.00004
412877.26 3773871.57 0.00004
412908.28 3773871.83 0.00005
412908.02 3773888.38 0.00005
412876.48 3773888.38 0.00005
412877.00 3773906.47 0.00005
412909.31 3773906.21 0.00005
412878.03 3773922.76 0.00005
412908.28 3773922.24 0.00006
412909.31 3773940.08 0.00006
412909.83 3773954.55 0.00006
412877.00 3773954.81 0.00006
412876.74 3773938.53 0.00006
412876.48 3773972.65 0.00007
412909.06 3773972.91 0.00007
412908.02 3773989.71 0.00008
412875.71 3773987.12 0.00007
412876.74 3774004.96 0.00008
412908.80 3774004.19 0.00008

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES
AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0001072 ,
L0001073 , L0001074 , L0001075 , L0001076 ,
L0001077 , L0001078 , L0001079 , L0001080 ,
L0001081 , L0001082 , L0001083 , L0001084 ,
L0001085 , L0001086 , L0001087 , L0001088 ,
L0001089 , L0001090 , L0001091 , L0001092 ,
L0001093 , L0001094 , L0001095 , L0001096 ,
L0001097 , L0001098 , L0001099 , . . . ,

*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

** CONC OF DPM IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
413199.73	3774218.49	0.00015	413034.94	3774218.49	0.00248
413034.94	3774013.13	0.00009	413133.82	3774010.60	0.00007
413133.82	3773917.18	0.00005	413200.04	3773917.10	0.00004

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0001072 , L0001073 , L0001074 , L0001075 , L0001076 ,
L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 ,
L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 ,
L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
412985.64	3774199.21	0.00377	(12031608)	412969.10	3774199.01	0.00284	(12031608)
413000.08	3774199.23	0.00559	(12031608)	412982.28	3774213.73	0.00362	(12031608)
412952.41	3774200.55	0.00232	(12102008)	412933.29	3774198.13	0.00178	(12102008)
412947.57	3774214.83	0.00221	(12102008)	412942.96	3774224.93	0.00201	(12102008)
412920.99	3774198.13	0.00145	(12102008)	412903.64	3774197.69	0.00106	(12102008)
412896.17	3774212.85	0.00086	(13061006)	412880.35	3774215.04	0.00072	(12061606)
412883.43	3774199.23	0.00070	(15021108)	412997.12	3774159.54	0.00305	(12031608)
412997.12	3774142.37	0.00259	(12031608)	412993.54	3774109.11	0.00185	(13111318)
412997.47	3774085.85	0.00113	(15101507)	412965.64	3774156.32	0.00262	(12031608)
412979.23	3774148.45	0.00258	(12031608)	412948.82	3774158.83	0.00212	(12102008)
412933.80	3774157.75	0.00177	(12102008)	412918.06	3774157.40	0.00147	(12102008)
412898.39	3774155.97	0.00114	(12102008)	412884.08	3774158.47	0.00091	(12102008)
412884.08	3774130.21	0.00097	(12102008)	412886.22	3774113.76	0.00099	(12102008)
412914.13	3774123.77	0.00129	(12102008)	412930.22	3774126.28	0.00153	(12031608)
412948.47	3774114.83	0.00183	(12031608)	412955.26	3774140.94	0.00219	(12031608)

412927.00 3774141.66 0.00157 (12102008)
412967.07 3774123.77 0.00222 (12031608)
412992.11 3774066.90 0.00076 (15101507)
412989.25 3774053.66 0.00063 (16090307)
412991.39 3774039.35 0.00056 (12060407)
412961.34 3774046.15 0.00072 (12031608)
412943.46 3774045.07 0.00087 (12031608)
412929.15 3774044.36 0.00093 (12031608)
412916.27 3774043.64 0.00093 (12031608)
412900.18 3774037.20 0.00085 (12031608)
412882.29 3774040.07 0.00077 (12102008)
412880.14 3774050.80 0.00081 (12102008)
412883.01 3774073.33 0.00089 (12102008)
412883.72 3774085.85 0.00092 (12102008)
412957.41 3774089.43 0.00137 (12031608)
412976.73 3774071.90 0.00080 (12031608)
412948.11 3774073.33 0.00112 (12031608)
412930.94 3774070.47 0.00112 (12031608)
412959.56 3774071.90 0.00101 (12031608)
412920.21 3774065.46 0.00105 (12031608)
412913.77 3774076.20 0.00106 (12031608)
412898.39 3774064.03 0.00090 (12031608)
412893.74 3774057.59 0.00086 (12102008)
412995.04 3774001.68 0.00046 (12082507)
412973.58 3774000.25 0.00043 (16090307)
412950.68 3774003.82 0.00050 (12031608)
412948.53 3773988.08 0.00043 (12021515)
412975.72 3773980.21 0.00039 (16090307)
412997.54 3773982.00 0.00041 (12082507)
412996.83 3773968.41 0.00038 (12082507)
412972.86 3773966.98 0.00036 (16090307)
412951.04 3773970.20 0.00038 (12021515)
412950.32 3773953.02 0.00035 (12021515)
412951.04 3773938.00 0.00031 (12021515)
412949.96 3773922.62 0.00029 (16090307)
412949.25 3773906.52 0.00027 (16090307)
412950.32 3773889.35 0.00025 (16090307)
412949.25 3773872.89 0.00024 (16090307)
412948.89 3773856.44 0.00022 (13042907)
412949.25 3773841.05 0.00021 (12060407)
412947.10 3773822.09 0.00020 (12060407)
412948.18 3773805.99 0.00019 (12060407)
412948.53 3773789.54 0.00018 (12060407)
412948.18 3773775.23 0.00018 (12060407)
412946.75 3773754.84 0.00017 (12060407)
412949.61 3773739.10 0.00016 (12060407)
412949.25 3773720.49 0.00016 (12060407)
412948.18 3773704.04 0.00015 (12060407)
412991.82 3773679.00 0.00014 (14090207)
412977.51 3773690.09 0.00014 (12082507)

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0001072 , L0001073 , L0001074 , L0001075 , L0001076 ,
L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 ,
L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 ,
L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
412992.18	3773696.53	0.00015	(14090207)	412991.46	3773710.83	0.00015	(12082507)
412993.25	3773725.14	0.00016	(14090207)	412968.21	3773725.86	0.00016	(14080707)
412990.39	3773744.10	0.00017	(12082507)	412992.18	3773759.13	0.00017	(12082507)
412980.02	3773763.07	0.00017	(12082507)	412987.17	3773774.87	0.00018	(12082507)
412990.75	3773790.61	0.00019	(12082507)	412991.46	3773807.78	0.00020	(12082507)
412969.28	3773770.94	0.00018	(14080707)	412989.67	3773825.67	0.00021	(12082507)
412973.93	3773804.56	0.00020	(14080707)	412972.14	3773819.23	0.00020	(14080707)
412980.37	3773835.69	0.00022	(12082507)	412992.89	3773840.69	0.00022	(12082507)
412991.82	3773857.15	0.00024	(12082507)	412992.89	3773870.74	0.00025	(12082507)
412979.30	3773859.30	0.00023	(12082507)	412968.57	3773869.31	0.00024	(12060407)
412970.36	3773888.63	0.00026	(12060407)	412970.36	3773905.45	0.00028	(12060407)
412969.28	3773916.18	0.00029	(12060407)	412969.64	3773938.36	0.00031	(12060407)
412992.89	3773889.70	0.00027	(12082507)	412993.25	3773904.73	0.00029	(12082507)
412993.25	3773921.54	0.00031	(12082507)	412994.32	3773934.78	0.00033	(12082507)
412991.11	3773950.52	0.00035	(12082507)	412981.45	3773964.11	0.00036	(12060407)

412994.15 3773660.73 0.00014 (14090207)
412974.16 3773643.38 0.00013 (12082507)
412960.54 3773646.01 0.00013 (14080707)
412944.50 3773645.57 0.00013 (12060407)
412930.44 3773647.11 0.00013 (12060407)
412913.74 3773647.99 0.00012 (12060407)
412901.00 3773648.21 0.00012 (13042907)
412880.34 3773649.09 0.00011 (12021515)
412869.36 3773649.31 0.00012 (12021515)
412938.57 3773686.66 0.00014 (12060407)
412920.77 3773682.70 0.00013 (12060407)
412903.63 3773684.68 0.00013 (13042907)
412887.38 3773686.00 0.00013 (12021515)
412869.80 3773684.90 0.00014 (12021515)
412906.42 3773722.89 0.00014 (13042907)
412873.68 3773722.01 0.00016 (12021515)
412873.90 3773740.91 0.00017 (12021515)
412907.30 3773741.35 0.00015 (13042907)
412906.20 3773756.73 0.00016 (12021515)
412874.34 3773757.83 0.00019 (12021515)
412876.98 3773774.31 0.00020 (12021515)
412905.76 3773771.23 0.00017 (12021515)
412907.50 3773788.59 0.00018 (12021515)
412874.67 3773789.63 0.00021 (12021515)
412874.93 3773806.95 0.00023 (12021515)
412908.02 3773806.17 0.00020 (12021515)
412908.28 3773822.20 0.00021 (12021515)
412875.19 3773822.20 0.00024 (12021515)
412906.99 3773839.00 0.00023 (12021515)
412877.00 3773838.22 0.00026 (12031608)
412907.50 3773855.03 0.00025 (12021515)
412876.74 3773854.77 0.00030 (12031608)
412877.26 3773871.57 0.00034 (12031608)
412908.28 3773871.83 0.00027 (12021515)
412908.02 3773888.38 0.00029 (12021515)
412876.48 3773888.38 0.00039 (12031608)
412877.00 3773906.47 0.00045 (12031608)
412909.31 3773906.21 0.00032 (12031608)
412878.03 3773922.76 0.00050 (12031608)
412908.28 3773922.24 0.00038 (12031608)
412909.31 3773940.08 0.00045 (12031608)
412909.83 3773954.55 0.00051 (12031608)
412877.00 3773954.81 0.00059 (12031608)
412876.74 3773938.53 0.00055 (12031608)
412876.48 3773972.65 0.00064 (12031608)
412909.06 3773972.91 0.00059 (12031608)
412908.02 3773989.71 0.00067 (12031608)
412875.71 3773987.12 0.00067 (12031608)
412876.74 3774004.96 0.00070 (12031608)
412908.80 3774004.19 0.00073 (12031608)

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0001072 ,
L0001073 , L0001074 , L0001075 , L0001076 ,
L0001077 , L0001078 , L0001079 , L0001080 ,
L0001081 , L0001082 , L0001083 , L0001084 ,
L0001085 , L0001086 , L0001087 , L0001088 ,
L0001089 , L0001090 , L0001091 , L0001092 ,
L0001093 , L0001094 , L0001095 , L0001096 ,
L0001097 , L0001098 , L0001099 , . . . ,

*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

** CONC OF DPM IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
413199.73	3774218.49	0.00084	(12031616)	413034.94	3774218.49	0.00838	(16070306)
413034.94	3774013.13	0.00066	(14041607)	413133.82	3774010.60	0.00064	(13041407)
413133.82	3773917.18	0.00044	(13041407)	413200.04	3773917.10	0.00030	(12120216)

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0001072 ,
L0001073 , L0001074 , L0001075 , L0001076 ,
L0001077 , L0001078 , L0001079 , L0001080 ,
L0001081 , L0001082 , L0001083 , L0001084 ,
L0001085 , L0001086 , L0001087 , L0001088 ,
L0001089 , L0001090 , L0001091 , L0001092 ,
L0001093 , L0001094 , L0001095 , L0001096 ,
L0001097 , L0001098 , L0001099 , . . . ,

*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

** CONC OF DPM IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
412985.64	3774199.21	0.00135	(15122224)	412969.10	3774199.01	0.00096	(12120624)
413000.08	3774199.23	0.00205m	(15020724)	412982.28	3774213.73	0.00145	(15122224)
412952.41	3774200.55	0.00078	(13120724)	412933.29	3774198.13	0.00062	(13120724)
412947.57	3774214.83	0.00079	(12121624)	412942.96	3774224.93	0.00078	(12121624)
412920.99	3774198.13	0.00053	(13120724)	412903.64	3774197.69	0.00043	(13011824)
412896.17	3774212.85	0.00043	(13111324)	412880.35	3774215.04	0.00036	(13111324)
412883.43	3774199.23	0.00035m	(15020724)	412997.12	3774159.54	0.00100	(15012124)
412997.12	3774142.37	0.00094	(15012124)	412993.54	3774109.11	0.00071	(15012124)
412997.47	3774085.85	0.00044	(15012124)	412965.64	3774156.32	0.00068	(16120724)
412979.23	3774148.45	0.00078	(15012124)	412948.82	3774158.83	0.00061	(13120724)
412933.80	3774157.75	0.00053	(13120724)	412918.06	3774157.40	0.00045	(13120724)
412898.39	3774155.97	0.00036	(13120724)	412884.08	3774158.47	0.00030	(13120724)
412884.08	3774130.21	0.00026	(13120724)	412886.22	3774113.76	0.00026	(13120724)
412914.13	3774123.77	0.00036	(13120724)	412930.22	3774126.28	0.00042	(13120724)
412948.47	3774114.83	0.00045	(16120724)	412955.26	3774140.94	0.00056	(16120724)

412927.00 3774141.66 0.00045 (13120724)
412967.07 3774123.77 0.00058 (15012124)
412992.11 3774066.90 0.00031 (15012124)
412989.25 3774053.66 0.00026 (15012124)
412991.39 3774039.35 0.00021 (15012124)
412961.34 3774046.15 0.00020 (12021524)
412943.46 3774045.07 0.00019 (12021524)
412929.15 3774044.36 0.00019 (13120724)
412916.27 3774043.64 0.00018 (13120724)
412900.18 3774037.20 0.00017 (13120724)
412882.29 3774040.07 0.00017 (13120724)
412880.14 3774050.80 0.00017 (13120724)
412883.01 3774073.33 0.00020 (13120724)
412883.72 3774085.85 0.00021 (13120724)
412957.41 3774089.43 0.00035 (15012124)
412976.73 3774071.90 0.00032 (15012124)
412948.11 3774073.33 0.00027 (16120724)
412930.94 3774070.47 0.00024 (13120724)
412959.56 3774071.90 0.00028 (15012124)
412920.21 3774065.46 0.00022 (13120724)
412913.77 3774076.20 0.00023 (13120724)
412898.39 3774064.03 0.00020 (13120724)
412893.74 3774057.59 0.00019 (13120724)
412995.04 3774001.68 0.00015 (15012124)
412973.58 3774000.25 0.00014 (15012124)
412950.68 3774003.82 0.00015 (12021524)
412948.53 3773988.08 0.00013 (12021524)
412975.72 3773980.21 0.00013 (15012124)
412997.54 3773982.00 0.00013 (15012124)
412996.83 3773968.41 0.00012 (15012124)
412972.86 3773966.98 0.00012 (15012124)
412951.04 3773970.20 0.00012 (12021524)
412950.32 3773953.02 0.00011 (12021524)
412951.04 3773938.00 0.00010 (12021524)
412949.96 3773922.62 0.00010 (12021524)
412949.25 3773906.52 0.00009 (15012124)
412950.32 3773889.35 0.00008 (15012124)
412949.25 3773872.89 0.00008 (15012124)
412948.89 3773856.44 0.00007 (15012124)
412949.25 3773841.05 0.00007 (15012124)
412947.10 3773822.09 0.00007 (15012124)
412948.18 3773805.99 0.00006 (15012124)
412948.53 3773789.54 0.00006 (15012124)
412948.18 3773775.23 0.00006 (15012124)
412946.75 3773754.84 0.00005 (15012124)
412949.61 3773739.10 0.00005 (15012124)
412949.25 3773720.49 0.00005 (15012124)
412948.18 3773704.04 0.00004 (15012124)
412991.82 3773679.00 0.00004 (15012124)
412977.51 3773690.09 0.00004 (15012124)

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0001072 , L0001073 , L0001074 , L0001075 , L0001076 ,
L0001077 , L0001078 , L0001079 , L0001080 , L0001081 , L0001082 , L0001083 , L0001084 ,
L0001085 , L0001086 , L0001087 , L0001088 , L0001089 , L0001090 , L0001091 , L0001092 ,
L0001093 , L0001094 , L0001095 , L0001096 , L0001097 , L0001098 , L0001099 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
412992.18	3773696.53	0.00004	(15012124)	412991.46	3773710.83	0.00005	(15012124)
412993.25	3773725.14	0.00005	(15012124)	412968.21	3773725.86	0.00005	(15012124)
412990.39	3773744.10	0.00005	(15012124)	412992.18	3773759.13	0.00005	(15012124)
412980.02	3773763.07	0.00005	(15012124)	412987.17	3773774.87	0.00006	(15012124)
412990.75	3773790.61	0.00006	(15012124)	412991.46	3773807.78	0.00006	(15012124)
412969.28	3773770.94	0.00005	(15012124)	412989.67	3773825.67	0.00007	(15012124)
412973.93	3773804.56	0.00006	(15012124)	412972.14	3773819.23	0.00006	(15012124)
412980.37	3773835.69	0.00007	(15012124)	412992.89	3773840.69	0.00007	(15012124)
412991.82	3773857.15	0.00007	(15012124)	412992.89	3773870.74	0.00008	(15012124)
412979.30	3773859.30	0.00007	(15012124)	412968.57	3773869.31	0.00008	(15012124)
412970.36	3773888.63	0.00008	(15012124)	412970.36	3773905.45	0.00009	(15012124)
412969.28	3773916.18	0.00009	(15012124)	412969.64	3773938.36	0.00010	(15012124)
412992.89	3773889.70	0.00008	(15012124)	412993.25	3773904.73	0.00009	(15012124)
412993.25	3773921.54	0.00010	(15012124)	412994.32	3773934.78	0.00010	(15012124)
412991.11	3773950.52	0.00011	(15012124)	412981.45	3773964.11	0.00012	(15012124)

412994.15 3773660.73 0.00004m (15020724)
412974.16 3773643.38 0.00004 (15012124)
412960.54 3773646.01 0.00004 (15012124)
412944.50 3773645.57 0.00004 (15012124)
412930.44 3773647.11 0.00004 (15012124)
412913.74 3773647.99 0.00004 (15012124)
412901.00 3773648.21 0.00004 (12021524)
412880.34 3773649.09 0.00004 (12021524)
412869.36 3773649.31 0.00004 (12021524)
412938.57 3773686.66 0.00004 (15012124)
412920.77 3773682.70 0.00004 (15012124)
412903.63 3773684.68 0.00004 (12021524)
412887.38 3773686.00 0.00004 (12021524)
412869.80 3773684.90 0.00004 (12021524)
412906.42 3773722.89 0.00005 (12021524)
412873.68 3773722.01 0.00005 (12021524)
412873.90 3773740.91 0.00005 (12021524)
412907.30 3773741.35 0.00005 (12021524)
412906.20 3773756.73 0.00005 (12021524)
412874.34 3773757.83 0.00005 (12021524)
412876.98 3773774.31 0.00006 (12021524)
412905.76 3773771.23 0.00006 (12021524)
412907.50 3773788.59 0.00006 (12021524)
412874.67 3773789.63 0.00006 (12021524)
412874.93 3773806.95 0.00006 (12021524)
412908.02 3773806.17 0.00006 (12021524)
412908.28 3773822.20 0.00007 (12021524)
412875.19 3773822.20 0.00007 (12021524)
412906.99 3773839.00 0.00007 (12021524)
412877.00 3773838.22 0.00007 (12021524)
412907.50 3773855.03 0.00008 (12021524)
412876.74 3773854.77 0.00007 (12021524)
412877.26 3773871.57 0.00008 (15122324)
412908.28 3773871.83 0.00008 (12021524)
412908.02 3773888.38 0.00009 (12021524)
412876.48 3773888.38 0.00008 (15122324)
412877.00 3773906.47 0.00009 (15122324)
412909.31 3773906.21 0.00009 (12021524)
412878.03 3773922.76 0.00010 (16120724)
412908.28 3773922.24 0.00010 (12021524)
412909.31 3773940.08 0.00011 (12021524)
412909.83 3773954.55 0.00011 (12021524)
412877.00 3773954.81 0.00011 (13120724)
412876.74 3773938.53 0.00010 (13120724)
412876.48 3773972.65 0.00012 (13120724)
412909.06 3773972.91 0.00012 (12021524)
412908.02 3773989.71 0.00013 (13120724)
412875.71 3773987.12 0.00013 (13120724)
412876.74 3774004.96 0.00014 (13120724)
412908.80 3774004.19 0.00014 (13120724)

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0001072 ,
L0001073 , L0001074 , L0001075 , L0001076 ,
L0001077 , L0001078 , L0001079 , L0001080 ,
L0001081 , L0001082 , L0001083 , L0001084 ,
L0001085 , L0001086 , L0001087 , L0001088 ,
L0001089 , L0001090 , L0001091 , L0001092 ,
L0001093 , L0001094 , L0001095 , L0001096 ,
L0001097 , L0001098 , L0001099 , . . . ,

*** DISCRETE CARTESIAN
RECEPTOR POINTS ***

** CONC OF DPM IN
MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
413199.73	3774218.49	0.00025m	(12050124)	413034.94	3774218.49	0.00355m	(14021924)
413034.94	3774013.13	0.00015	(15012124)	413133.82	3774010.60	0.00016m	(12050224)
413133.82	3773917.18	0.00008m	(15020724)	413200.04	3773917.10	0.00007m	(15020724)

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER 5 YEARS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

NETWORK GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.00248 AT (413034.94, 3774218.49, 140.77, 1646.00, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00145 AT (413000.08, 3774199.23, 142.69, 1646.00, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00097 AT (412982.28, 3774213.73, 142.64, 1646.00, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00091 AT (412985.64, 3774199.21, 142.97, 1646.00, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.00063 AT (412969.10, 3774199.01, 142.76, 1646.00, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.00052 AT (412997.12, 3774159.54, 145.55, 1646.00, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.00049 AT (412947.57, 3774214.83, 142.39, 1646.00, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.00049 AT (412952.41, 3774200.55, 142.50, 1646.00, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.00048 AT (412942.96, 3774224.93, 142.34, 1646.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.00040 AT (412997.12, 3774142.37, 146.74, 1646.00, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** THE SUMMARY OF
HIGHEST 1-HR RESULTS ***

** CONC OF DPM IN
MICROGRAMS/M**3 **

NETWORK GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.00838	ON 16070306:	AT (413034.94, 3774218.49, 140.77, 1646.00, 0.00)	DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: NonDFAULT CONC FLAT and ELEV URBAN ADJ_U*

*** THE SUMMARY OF
HIGHEST 24-HR RESULTS ***

** CONC OF DPM IN
MICROGRAMS/M**3 **

NETWORK GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	HIGH 1ST HIGH VALUE IS	0.00355m	ON 14021924: AT (413034.94, 3774218.49, 140.77, 1646.00, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

```
 *** AERMOD - VERSION  18081 ***   ***
C:\Users\ckirikian.MERIDIAN\Documents\5010 Azusa Canyon Road\AERMOD\ ***
12/18/18
 *** AERMET - VERSION  16216 ***   ***
***        09:50:37

PAGE  23
 *** MODELOPTs:    NonDFAULT  CONC  FLAT and  ELEV  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of         1684 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of           75 Calm Hours Identified

 A Total of         1609 Missing Hours Identified (  3.67 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     227       MEOPEN: THRESH_1MIN 1-min ASOS wind speed
threshold used           0.50
 ME W187     227       MEOPEN: ADJ_U* Option for Stable Low Winds used in
AERMET

    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
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* AERMOD ( 18081): C:\Users\ckirikian.MERIDIAN\Documents\5010 Azusa
Canyon Road\AERMOD\     12/18/18
* AERMET ( 16216):
09:50:37
* MODELING OPTIONS USED:   NonDFAULT  CONC  FLAT and  ELEV  URBAN  ADJ_U*
*         PLOT FILE OF ANNUAL VALUES AVERAGED ACROSS   5 YEARS FOR SOURCE
GROUP: ALL
*         FOR A TOTAL OF   166 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)
*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG
AVE     GRP      NUM YRS   NET ID
* _____________  _____________  _____________   _______   _______   _______
_____  ________  ________  ________
  412985.64000 3774199.21000       0.00091   142.97  1646.00     0.00
ANNUAL  ALL       00000005
  412969.10000 3774199.01000       0.00063   142.76  1646.00     0.00
ANNUAL  ALL       00000005
  413000.08000 3774199.23000       0.00145   142.69  1646.00     0.00
ANNUAL  ALL       00000005
  412982.28000 3774213.73000       0.00097   142.64  1646.00     0.00
ANNUAL  ALL       00000005
  412952.41000 3774200.55000       0.00049   142.50  1646.00     0.00
ANNUAL  ALL       00000005
  412933.29000 3774198.13000       0.00037   142.25  1646.00     0.00
ANNUAL  ALL       00000005
  412947.57000 3774214.83000       0.00049   142.39  1646.00     0.00
ANNUAL  ALL       00000005
  412942.96000 3774224.93000       0.00048   142.34  1646.00     0.00
ANNUAL  ALL       00000005
  412920.99000 3774198.13000       0.00031   142.05  1646.00     0.00
ANNUAL  ALL       00000005
  412903.64000 3774197.69000       0.00026   141.24  1646.00     0.00
ANNUAL  ALL       00000005
  412896.17000 3774212.85000       0.00025   141.07  1646.00     0.00
ANNUAL  ALL       00000005
  412880.35000 3774215.04000       0.00021   140.21  1646.00     0.00
ANNUAL  ALL       00000005
  412883.43000 3774199.23000       0.00021   139.95  1646.00     0.00
ANNUAL  ALL       00000005
  412997.12000 3774159.54000       0.00052   145.55  1646.00     0.00
ANNUAL  ALL       00000005
  412997.12000 3774142.37000       0.00040   146.74  1646.00     0.00
ANNUAL  ALL       00000005
  412993.54000 3774109.11000       0.00025   148.98  1646.00     0.00
ANNUAL  ALL       00000005
  412997.47000 3774085.85000       0.00018   145.83  1646.00     0.00
ANNUAL  ALL       00000005
  412965.64000 3774156.32000       0.00037   144.28  1646.00     0.00
ANNUAL  ALL       00000005
  412979.23000 3774148.45000       0.00039   145.54  1646.00     0.00
ANNUAL  ALL       00000005
  412948.82000 3774158.83000       0.00033   143.19  1646.00     0.00
ANNUAL  ALL       00000005
  412933.80000 3774157.75000       0.00028   142.30  1646.00     0.00
ANNUAL  ALL       00000005
  412918.06000 3774157.40000       0.00024   141.33  1646.00     0.00
ANNUAL  ALL       00000005
  412898.39000 3774155.97000       0.00020   139.83  1646.00     0.00
ANNUAL  ALL       00000005
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412884.08000 3774158.47000 0.00018 138.79 1646.00 0.00
ANNUAL ALL 00000005
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ANNUAL ALL 00000005
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** CONCUNIT ug/m^3
** DEPUNIT g/m^2
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APPENDIX B

CalEEMod Worksheets

Appendix B.1

Annual—Existing

5010 Azusa Canyon Road (Existing)

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	33.42	1000sqft	10.00	33,420.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2018
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 10 acre site with three buildings totaling 33,420 sq. ft.

Construction Phase - Existing Run

Vehicle Trips - Based on daily trip generation of 330 trips

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblLandUse	LotAcreage	0.77	10.00
tblVehicleTrips	WD_TR	6.97	9.87

2.0 Emissions Summary

2.2 Overall Operational

Baseline Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3227	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.9000e-004
Energy	3.2600e-003	0.0297	0.0249	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	150.4763	150.4763	5.5000e-003	1.6000e-003	151.0910
Mobile	0.1234	0.6400	1.8801	5.4600e-003	0.4121	6.6400e-003	0.4188	0.1105	6.2500e-003	0.1168	0.0000	502.6538	502.6538	0.0304	0.0000	503.4134
Waste						0.0000	0.0000		0.0000	0.0000	109.6435	0.0000	109.6435	6.4798	0.0000	271.6372
Water						0.0000	0.0000		0.0000	0.0000	31.9578	417.9159	449.8737	3.2996	0.0811	556.5242
Total	**0.4494**	**0.6697**	**1.9054**	**5.6400e-003**	**0.4121**	**8.8900e-003**	**0.4210**	**0.1105**	**8.5000e-003**	**0.1190**	**141.6013**	**1,071.0468**	**1,212.6482**	**9.8153**	**0.0827**	**1,482.6667**

Regulatory Compliance Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3227	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.9000e-004
Energy	3.2600e-003	0.0297	0.0249	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	150.4763	150.4763	5.5000e-003	1.6000e-003	151.0910
Mobile	0.1234	0.6400	1.8801	5.4600e-003	0.4121	6.6400e-003	0.4188	0.1105	6.2500e-003	0.1168	0.0000	502.6538	502.6538	0.0304	0.0000	503.4134

Waste						0.0000	0.0000		0.0000	0.0000	109.6435	0.0000	109.6435	6.4798	0.0000	271.6372
Water						0.0000	0.0000		0.0000	0.0000	31.9578	417.9159	449.8737	3.2996	0.0811	556.5242
Total	**0.4494**	**0.6697**	**1.9054**	**5.6400e-003**	**0.4121**	**8.8900e-003**	**0.4210**	**0.1105**	**8.5000e-003**	**0.1190**	**141.6013**	**1,071.0468**	**1,212.6482**	**9.8153**	**0.0827**	**1,482.6667**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Regulatory Compliance	0.1234	0.6400	1.8801	5.4600e-003	0.4121	6.6400e-003	0.4188	0.1105	6.2500e-003	0.1168	0.0000	502.6538	502.6538	0.0304	0.0000	503.4134
Baseline	0.1234	0.6400	1.8801	5.4600e-003	0.4121	6.6400e-003	0.4188	0.1105	6.2500e-003	0.1168	0.0000	502.6538	502.6538	0.0304	0.0000	503.4134

4.2 Trip Summary Information

	Average Daily Trip Rate			Baseline	Regulatory Compliance
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	329.86	44.11	22.73	1,085,635	1,085,635
Total	329.86	44.11	22.73	1,085,635	1,085,635

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Regulatory Compliance						0.0000	0.0000		0.0000	0.0000	0.0000	118.1964	118.1964	4.8800e-003	1.0100e-003	118.6193
Electricity Baseline						0.0000	0.0000		0.0000	0.0000	0.0000	118.1964	118.1964	4.8800e-003	1.0100e-003	118.6193
NaturalGas Regulatory Compliance	3.2600e-003	0.0297	0.0249	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.2799	32.2799	6.2000e-004	5.9000e-004	32.4717
NaturalGas Baseline	3.2600e-003	0.0297	0.0249	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.2799	32.2799	6.2000e-004	5.9000e-004	32.4717

5.2 Energy by Land Use - NaturalGas

Baseline

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	604902	3.2600e-003	0.0297	0.0249	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.2799	32.2799	6.2000e-004	5.9000e-004	32.4717
Total		**3.2600e-003**	**0.0297**	**0.0249**	**1.8000e-004**		**2.2500e-003**	**2.2500e-003**		**2.2500e-003**	**2.2500e-003**	**0.0000**	**32.2799**	**32.2799**	**6.2000e-004**	**5.9000e-004**	**32.4717**

Regulatory Compliance

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	604902	3.2600e-003	0.0297	0.0249	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.2799	32.2799	6.2000e-004	5.9000e-004	32.4717
Total		**3.2600e-003**	**0.0297**	**0.0249**	**1.8000e-004**		**2.2500e-003**	**2.2500e-003**		**2.2500e-003**	**2.2500e-003**	**0.0000**	**32.2799**	**32.2799**	**6.2000e-004**	**5.9000e-004**	**32.4717**

5.3 Energy by Land Use - Electricity

Baseline

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	370962	118.1964	4.8800e-003	1.0100e-003	118.6193
Total		**118.1964**	**4.8800e-003**	**1.0100e-003**	**118.6193**

Regulatory Compliance

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	370962	118.1964	4.8800e-003	1.0100e-003	118.6193
Total		**118.1964**	**4.8800e-003**	**1.0100e-003**	**118.6193**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Regulatory Compliance	0.3227	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.9000e-004
Baseline	0.3227	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.9000e-004

6.2 Area by SubCategory

Baseline

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2019					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1208					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.9000e-004
Total	**0.3227**	**0.0000**	**4.3000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**8.3000e-004**	**8.3000e-004**	**0.0000**	**0.0000**	**8.9000e-004**

Regulatory Compliance

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2019					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1208					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.9000e-004
Total	**0.3227**	**0.0000**	**4.3000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**8.3000e-004**	**8.3000e-004**	**0.0000**	**0.0000**	**8.9000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Regulatory Compliance	449.8737	3.2996	0.0811	556.5242
Baseline	449.8737	3.2996	0.0811	556.5242

7.2 Water by Land Use

Baseline

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	100.733 / 0	449.8737	3.2996	0.0811	556.5242
Total		**449.8737**	**3.2996**	**0.0811**	**556.5242**

Regulatory Compliance

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

General Light Industry	100.733 / 0	449.8737	3.2996	0.0811	556.5242
Total		**449.8737**	**3.2996**	**0.0811**	**556.5242**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Regulatory Compliance	109.6435	6.4798	0.0000	271.6372
Baseline	109.6435	6.4798	0.0000	271.6372

8.2 Waste by Land Use

Baseline

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	540.14	109.6435	6.4798	0.0000	271.6372
Total		**109.6435**	**6.4798**	**0.0000**	**271.6372**

Regulatory Compliance

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	540.14	109.6435	6.4798	0.0000	271.6372
Total		**109.6435**	**6.4798**	**0.0000**	**271.6372**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix B.2

Summer—Existing

5010 Azusa Canyon Road (Existing)

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	33.42	1000sqft	10.00	33,420.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2018
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 10 acre site with three buildings totaling 33,420 sq. ft.

Construction Phase - Existing Run

Vehicle Trips - Based on daily trip generation of 330 trips

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblLandUse	LotAcreage	0.77	10.00
tblVehicleTrips	WD_TR	6.97	9.87

2.0 Emissions Summary

2.2 Overall Operational

Baseline Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7684	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.3100e-003	7.3100e-003	2.0000e-005		7.8200e-003
Energy	0.0179	0.1625	0.1365	9.7000e-004		0.0124	0.0124		0.0124	0.0124		194.9724	194.9724	3.7400e-003	3.5700e-003	196.1311
Mobile	0.9522	4.4760	14.4888	0.0419	3.1066	0.0491	3.1557	0.8316	0.0462	0.8778		4,247.8882	4,247.8882	0.2507		4,254.1546
Total	**2.7384**	**4.6385**	**14.6287**	**0.0429**	**3.1066**	**0.0614**	**3.1680**	**0.8316**	**0.0586**	**0.8902**		**4,442.8680**	**4,442.8680**	**0.2544**	**3.5700e-003**	**4,450.2934**

Regulatory Compliance Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7684	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.3100e-003	7.3100e-003	2.0000e-005		7.8200e-003
Energy	0.0179	0.1625	0.1365	9.7000e-004		0.0124	0.0124		0.0124	0.0124		194.9724	194.9724	3.7400e-003	3.5700e-003	196.1311
Mobile	0.9522	4.4760	14.4888	0.0419	3.1066	0.0491	3.1557	0.8316	0.0462	0.8778		4,247.8882	4,247.8882	0.2507		4,254.1546
Total	**2.7384**	**4.6385**	**14.6287**	**0.0429**	**3.1066**	**0.0614**	**3.1680**	**0.8316**	**0.0586**	**0.8902**		**4,442.8680**	**4,442.8680**	**0.2544**	**3.5700e-003**	**4,450.2934**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e

Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Regulatory Compliance	0.9522	4.4760	14.4888	0.0419	3.1066	0.0491	3.1557	0.8316	0.0462	0.8778		4,247.8882	4,247.8882	0.2507		4,254.1546
Baseline	0.9522	4.4760	14.4888	0.0419	3.1066	0.0491	3.1557	0.8316	0.0462	0.8778		4,247.8882	4,247.8882	0.2507		4,254.1546

4.2 Trip Summary Information

	Average Daily Trip Rate			Baseline	Regulatory Compliance
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	329.86	44.11	22.73	1,085,635	1,085,635
Total	329.86	44.11	22.73	1,085,635	1,085,635

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH

General Light Industry	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Regulatory Compliance	0.0179	0.1625	0.1365	9.7000e-004		0.0124	0.0124		0.0124	0.0124		194.9724	194.9724	3.7400e-003	3.5700e-003	196.1311
NaturalGas Baseline	0.0179	0.1625	0.1365	9.7000e-004		0.0124	0.0124		0.0124	0.0124		194.9724	194.9724	3.7400e-003	3.5700e-003	196.1311

5.2 Energy by Land Use - NaturalGas

Baseline

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	1657.27	0.0179	0.1625	0.1365	9.7000e-004		0.0124	0.0124		0.0124	0.0124		194.9724	194.9724	3.7400e-003	3.5700e-003	196.1311
Total		**0.0179**	**0.1625**	**0.1365**	**9.7000e-004**		**0.0124**	**0.0124**		**0.0124**	**0.0124**		**194.9724**	**194.9724**	**3.7400e-003**	**3.5700e-003**	**196.1311**

Regulatory Compliance

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	1.65727	0.0179	0.1625	0.1365	9.7000e-004		0.0124	0.0124		0.0124	0.0124		194.9724	194.9724	3.7400e-003	3.5700e-003	196.1311
Total		**0.0179**	**0.1625**	**0.1365**	**9.7000e-004**		**0.0124**	**0.0124**		**0.0124**	**0.0124**		**194.9724**	**194.9724**	**3.7400e-003**	**3.5700e-003**	**196.1311**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Regulatory Compliance	1.7684	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.3100e-003	7.3100e-003	2.0000e-005		7.8200e-003
Baseline	1.7684	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.3100e-003	7.3100e-003	2.0000e-005		7.8200e-003

6.2 Area by SubCategory

Baseline

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6617					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.3100e-003	7.3100e-003	2.0000e-005		7.8200e-003
Total	**1.7684**	**3.0000e-005**	**3.4600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**7.3100e-003**	**7.3100e-003**	**2.0000e-005**		**7.8200e-003**

Regulatory Compliance

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6617					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.3100e-003	7.3100e-003	2.0000e-005		7.8200e-003
Total	**1.7684**	**3.0000e-005**	**3.4600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**7.3100e-003**	**7.3100e-003**	**2.0000e-005**		**7.8200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix B.3

Winter—Existing

5010 Azusa Canyon Road (Existing)

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	33.42	1000sqft	10.00	33,420.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2018
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 10 acre site with three buildings totaling 33,420 sq. ft.

Construction Phase - Existing Run

Vehicle Trips - Based on daily trip generation of 330 trips

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblLandUse	LotAcreage	0.77	10.00
tblVehicleTrips	WD_TR	6.97	9.87

2.0 Emissions Summary

2.2 Overall Operational

Baseline Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7684	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.3100e-003	7.3100e-003	2.0000e-005		7.8200e-003
Energy	0.0179	0.1625	0.1365	9.7000e-004		0.0124	0.0124		0.0124	0.0124		194.9724	194.9724	3.7400e-003	3.5700e-003	196.1311
Mobile	0.9309	4.6408	13.6733	0.0398	3.1066	0.0493	3.1559	0.8316	0.0464	0.8780		4,041.3815	4,041.3815	0.2477		4,047.5729
Total	**2.7172**	**4.8033**	**13.8132**	**0.0408**	**3.1066**	**0.0617**	**3.1683**	**0.8316**	**0.0588**	**0.8904**		**4,236.3613**	**4,236.3613**	**0.2514**	**3.5700e-003**	**4,243.7118**

Regulatory Compliance Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7684	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.3100e-003	7.3100e-003	2.0000e-005		7.8200e-003
Energy	0.0179	0.1625	0.1365	9.7000e-004		0.0124	0.0124		0.0124	0.0124		194.9724	194.9724	3.7400e-003	3.5700e-003	196.1311
Mobile	0.9309	4.6408	13.6733	0.0398	3.1066	0.0493	3.1559	0.8316	0.0464	0.8780		4,041.3815	4,041.3815	0.2477		4,047.5729
Total	**2.7172**	**4.8033**	**13.8132**	**0.0408**	**3.1066**	**0.0617**	**3.1683**	**0.8316**	**0.0588**	**0.8904**		**4,236.3613**	**4,236.3613**	**0.2514**	**3.5700e-003**	**4,243.7118**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e

Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Regulatory Compliance	0.9309	4.6408	13.6733	0.0398	3.1066	0.0493	3.1559	0.8316	0.0464	0.8780		4,041.3815	4,041.3815	0.2477		4,047.5729
Baseline	0.9309	4.6408	13.6733	0.0398	3.1066	0.0493	3.1559	0.8316	0.0464	0.8780		4,041.3815	4,041.3815	0.2477		4,047.5729

4.2 Trip Summary Information

	Average Daily Trip Rate			Baseline	Regulatory Compliance
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	329.86	44.11	22.73	1,085,635	1,085,635
Total	329.86	44.11	22.73	1,085,635	1,085,635

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH

General Light Industry	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Regulatory Compliance	0.0179	0.1625	0.1365	9.7000e-004		0.0124	0.0124		0.0124	0.0124		194.9724	194.9724	3.7400e-003	3.5700e-003	196.1311
NaturalGas Baseline	0.0179	0.1625	0.1365	9.7000e-004		0.0124	0.0124		0.0124	0.0124		194.9724	194.9724	3.7400e-003	3.5700e-003	196.1311

5.2 Energy by Land Use - NaturalGas

Baseline

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	1657.27	0.0179	0.1625	0.1365	9.7000e-004		0.0124	0.0124		0.0124	0.0124		194.9724	194.9724	3.7400e-003	3.5700e-003	196.1311
Total		**0.0179**	**0.1625**	**0.1365**	**9.7000e-004**		**0.0124**	**0.0124**		**0.0124**	**0.0124**		**194.9724**	**194.9724**	**3.7400e-003**	**3.5700e-003**	**196.1311**

Regulatory Compliance

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	1.65727	0.0179	0.1625	0.1365	9.7000e-004		0.0124	0.0124		0.0124	0.0124		194.9724	194.9724	3.7400e-003	3.5700e-003	196.1311
Total		**0.0179**	**0.1625**	**0.1365**	**9.7000e-004**		**0.0124**	**0.0124**		**0.0124**	**0.0124**		**194.9724**	**194.9724**	**3.7400e-003**	**3.5700e-003**	**196.1311**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Regulatory Compliance	1.7684	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.3100e-003	7.3100e-003	2.0000e-005		7.8200e-003
Baseline	1.7684	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.3100e-003	7.3100e-003	2.0000e-005		7.8200e-003

6.2 Area by SubCategory

Baseline

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6617					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.3100e-003	7.3100e-003	2.0000e-005		7.8200e-003
Total	**1.7684**	**3.0000e-005**	**3.4600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**7.3100e-003**	**7.3100e-003**	**2.0000e-005**		**7.8200e-003**

Regulatory Compliance

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.1063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6617					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.3100e-003	7.3100e-003	2.0000e-005		7.8200e-003
Total	**1.7684**	**3.0000e-005**	**3.4600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**7.3100e-003**	**7.3100e-003**	**2.0000e-005**		**7.8200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix B.4

Annual—Proposed

5010 Azusa Canyon Road (Project)

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	233.99	1000sqft	10.00	233,987.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on 10 acre site

Construction Phase - Construction duration: 9 months total

Off-road Equipment - Two manlifts, two compressors

Off-road Equipment - Six generators, two loaders, one water truck, four excavators, one crane for a week, laser screed, concrete pump, one asphalt tanker

Off-road Equipment - Two excavators, two loaders

Off-road Equipment - Four scrapers, one blade, one loader & one water truck

Off-road Equipment - Two scrapers, one loaders, two bobcats, laser screed

Trips and VMT - Location of landfill TBD

Demolition - Three buildings totaling 33,420 square feet exist on the site that would be demolished. The majority of the onsite buildings and pavement consisting of concrete and asphalt will be crushed and used onsite as base.

Grading -

Vehicle Trips - Based on traffic trip generation of 1,161 trips

Construction Off-road Equipment Mitigation - 'Per CARB Title 13 CCR Section 2520-2427, equipment required to be Tier 4 Final for new equipment. Project will utilize Tier 3 as Tier IV not available yet in commercial/industrial construction.

Area Mitigation - SCAQMD Rule 1113 - Architectural Coating

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	131.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	PhaseEndDate	6/5/2020	1/2/2020
tblConstructionPhase	PhaseEndDate	4/10/2020	1/2/2020
tblConstructionPhase	PhaseEndDate	4/26/2019	5/31/2019
tblConstructionPhase	PhaseEndDate	5/24/2019	7/3/2019
tblConstructionPhase	PhaseEndDate	5/8/2020	1/2/2020
tblConstructionPhase	PhaseStartDate	5/9/2020	11/2/2019
tblConstructionPhase	PhaseStartDate	5/25/2019	7/4/2019
tblConstructionPhase	PhaseStartDate	4/27/2019	6/1/2019
tblConstructionPhase	PhaseStartDate	4/11/2020	12/2/2019
tblLandUse	LandUseSquareFeet	233,990.00	233,987.00
tblLandUse	LotAcreage	5.37	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Architectural Coating
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	UsageHours	7.00	1.00
tblVehicleTrips	WD_TR	6.97	4.96

2.0 Emissions Summary

2.1 Overall Construction

Baseline Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	1.6251	5.8684	4.6718	0.0104	0.1624	0.2593	0.4217	0.0339	0.2473	0.2812	0.0000	928.6943	928.6943	0.1883	0.0000	933.4028
2020	0.0599	0.1078	0.0843	1.9000e-004	1.7000e-003	4.5700e-003	6.2600e-003	4.6000e-004	4.3300e-003	4.7900e-003	0.0000	17.0205	17.0205	3.6800e-003	0.0000	17.1126
Maximum	**1.6251**	**5.8684**	**4.6718**	**0.0104**	**0.1624**	**0.2593**	**0.4217**	**0.0339**	**0.2473**	**0.2812**	**0.0000**	**928.6943**	**928.6943**	**0.1883**	**0.0000**	**933.4028**

Regulatory Compliance Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	1.2871	4.5160	5.7878	0.0104	0.1226	0.2164	0.3390	0.0292	0.2163	0.2455	0.0000	928.6933	928.6933	0.1883	0.0000	933.4019
2020	0.0540	0.0842	0.1064	1.9000e-004	1.7000e-003	3.9800e-003	5.6800e-003	4.6000e-004	3.9800e-003	4.4400e-003	0.0000	17.0205	17.0205	3.6800e-003	0.0000	17.1126
Maximum	**1.2871**	**4.5160**	**5.7878**	**0.0104**	**0.1226**	**0.2164**	**0.3390**	**0.0292**	**0.2163**	**0.2455**	**0.0000**	**928.6933**	**928.6933**	**0.1883**	**0.0000**	**933.4019**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**20.41**	**23.02**	**-23.93**	**0.00**	**24.25**	**16.48**	**19.45**	**13.75**	**12.46**	**12.62**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Baseline ROG + NOX (tons/quarter)	Maximum Regulatory Compliance ROG + NOX (tons/quarter)
1	**4-1-2019**	**6-30-2019**	1.1529	0.7418
2	**7-1-2019**	**9-30-2019**	2.3066	1.7969
3	**10-1-2019**	**12-31-2019**	4.0537	3.2836
4	**1-1-2020**	**3-31-2020**	0.1198	0.0987

		Highest	4.0537	3.2836

2.2 Overall Operational

Baseline Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9543	3.0000e-005	3.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.8100e-003	5.8100e-003	2.0000e-005	0.0000	6.1900e-003
Energy	0.0228	0.2076	0.1744	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	1,053.5458	1,053.5458	0.0385	0.0112	1,057.8494
Mobile	0.3424	1.8452	5.2089	0.0185	1.5057	0.0157	1.5214	0.4036	0.0147	0.4183	0.0000	1,706.8289	1,706.8289	0.0890	0.0000	1,709.0545
Waste						0.0000	0.0000		0.0000	0.0000	58.8978	0.0000	58.8978	3.4808	0.0000	145.9169
Water						0.0000	0.0000		0.0000	0.0000	17.1667	224.4907	241.6574	1.7725	0.0436	298.9465
Total	**1.3195**	**2.0528**	**5.3863**	**0.0198**	**1.5057**	**0.0315**	**1.5371**	**0.4036**	**0.0305**	**0.4341**	**76.0645**	**2,984.8712**	**3,060.9357**	**5.3808**	**0.0548**	**3,211.7735**

Regulatory Compliance Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9543	3.0000e-005	3.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.8100e-003	5.8100e-003	2.0000e-005	0.0000	6.1900e-003
Energy	0.0228	0.2076	0.1744	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	1,053.5458	1,053.5458	0.0385	0.0112	1,057.8494
Mobile	0.3424	1.8452	5.2089	0.0185	1.5057	0.0157	1.5214	0.4036	0.0147	0.4183	0.0000	1,706.8289	1,706.8289	0.0890	0.0000	1,709.0545
Waste						0.0000	0.0000		0.0000	0.0000	58.8978	0.0000	58.8978	3.4808	0.0000	145.9169

Water						0.0000	0.0000		0.0000	0.0000	13.7333	179.5926	193.3259	1.4180	0.0348	239.1572
Total	**1.3195**	**2.0528**	**5.3863**	**0.0198**	**1.5057**	**0.0315**	**1.5371**	**0.4036**	**0.0305**	**0.4341**	**72.6312**	**2,939.9731**	**3,012.6042**	**5.0263**	**0.0461**	**3,151.9842**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**4.51**	**1.50**	**1.58**	**6.59**	**15.91**	**1.86**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2019	5/31/2019	5	45	
2	Grading	Grading	6/1/2019	7/3/2019	5	23	
3	Building Construction	Building Construction	7/4/2019	1/2/2020	5	131	
4	Paving	Paving	12/2/2019	1/2/2020	5	24	
5	Architectural Coating	Architectural Coating	11/2/2019	1/2/2020	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 92

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 350,981; Non-Residential Outdoor: 116,994; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Loaders	2	8.00	203	0.36
Grading	Off-Highway Trucks	1	8.00	402	0.38
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	4	8.00	367	0.48
Grading	Surfacing Equipment	1	8.00	263	0.30

Building Construction	Cranes	1	1.00	231	0.29
Building Construction	Excavators	4	8.00	158	0.38
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Other General Industrial Equipment	1	4.00	88	0.34
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Rubber Tired Loaders	2	8.00	203	0.36
Building Construction	Surfacing Equipment	1	8.00	263	0.30
Paving	Crawler Tractors	2	8.00	212	0.43
Paving	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Scrapers	2	8.00	367	0.48
Paving	Surfacing Equipment	1	8.00	263	0.30
Architectural Coating	Aerial Lifts	2	6.00	63	0.31
Architectural Coating	Air Compressors	2	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	152.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	17	98.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	4	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0165	0.0000	0.0165	2.4900e-003	0.0000	2.4900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0297	0.3379	0.2224	5.1000e-004		0.0131	0.0131		0.0121	0.0121	0.0000	46.1275	46.1275	0.0146	0.0000	46.4924
Total	**0.0297**	**0.3379**	**0.2224**	**5.1000e-004**	**0.0165**	**0.0131**	**0.0296**	**2.4900e-003**	**0.0121**	**0.0145**	**0.0000**	**46.1275**	**46.1275**	**0.0146**	**0.0000**	**46.4924**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.2000e-004	0.0241	5.1100e-003	6.0000e-005	1.3100e-003	9.0000e-005	1.3900e-003	3.6000e-004	8.0000e-005	4.4000e-004	0.0000	5.9180	5.9180	4.2000e-004	0.0000	5.9284
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	9.4000e-004	0.0102	3.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.3701	2.3701	8.0000e-005	0.0000	2.3721
Total	**1.8500e-003**	**0.0250**	**0.0153**	**9.0000e-005**	**3.7800e-003**	**1.1000e-004**	**3.8800e-003**	**1.0100e-003**	**1.0000e-004**	**1.1100e-003**	**0.0000**	**8.2881**	**8.2881**	**5.0000e-004**	**0.0000**	**8.3005**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Fugitive Dust					6.4100e-003	0.0000	6.4100e-003	9.7000e-004	0.0000	9.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.2451	0.3271	5.1000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	46.1275	46.1275	0.0146	0.0000	46.4923
Total	**0.0127**	**0.2451**	**0.3271**	**5.1000e-004**	**6.4100e-003**	**0.0104**	**0.0169**	**9.7000e-004**	**0.0104**	**0.0114**	**0.0000**	**46.1275**	**46.1275**	**0.0146**	**0.0000**	**46.4923**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.2000e-004	0.0241	5.1100e-003	6.0000e-005	1.3100e-003	9.0000e-005	1.3900e-003	3.6000e-004	8.0000e-005	4.4000e-004	0.0000	5.9180	5.9180	4.2000e-004	0.0000	5.9284
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1300e-003	9.4000e-004	0.0102	3.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.3701	2.3701	8.0000e-005	0.0000	2.3721
Total	**1.8500e-003**	**0.0250**	**0.0153**	**9.0000e-005**	**3.7800e-003**	**1.1000e-004**	**3.8800e-003**	**1.0100e-003**	**1.0000e-004**	**1.1100e-003**	**0.0000**	**8.2881**	**8.2881**	**5.0000e-004**	**0.0000**	**8.3005**

3.3 Grading - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0488	0.0000	0.0488	5.2700e-003	0.0000	5.2700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0641	0.7626	0.4555	1.0000e-003		0.0292	0.0292		0.0269	0.0269	0.0000	89.6828	89.6828	0.0284	0.0000	90.3922

Total	**0.0641**	**0.7626**	**0.4555**	**1.0000e-003**	**0.0488**	**0.0292**	**0.0780**	**5.2700e-003**	**0.0269**	**0.0322**	**0.0000**	**89.6828**	**89.6828**	**0.0284**	**0.0000**	**90.3922**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	8.6000e-004	9.4000e-003	2.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	2.1805	2.1805	7.0000e-005	0.0000	2.1823
Total	**1.0400e-003**	**8.6000e-004**	**9.4000e-003**	**2.0000e-005**	**2.2700e-003**	**2.0000e-005**	**2.2900e-003**	**6.0000e-004**	**2.0000e-005**	**6.2000e-004**	**0.0000**	**2.1805**	**2.1805**	**7.0000e-005**	**0.0000**	**2.1823**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0190	0.0000	0.0190	2.0500e-003	0.0000	2.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0246	0.4750	0.5323	1.0000e-003		0.0180	0.0180		0.0180	0.0180	0.0000	89.6827	89.6827	0.0284	0.0000	90.3921
Total	**0.0246**	**0.4750**	**0.5323**	**1.0000e-003**	**0.0190**	**0.0180**	**0.0371**	**2.0500e-003**	**0.0180**	**0.0201**	**0.0000**	**89.6827**	**89.6827**	**0.0284**	**0.0000**	**90.3921**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	8.6000e-004	9.4000e-003	2.0000e-005	2.2700e-003	2.0000e-005	2.2900e-003	6.0000e-004	2.0000e-005	6.2000e-004	0.0000	2.1805	2.1805	7.0000e-005	0.0000	2.1823
Total	**1.0400e-003**	**8.6000e-004**	**9.4000e-003**	**2.0000e-005**	**2.2700e-003**	**2.0000e-005**	**2.2900e-003**	**6.0000e-004**	**2.0000e-005**	**6.2000e-004**	**0.0000**	**2.1805**	**2.1805**	**7.0000e-005**	**0.0000**	**2.1823**

3.4 Building Construction - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3923	3.7830	3.1935	6.5300e-003		0.1879	0.1879		0.1810	0.1810	0.0000	574.5924	574.5924	0.1174	0.0000	577.5261
Total	**0.3923**	**3.7830**	**3.1935**	**6.5300e-003**		**0.1879**	**0.1879**		**0.1810**	**0.1810**	**0.0000**	**574.5924**	**574.5924**	**0.1174**	**0.0000**	**577.5261**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0104	0.2895	0.0792	6.3000e-004	0.0154	1.8200e-003	0.0173	4.4600e-003	1.7400e-003	6.2000e-003	0.0000	61.2908	61.2908	4.0900e-003	0.0000	61.3931
Worker	0.0317	0.0264	0.2870	7.4000e-004	0.0693	6.1000e-004	0.0699	0.0184	5.6000e-004	0.0190	0.0000	66.5827	66.5827	2.2900e-003	0.0000	66.6400
Total	**0.0420**	**0.3159**	**0.3662**	**1.3700e-003**	**0.0847**	**2.4300e-003**	**0.0871**	**0.0229**	**2.3000e-003**	**0.0252**	**0.0000**	**127.8735**	**127.8735**	**6.3800e-003**	**0.0000**	**128.0330**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1469	3.0560	4.0475	6.5300e-003		0.1676	0.1676		0.1676	0.1676	0.0000	574.5917	574.5917	0.1174	0.0000	577.5254
Total	**0.1469**	**3.0560**	**4.0475**	**6.5300e-003**		**0.1676**	**0.1676**		**0.1676**	**0.1676**	**0.0000**	**574.5917**	**574.5917**	**0.1174**	**0.0000**	**577.5254**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0104	0.2895	0.0792	6.3000e-004	0.0154	1.8200e-003	0.0173	4.4600e-003	1.7400e-003	6.2000e-003	0.0000	61.2908	61.2908	4.0900e-003	0.0000	61.3931
Worker	0.0317	0.0264	0.2870	7.4000e-004	0.0693	6.1000e-004	0.0699	0.0184	5.6000e-004	0.0190	0.0000	66.5827	66.5827	2.2900e-003	0.0000	66.6400
Total	**0.0420**	**0.3159**	**0.3662**	**1.3700e-003**	**0.0847**	**2.4300e-003**	**0.0871**	**0.0229**	**2.3000e-003**	**0.0252**	**0.0000**	**127.8735**	**127.8735**	**6.3800e-003**	**0.0000**	**128.0330**

3.4 Building Construction - 2020

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5900e-003	0.0535	0.0491	1.0000e-004		2.5700e-003	2.5700e-003		2.4800e-003	2.4800e-003	0.0000	8.8004	8.8004	1.7900e-003	0.0000	8.8452
Total	**5.5900e-003**	**0.0535**	**0.0491**	**1.0000e-004**		**2.5700e-003**	**2.5700e-003**		**2.4800e-003**	**2.4800e-003**	**0.0000**	**8.8004**	**8.8004**	**1.7900e-003**	**0.0000**	**8.8452**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	4.1200e-003	1.1100e-003	1.0000e-005	2.4000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.9440	0.9440	6.0000e-005	0.0000	0.9455
Worker	4.5000e-004	3.6000e-004	4.0300e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	1.0009	1.0009	3.0000e-005	0.0000	1.0017
Total	**5.9000e-004**	**4.4800e-003**	**5.1400e-003**	**2.0000e-005**	**1.3100e-003**	**3.0000e-005**	**1.3400e-003**	**3.6000e-004**	**3.0000e-005**	**3.8000e-004**	**0.0000**	**1.9449**	**1.9449**	**9.0000e-005**	**0.0000**	**1.9472**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.2800e-003	0.0474	0.0628	1.0000e-004		2.6000e-003	2.6000e-003		2.6000e-003	2.6000e-003	0.0000	8.8004	8.8004	1.7900e-003	0.0000	8.8452
Total	**2.2800e-003**	**0.0474**	**0.0628**	**1.0000e-004**		**2.6000e-003**	**2.6000e-003**		**2.6000e-003**	**2.6000e-003**	**0.0000**	**8.8004**	**8.8004**	**1.7900e-003**	**0.0000**	**8.8452**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.4000e-004	4.1200e-003	1.1100e-003	1.0000e-005	2.4000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.9440	0.9440	6.0000e-005	0.0000	0.9455
Worker	4.5000e-004	3.6000e-004	4.0300e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	1.0009	1.0009	3.0000e-005	0.0000	1.0017
Total	**5.9000e-004**	**4.4800e-003**	**5.1400e-003**	**2.0000e-005**	**1.3100e-003**	**3.0000e-005**	**1.3400e-003**	**3.6000e-004**	**3.0000e-005**	**3.8000e-004**	**0.0000**	**1.9449**	**1.9449**	**9.0000e-005**	**0.0000**	**1.9472**

3.5 Paving - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0435	0.5421	0.2712	6.5000e-004		0.0206	0.0206		0.0189	0.0189	0.0000	58.3134	58.3134	0.0185	0.0000	58.7746

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0435**	**0.5421**	**0.2712**	**6.5000e-004**		**0.0206**	**0.0206**		**0.0189**	**0.0189**	**0.0000**	**58.3134**	**58.3134**	**0.0185**	**0.0000**	**58.7746**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	6.9000e-004	7.4900e-003	2.0000e-005	1.8100e-003	2.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.7380	1.7380	6.0000e-005	0.0000	1.7395
Total	**8.3000e-004**	**6.9000e-004**	**7.4900e-003**	**2.0000e-005**	**1.8100e-003**	**2.0000e-005**	**1.8200e-003**	**4.8000e-004**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**1.7380**	**1.7380**	**6.0000e-005**	**0.0000**	**1.7395**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0160	0.3090	0.3463	6.5000e-004		0.0117	0.0117		0.0117	0.0117	0.0000	58.3133	58.3133	0.0185	0.0000	58.7745
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0160**	**0.3090**	**0.3463**	**6.5000e-004**		**0.0117**	**0.0117**		**0.0117**	**0.0117**	**0.0000**	**58.3133**	**58.3133**	**0.0185**	**0.0000**	**58.7745**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	6.9000e-004	7.4900e-003	2.0000e-005	1.8100e-003	2.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.7380	1.7380	6.0000e-005	0.0000	1.7395
Total	**8.3000e-004**	**6.9000e-004**	**7.4900e-003**	**2.0000e-005**	**1.8100e-003**	**2.0000e-005**	**1.8200e-003**	**4.8000e-004**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**1.7380**	**1.7380**	**6.0000e-005**	**0.0000**	**1.7395**

3.5 Paving - 2020

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.7200e-003	0.0454	0.0233	6.0000e-005		1.7200e-003	1.7200e-003		1.5800e-003	1.5800e-003	0.0000	5.1857	5.1857	1.6800e-003	0.0000	5.2276
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.7200e-003**	**0.0454**	**0.0233**	**6.0000e-005**		**1.7200e-003**	**1.7200e-003**		**1.5800e-003**	**1.5800e-003**	**0.0000**	**5.1857**	**5.1857**	**1.6800e-003**	**0.0000**	**5.2276**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	6.0000e-005	6.2000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1532	0.1532	0.0000	0.0000	0.1533
Total	**7.0000e-005**	**6.0000e-005**	**6.2000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**1.7000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1532**	**0.1532**	**0.0000**	**0.0000**	**0.1533**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4500e-003	0.0281	0.0315	6.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	5.1857	5.1857	1.6800e-003	0.0000	5.2276
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.4500e-003**	**0.0281**	**0.0315**	**6.0000e-005**		**1.0700e-003**	**1.0700e-003**		**1.0700e-003**	**1.0700e-003**	**0.0000**	**5.1857**	**5.1857**	**1.6800e-003**	**0.0000**	**5.2276**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	6.0000e-005	6.2000e-004	0.0000	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1532	0.1532	0.0000	0.0000	0.1533
Total	**7.0000e-005**	**6.0000e-005**	**6.2000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**1.7000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1532**	**0.1532**	**0.0000**	**0.0000**	**0.1533**

3.6 Architectural Coating - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0352					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0125	0.0985	0.1118	1.8000e-004		5.9300e-003	5.9300e-003		5.8900e-003	5.8900e-003	0.0000	15.4740	15.4740	2.4100e-003	0.0000	15.5342
Total	**1.0477**	**0.0985**	**0.1118**	**1.8000e-004**		**5.9300e-003**	**5.9300e-003**		**5.8900e-003**	**5.8900e-003**	**0.0000**	**15.4740**	**15.4740**	**2.4100e-003**	**0.0000**	**15.5342**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-003	1.7500e-003	0.0191	5.0000e-005	4.6000e-003	4.0000e-005	4.6400e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4241	4.4241	1.5000e-004	0.0000	4.4279
Total	**2.1000e-003**	**1.7500e-003**	**0.0191**	**5.0000e-005**	**4.6000e-003**	**4.0000e-005**	**4.6400e-003**	**1.2200e-003**	**4.0000e-005**	**1.2600e-003**	**0.0000**	**4.4241**	**4.4241**	**1.5000e-004**	**0.0000**	**4.4279**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0352					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8000e-003	0.0867	0.1171	1.8000e-004		6.0800e-003	6.0800e-003		6.0800e-003	6.0800e-003	0.0000	15.4740	15.4740	2.4100e-003	0.0000	15.5342
Total	**1.0390**	**0.0867**	**0.1171**	**1.8000e-004**		**6.0800e-003**	**6.0800e-003**		**6.0800e-003**	**6.0800e-003**	**0.0000**	**15.4740**	**15.4740**	**2.4100e-003**	**0.0000**	**15.5342**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-003	1.7500e-003	0.0191	5.0000e-005	4.6000e-003	4.0000e-005	4.6400e-003	1.2200e-003	4.0000e-005	1.2600e-003	0.0000	4.4241	4.4241	1.5000e-004	0.0000	4.4279
Total	**2.1000e-003**	**1.7500e-003**	**0.0191**	**5.0000e-005**	**4.6000e-003**	**4.0000e-005**	**4.6400e-003**	**1.2200e-003**	**4.0000e-005**	**1.2600e-003**	**0.0000**	**4.4241**	**4.4241**	**1.5000e-004**	**0.0000**	**4.4279**

3.6 Architectural Coating - 2020

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0493					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	5.4000e-004	4.3300e-003	5.3000e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.7319	0.7319	1.1000e-004	0.0000	0.7347
Total	**0.0498**	**4.3300e-003**	**5.3000e-003**	**1.0000e-005**		**2.4000e-004**	**2.4000e-004**		**2.4000e-004**	**2.4000e-004**	**0.0000**	**0.7319**	**0.7319**	**1.1000e-004**	**0.0000**	**0.7347**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	7.0000e-005	8.2000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2043	0.2043	1.0000e-005	0.0000	0.2044
Total	**9.0000e-005**	**7.0000e-005**	**8.2000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.2043**	**0.2043**	**1.0000e-005**	**0.0000**	**0.2044**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0493					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8000e-004	4.1300e-003	5.5800e-003	1.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	0.7319	0.7319	1.1000e-004	0.0000	0.7347
Total	**0.0495**	**4.1300e-003**	**5.5800e-003**	**1.0000e-005**		**2.9000e-004**	**2.9000e-004**		**2.9000e-004**	**2.9000e-004**	**0.0000**	**0.7319**	**0.7319**	**1.1000e-004**	**0.0000**	**0.7347**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	7.0000e-005	8.2000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2043	0.2043	1.0000e-005	0.0000	0.2044
Total	**9.0000e-005**	**7.0000e-005**	**8.2000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.2043**	**0.2043**	**1.0000e-005**	**0.0000**	**0.2044**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Regulatory Compliance	0.3424	1.8452	5.2089	0.0185	1.5057	0.0157	1.5214	0.4036	0.0147	0.4183	0.0000	1,706.8289	1,706.8289	0.0890	0.0000	1,709.0545
Baseline	0.3424	1.8452	5.2089	0.0185	1.5057	0.0157	1.5214	0.4036	0.0147	0.4183	0.0000	1,706.8289	1,706.8289	0.0890	0.0000	1,709.0545

4.2 Trip Summary Information

	Average Daily Trip Rate			Baseline	Regulatory Compliance
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

General Light Industry	1,160.59	308.87	159.11	3,967,061	3,967,061
Total	1,160.59	308.87	159.11	3,967,061	3,967,061

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Regulatory						0.0000	0.0000		0.0000	0.0000	0.0000	827.5413	827.5413	0.0342	7.0700e-003	830.5019
Electricity Baseline						0.0000	0.0000		0.0000	0.0000	0.0000	827.5413	827.5413	0.0342	7.0700e-003	830.5019
NaturalGas Regulatory	0.0228	0.2076	0.1744	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	226.0045	226.0045	4.3300e-003	4.1400e-003	227.3476
NaturalGas Baseline	0.0228	0.2076	0.1744	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	226.0045	226.0045	4.3300e-003	4.1400e-003	227.3476

5.2 Energy by Land Use - NaturalGas

Baseline

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	4.23516e+006	0.0228	0.2076	0.1744	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	226.0045	226.0045	4.3300e-003	4.1400e-003	227.3476
Total		**0.0228**	**0.2076**	**0.1744**	**1.2500e-003**		**0.0158**	**0.0158**		**0.0158**	**0.0158**	**0.0000**	**226.0045**	**226.0045**	**4.3300e-003**	**4.1400e-003**	**227.3476**

Regulatory Compliance

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	4.23516e+006	0.0228	0.2076	0.1744	1.2500e-003		0.0158	0.0158		0.0158	0.0158	0.0000	226.0045	226.0045	4.3300e-003	4.1400e-003	227.3476
Total		**0.0228**	**0.2076**	**0.1744**	**1.2500e-003**		**0.0158**	**0.0158**		**0.0158**	**0.0158**	**0.0000**	**226.0045**	**226.0045**	**4.3300e-003**	**4.1400e-003**	**227.3476**

5.3 Energy by Land Use - Electricity

Baseline

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	2.59726e+006	827.5413	0.0342	7.0700e-003	830.5019

Total		**827.5413**	**0.0342**	**7.0700e-003**	**830.5019**

Regulatory Compliance

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	2.59726e+006	827.5413	0.0342	7.0700e-003	830.5019
Total		**827.5413**	**0.0342**	**7.0700e-003**	**830.5019**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	tons/yr										MT/yr					
Regulatory Compliance	0.9543	3.0000e-005	3.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.8100e-003	5.8100e-003	2.0000e-005	0.0000	6.1900e-003
Baseline	0.9543	3.0000e-005	3.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.8100e-003	5.8100e-003	2.0000e-005	0.0000	6.1900e-003

6.2 Area by SubCategory

Baseline

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1085					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8000e-004	3.0000e-005	3.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.8100e-003	5.8100e-003	2.0000e-005	0.0000	6.1900e-003
Total	**0.9542**	**3.0000e-005**	**3.0000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.8100e-003**	**5.8100e-003**	**2.0000e-005**	**0.0000**	**6.1900e-003**

Regulatory Compliance

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1085					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.8000e-004	3.0000e-005	3.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.8100e-003	5.8100e-003	2.0000e-005	0.0000	6.1900e-003

Total	**0.9542**	**3.0000e-005**	**3.0000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.8100e-003**	**5.8100e-003**	**2.0000e-005**	**0.0000**	**6.1900e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Regulatory Compliance	193.3259	1.4180	0.0348	239.1572
Baseline	241.6574	1.7725	0.0436	298.9465

7.2 Water by Land Use

Baseline

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	54.1102 / 0	241.6574	1.7725	0.0436	298.9465

Total		**241.6574**	**1.7725**	**0.0436**	**298.9465**

Regulatory Compliance

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	43.2882 / 0	193.3259	1.4180	0.0348	239.1572
Total		**193.3259**	**1.4180**	**0.0348**	**239.1572**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Regulatory Compliance	58.8978	3.4808	0.0000	145.9169
Baseline	58.8978	3.4808	0.0000	145.9169

8.2 Waste by Land Use

Baseline

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	290.15	58.8978	3.4808	0.0000	145.9169
Total		**58.8978**	**3.4808**	**0.0000**	**145.9169**

Regulatory Compliance

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	290.15	58.8978	3.4808	0.0000	145.9169
Total		**58.8978**	**3.4808**	**0.0000**	**145.9169**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix B.5

Summer—Proposed

5010 Azusa Canyon Road (Project)

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	233.99	1000sqft	10.00	233,987.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on 10 acre site

Construction Phase - Construction duration: 9 months total

Off-road Equipment - Two manlifts, two compressors

Off-road Equipment - Six generators, two loaders, one water truck, four excavators, one crane for a week, laser screed, concrete pump, one asphalt tanker

Off-road Equipment - Two excavators, two loaders

Off-road Equipment - Four scrapers, one blade, one loader & one water truck

Off-road Equipment - Two scrapers, one loaders, two bobcats, laser screed

Trips and VMT - Location of landfill TBD

Demolition - Three buildings totaling 33,420 square feet exist on the site that would be demolished. The majority of the onsite buildings and pavement consisting of concrete and asphalt will be crushed and used onsite as base.

Grading -

Vehicle Trips - Based on traffic trip generation of 1,161 trips

Construction Off-road Equipment Mitigation - 'Per CARB Title 13 CCR Section 2520-2427, equipment required to be Tier 4 Final for new equipment. Project will utilize Tier 3 as Tier IV not available yet in commercial/industrial construction.

Area Mitigation - SCAQMD Rule 1113 - Architectural Coating

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	131.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	PhaseEndDate	6/5/2020	1/2/2020
tblConstructionPhase	PhaseEndDate	4/10/2020	1/2/2020
tblConstructionPhase	PhaseEndDate	4/26/2019	5/31/2019
tblConstructionPhase	PhaseEndDate	5/24/2019	7/3/2019
tblConstructionPhase	PhaseEndDate	5/8/2020	1/2/2020
tblConstructionPhase	PhaseStartDate	5/9/2020	11/2/2019
tblConstructionPhase	PhaseStartDate	5/25/2019	7/4/2019
tblConstructionPhase	PhaseStartDate	4/27/2019	6/1/2019
tblConstructionPhase	PhaseStartDate	4/11/2020	12/2/2019
tblLandUse	LandUseSquareFeet	233,990.00	233,987.00
tblLandUse	LotAcreage	5.37	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Architectural Coating
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	UsageHours	7.00	1.00
tblVehicleTrips	WD_TR	6.97	4.96

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Baseline Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	60.7476	117.5149	87.0637	0.1948	4.4432	5.1073	6.9869	0.5114	4.8478	5.3121	0.0000	19,148.3966	19,148.3966	4.1041	0.0000	19,250.9991
2020	59.8936	107.6724	84.5392	0.1942	1.7299	4.5664	6.2963	0.4643	4.3303	4.7946	0.0000	18,840.8416	18,840.8416	4.0595	0.0000	18,942.3287
Maximum	**60.7476**	**117.5149**	**87.0637**	**0.1948**	**4.4432**	**5.1073**	**6.9869**	**0.5114**	**4.8478**	**5.3121**	**0.0000**	**19,148.3966**	**19,148.3966**	**4.1041**	**0.0000**	**19,250.9991**

Regulatory Compliance Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	54.0315	84.4899	107.3942	0.1948	1.8556	3.9938	5.7237	0.4643	3.9916	4.4559	0.0000	19,148.3966	19,148.3966	4.1041	0.0000	19,250.9991
2020	53.9564	84.0815	106.6969	0.1942	1.7299	3.9844	5.7143	0.4643	3.9826	4.4469	0.0000	18,840.8416	18,840.8416	4.0595	0.0000	18,942.3287
Maximum	**54.0315**	**84.4899**	**107.3942**	**0.1948**	**1.8556**	**3.9938**	**5.7237**	**0.4643**	**3.9916**	**4.4559**	**0.0000**	**19,148.3966**	**19,148.3966**	**4.1041**	**0.0000**	**19,250.9991**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**10.49**	**25.14**	**-24.76**	**0.00**	**41.92**	**17.53**	**13.89**	**4.83**	**13.12**	**11.91**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Baseline Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.2295	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.4000e-004		0.0546
Energy	0.1251	1.1376	0.9556	6.8300e-003		0.0865	0.0865		0.0865	0.0865		1,365.0813	1,365.0813	0.0262	0.0250	1,373.1933
Mobile	2.5554	12.4972	38.7686	0.1366	10.9286	0.1117	11.0403	2.9248	0.1043	3.0291		13,878.5166	13,878.5166	0.7060		13,896.1655
Total	**7.9099**	**13.6350**	**39.7481**	**0.1434**	**10.9286**	**0.1983**	**11.1268**	**2.9248**	**0.1909**	**3.1156**		**15,243.6491**	**15,243.6491**	**0.7323**	**0.0250**	**15,269.4134**

Regulatory Compliance Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.2295	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.4000e-004		0.0546
Energy	0.1251	1.1376	0.9556	6.8300e-003		0.0865	0.0865		0.0865	0.0865		1,365.0813	1,365.0813	0.0262	0.0250	1,373.1933
Mobile	2.5554	12.4972	38.7686	0.1366	10.9286	0.1117	11.0403	2.9248	0.1043	3.0291		13,878.5166	13,878.5166	0.7060		13,896.1655
Total	**7.9099**	**13.6350**	**39.7481**	**0.1434**	**10.9286**	**0.1983**	**11.1268**	**2.9248**	**0.1909**	**3.1156**		**15,243.6491**	**15,243.6491**	**0.7323**	**0.0250**	**15,269.4134**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description

1	Demolition	Demolition	4/1/2019	5/31/2019	5	45	
2	Grading	Grading	6/1/2019	7/3/2019	5	23	
3	Building Construction	Building Construction	7/4/2019	1/2/2020	5	131	
4	Paving	Paving	12/2/2019	1/2/2020	5	24	
5	Architectural Coating	Architectural Coating	11/2/2019	1/2/2020	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 92

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 350,981; Non-Residential Outdoor: 116,994; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Loaders	2	8.00	203	0.36
Grading	Off-Highway Trucks	1	8.00	402	0.38
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	4	8.00	367	0.48
Grading	Surfacing Equipment	1	8.00	263	0.30
Building Construction	Cranes	1	1.00	231	0.29
Building Construction	Excavators	4	8.00	158	0.38
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Other General Industrial Equipment	1	4.00	88	0.34
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Rubber Tired Loaders	2	8.00	203	0.36
Building Construction	Surfacing Equipment	1	8.00	263	0.30
Paving	Crawler Tractors	2	8.00	212	0.43
Paving	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Scrapers	2	8.00	367	0.48

Paving	Surfacing Equipment	1	8.00	263	0.30
Architectural Coating	Aerial Lifts	2	6.00	63	0.31
Architectural Coating	Air Compressors	2	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	152.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	17	98.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	4	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7311	0.0000	0.7311	0.1107	0.0000	0.1107			0.0000			0.0000
Off-Road	1.3190	15.0165	9.8840	0.0228		0.5823	0.5823		0.5357	0.5357		2,259.8623	2,259.8623	0.7150		2,277.7372
Total	**1.3190**	**15.0165**	**9.8840**	**0.0228**	**0.7311**	**0.5823**	**1.3134**	**0.1107**	**0.5357**	**0.6464**		**2,259.8623**	**2,259.8623**	**0.7150**		**2,277.7372**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0317	1.0346	0.2206	2.7000e-003	0.0591	3.8000e-003	0.0629	0.0162	3.6300e-003	0.0198		292.0129	292.0129	0.0201		292.5156
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0500	0.0367	0.4822	1.2200e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		121.2953	121.2953	4.1700e-003		121.3995
Total	**0.0817**	**1.0713**	**0.7027**	**3.9200e-003**	**0.1708**	**4.7600e-003**	**0.1756**	**0.0458**	**4.5200e-003**	**0.0504**		**413.3082**	**413.3082**	**0.0243**		**413.9151**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2851	0.0000	0.2851	0.0432	0.0000	0.0432			0.0000			0.0000
Off-Road	0.5635	10.8940	14.5384	0.0228		0.4641	0.4641		0.4641	0.4641	0.0000	2,259.8623	2,259.8623	0.7150		2,277.7372
Total	**0.5635**	**10.8940**	**14.5384**	**0.0228**	**0.2851**	**0.4641**	**0.7492**	**0.0432**	**0.4641**	**0.5072**	**0.0000**	**2,259.8623**	**2,259.8623**	**0.7150**		**2,277.7372**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0317	1.0346	0.2206	2.7000e-003	0.0591	3.8000e-003	0.0629	0.0162	3.6300e-003	0.0198		292.0129	292.0129	0.0201		292.5156
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0500	0.0367	0.4822	1.2200e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		121.2953	121.2953	4.1700e-003		121.3995
Total	**0.0817**	**1.0713**	**0.7027**	**3.9200e-003**	**0.1708**	**4.7600e-003**	**0.1756**	**0.0458**	**4.5200e-003**	**0.0504**		**413.3082**	**413.3082**	**0.0243**		**413.9151**

3.3 Grading - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Fugitive Dust					4.2420	0.0000	4.2420	0.4580	0.0000	0.4580			0.0000			0.0000
Off-Road	5.5722	66.3145	39.6111	0.0868		2.5420	2.5420		2.3386	2.3386		8,596.3819	8,596.3819	2.7198		8,664.3770
Total	**5.5722**	**66.3145**	**39.6111**	**0.0868**	**4.2420**	**2.5420**	**6.7840**	**0.4580**	**2.3386**	**2.7967**		**8,596.3819**	**8,596.3819**	**2.7198**		**8,664.3770**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0899	0.0661	0.8679	2.1900e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		218.3315	218.3315	7.5000e-003		218.5190

Total	**0.0899**	**0.0661**	**0.8679**	**2.1900e-003**	**0.2012**	**1.7300e-003**	**0.2029**	**0.0534**	**1.6000e-003**	**0.0550**		**218.3315**	**218.3315**	**7.5000e-003**		**218.5190**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6544	0.0000	1.6544	0.1786	0.0000	0.1786			0.0000			0.0000
Off-Road	2.1363	41.3016	46.2863	0.0868		1.5666	1.5666		1.5666	1.5666	0.0000	8,596.3819	8,596.3819	2.7198		8,664.3770
Total	**2.1363**	**41.3016**	**46.2863**	**0.0868**	**1.6544**	**1.5666**	**3.2210**	**0.1786**	**1.5666**	**1.7452**	**0.0000**	**8,596.3819**	**8,596.3819**	**2.7198**		**8,664.3770**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0899	0.0661	0.8679	2.1900e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		218.3315	218.3315	7.5000e-003		218.5190
Total	**0.0899**	**0.0661**	**0.8679**	**2.1900e-003**	**0.2012**	**1.7300e-003**	**0.2029**	**0.0534**	**1.6000e-003**	**0.0550**		**218.3315**	**218.3315**	**7.5000e-003**		**218.5190**

3.4 Building Construction - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.0820	58.6515	49.5115	0.1012		2.9124	2.9124		2.8069	2.8069		9,819.8399	9,819.8399	2.0055		9,869.9776
Total	**6.0820**	**58.6515**	**49.5115**	**0.1012**		**2.9124**	**2.9124**		**2.8069**	**2.8069**		**9,819.8399**	**9,819.8399**	**2.0055**		**9,869.9776**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1579	4.3977	1.1669	9.9300e-003	0.2433	0.0280	0.2713	0.0700	0.0268	0.0969		1,059.4956	1,059.4956	0.0679		1,061.1929
Worker	0.4896	0.3598	4.7252	0.0119	1.0954	9.4500e-003	1.1049	0.2905	8.7000e-003	0.2992		1,188.6938	1,188.6938	0.0408		1,189.7146
Total	**0.6475**	**4.7575**	**5.8921**	**0.0219**	**1.3387**	**0.0375**	**1.3762**	**0.3606**	**0.0355**	**0.3961**		**2,248.1894**	**2,248.1894**	**0.1087**		**2,250.9075**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	2.2782	47.3793	62.7522	0.1012		2.5979	2.5979		2.5979	2.5979	0.0000	9,819.8399	9,819.8399	2.0055		9,869.9776
Total	**2.2782**	**47.3793**	**62.7522**	**0.1012**		**2.5979**	**2.5979**		**2.5979**	**2.5979**	**0.0000**	**9,819.8399**	**9,819.8399**	**2.0055**		**9,869.9776**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1579	4.3977	1.1669	9.9300e-003	0.2433	0.0280	0.2713	0.0700	0.0268	0.0969		1,059.4956	1,059.4956	0.0679		1,061.1929
Worker	0.4896	0.3598	4.7252	0.0119	1.0954	9.4500e-003	1.1049	0.2905	8.7000e-003	0.2992		1,188.6938	1,188.6938	0.0408		1,189.7146
Total	**0.6475**	**4.7575**	**5.8921**	**0.0219**	**1.3387**	**0.0375**	**1.3762**	**0.3606**	**0.0355**	**0.3961**		**2,248.1894**	**2,248.1894**	**0.1087**		**2,250.9075**

3.4 Building Construction - 2020

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.5856	53.4955	49.1037	0.1012		2.5741	2.5741		2.4790	2.4790		9,700.8201	9,700.8201	1.9747		9,750.1874
Total	**5.5856**	**53.4955**	**49.1037**	**0.1012**		**2.5741**	**2.5741**		**2.4790**	**2.4790**		**9,700.8201**	**9,700.8201**	**1.9747**		**9,750.1874**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1352	4.0422	1.0591	9.8600e-003	0.2433	0.0190	0.2623	0.0700	0.0182	0.0882		1,052.6938	1,052.6938	0.0642		1,054.2998
Worker	0.4510	0.3208	4.2909	0.0116	1.0954	9.1600e-003	1.1046	0.2905	8.4400e-003	0.2989		1,152.5906	1,152.5906	0.0363		1,153.4991
Total	**0.5862**	**4.3630**	**5.3500**	**0.0214**	**1.3387**	**0.0282**	**1.3669**	**0.3606**	**0.0266**	**0.3872**		**2,205.2845**	**2,205.2845**	**0.1006**		**2,207.7989**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2782	47.3793	62.7522	0.1012		2.5979	2.5979		2.5979	2.5979	0.0000	9,700.8201	9,700.8201	1.9747		9,750.1874
Total	**2.2782**	**47.3793**	**62.7522**	**0.1012**		**2.5979**	**2.5979**		**2.5979**	**2.5979**	**0.0000**	**9,700.8201**	**9,700.8201**	**1.9747**		**9,750.1874**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1352	4.0422	1.0591	9.8600e-003	0.2433	0.0190	0.2623	0.0700	0.0182	0.0882		1,052.6938	1,052.6938	0.0642		1,054.2998
Worker	0.4510	0.3208	4.2909	0.0116	1.0954	9.1600e-003	1.1046	0.2905	8.4400e-003	0.2989		1,152.5906	1,152.5906	0.0363		1,153.4991
Total	**0.5862**	**4.3630**	**5.3500**	**0.0214**	**1.3387**	**0.0282**	**1.3669**	**0.3606**	**0.0266**	**0.3872**		**2,205.2845**	**2,205.2845**	**0.1006**		**2,207.7989**

3.5 Paving - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Off-Road	3.9524	49.2854	24.6506	0.0590		1.8715	1.8715		1.7218	1.7218		5,843.5873	5,843.5873	1.8489		5,889.8085
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.9524**	**49.2854**	**24.6506**	**0.0590**		**1.8715**	**1.8715**		**1.7218**	**1.7218**		**5,843.5873**	**5,843.5873**	**1.8489**		**5,889.8085**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0749	0.0551	0.7233	1.8300e-003	0.1677	1.4500e-003	0.1691	0.0445	1.3300e-003	0.0458		181.9429	181.9429	6.2500e-003		182.0992

Total	**0.0749**	**0.0551**	**0.7233**	**1.8300e-003**	**0.1677**	**1.4500e-003**	**0.1691**	**0.0445**	**1.3300e-003**	**0.0458**		**181.9429**	**181.9429**	**6.2500e-003**		**182.0992**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4532	28.0950	31.4858	0.0590		1.0657	1.0657		1.0657	1.0657	0.0000	5,843.5873	5,843.5873	1.8489		5,889.8085
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4532**	**28.0950**	**31.4858**	**0.0590**		**1.0657**	**1.0657**		**1.0657**	**1.0657**	**0.0000**	**5,843.5873**	**5,843.5873**	**1.8489**		**5,889.8085**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0749	0.0551	0.7233	1.8300e-003	0.1677	1.4500e-003	0.1691	0.0445	1.3300e-003	0.0458		181.9429	181.9429	6.2500e-003		182.0992
Total	**0.0749**	**0.0551**	**0.7233**	**1.8300e-003**	**0.1677**	**1.4500e-003**	**0.1691**	**0.0445**	**1.3300e-003**	**0.0458**		**181.9429**	**181.9429**	**6.2500e-003**		**182.0992**

3.5 Paving - 2020

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7202	45.3661	23.2489	0.0590		1.7175	1.7175		1.5801	1.5801		5,716.2717	5,716.2717	1.8488		5,762.4907
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.7202**	**45.3661**	**23.2489**	**0.0590**		**1.7175**	**1.7175**		**1.5801**	**1.5801**		**5,716.2717**	**5,716.2717**	**1.8488**		**5,762.4907**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	1.4532	28.0950	31.4858	0.0590		1.0657	1.0657		1.0657	1.0657	0.0000	5,716.2717	5,716.2717	1.8488		5,762.4907
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4532**	**28.0950**	**31.4858**	**0.0590**		**1.0657**	**1.0657**		**1.0657**	**1.0657**	**0.0000**	**5,716.2717**	**5,716.2717**	**1.8488**		**5,762.4907**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

3.6 Architectural Coating - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	49.2969					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5940	4.6920	5.3218	8.4600e-003		0.2826	0.2826		0.2806	0.2806		812.2465	812.2465	0.1264		815.4074
Total	**49.8909**	**4.6920**	**5.3218**	**8.4600e-003**		**0.2826**	**0.2826**		**0.2806**	**0.2806**		**812.2465**	**812.2465**	**0.1264**		**815.4074**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0999	0.0734	0.9643	2.4400e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		242.5906	242.5906	8.3300e-003		242.7989
Total	**0.0999**	**0.0734**	**0.9643**	**2.4400e-003**	**0.2236**	**1.9300e-003**	**0.2255**	**0.0593**	**1.7800e-003**	**0.0611**		**242.5906**	**242.5906**	**8.3300e-003**		**242.7989**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	49.2969					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1809	4.1296	5.5765	8.4600e-003		0.2894	0.2894		0.2894	0.2894	0.0000	812.2465	812.2465	0.1264		815.4074
Total	**49.4778**	**4.1296**	**5.5765**	**8.4600e-003**		**0.2894**	**0.2894**		**0.2894**	**0.2894**	**0.0000**	**812.2465**	**812.2465**	**0.1264**		**815.4074**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0999	0.0734	0.9643	2.4400e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		242.5906	242.5906	8.3300e-003		242.7989
Total	**0.0999**	**0.0734**	**0.9643**	**2.4400e-003**	**0.2236**	**1.9300e-003**	**0.2255**	**0.0593**	**1.7800e-003**	**0.0611**		**242.5906**	**242.5906**	**8.3300e-003**		**242.7989**

3.6 Architectural Coating - 2020

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Archit. Coating	49.2969					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5437	4.3331	5.3042	8.4600e-003		0.2434	0.2434		0.2416	0.2416		806.8259	806.8259	0.1225		809.8877
Total	**49.8406**	**4.3331**	**5.3042**	**8.4600e-003**		**0.2434**	**0.2434**		**0.2416**	**0.2416**		**806.8259**	**806.8259**	**0.1225**		**809.8877**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080

Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	49.2969					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1809	4.1296	5.5765	8.4600e-003		0.2894	0.2894		0.2894	0.2894	0.0000	806.8259	806.8259	0.1225		809.8877
Total	**49.4778**	**4.1296**	**5.5765**	**8.4600e-003**		**0.2894**	**0.2894**		**0.2894**	**0.2894**	**0.0000**	**806.8259**	**806.8259**	**0.1225**		**809.8877**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0655	0.8757	2.3600e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		235.2226	235.2226	7.4200e-003		235.4080
Total	**0.0920**	**0.0655**	**0.8757**	**2.3600e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**235.2226**	**235.2226**	**7.4200e-003**		**235.4080**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Regulatory Compliance	2.5554	12.4972	38.7686	0.1366	10.9286	0.1117	11.0403	2.9248	0.1043	3.0291		13,878.5166	13,878.5166	0.7060		13,896.1655
Baseline	2.5554	12.4972	38.7686	0.1366	10.9286	0.1117	11.0403	2.9248	0.1043	3.0291		13,878.5166	13,878.5166	0.7060		13,896.1655

4.2 Trip Summary Information

	Average Daily Trip Rate			Baseline	Regulatory Compliance
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	1,160.59	308.87	159.11	3,967,061	3,967,061
Total	1,160.59	308.87	159.11	3,967,061	3,967,061

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Regulatory Compliance	0.1251	1.1376	0.9556	6.8300e-003		0.0865	0.0865		0.0865	0.0865		1,365.0813	1,365.0813	0.0262	0.0250	1,373.1933
NaturalGas Baseline	0.1251	1.1376	0.9556	6.8300e-003		0.0865	0.0865		0.0865	0.0865		1,365.0813	1,365.0813	0.0262	0.0250	1,373.1933

5.2 Energy by Land Use - NaturalGas

Baseline

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	11603.2	0.1251	1.1376	0.9556	6.8300e-003		0.0865	0.0865		0.0865	0.0865		1,365.0813	1,365.0813	0.0262	0.0250	1,373.1933
Total		**0.1251**	**1.1376**	**0.9556**	**6.8300e-003**		**0.0865**	**0.0865**		**0.0865**	**0.0865**		**1,365.0813**	**1,365.0813**	**0.0262**	**0.0250**	**1,373.1933**

Regulatory Compliance

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	11.6032	0.1251	1.1376	0.9556	6.8300e-003		0.0865	0.0865		0.0865	0.0865		1,365.0813	1,365.0813	0.0262	0.0250	1,373.1933
Total		**0.1251**	**1.1376**	**0.9556**	**6.8300e-003**		**0.0865**	**0.0865**		**0.0865**	**0.0865**		**1,365.0813**	**1,365.0813**	**0.0262**	**0.0250**	**1,373.1933**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Regulatory Compliance	5.2295	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.4000e-004		0.0546
Baseline	5.2295	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.4000e-004		0.0546

6.2 Area by SubCategory

Baseline

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.6329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2400e-003	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.4000e-004		0.0546
Total	**5.2294**	**2.2000e-004**	**0.0240**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0512**	**0.0512**	**1.4000e-004**		**0.0546**

Regulatory Compliance

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.6329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2400e-003	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.4000e-004		0.0546
Total	**5.2294**	**2.2000e-004**	**0.0240**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0512**	**0.0512**	**1.4000e-004**		**0.0546**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix B.6

Winter—Proposed

5010 Azusa Canyon Road (Project)

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	233.99	1000sqft	10.00	233,987.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on 10 acre site

Construction Phase - Construction duration: 9 months total

Off-road Equipment - Two manlifts, two compressors

Off-road Equipment - Six generators, two loaders, one water truck, four excavators, one crane for a week, laser screed, concrete pump, one asphalt tanker

Off-road Equipment - Two excavators, two loaders

Off-road Equipment - Four scrapers, one blade, one loader & one water truck

Off-road Equipment - Two scrapers, one loaders, two bobcats, laser screed

Trips and VMT - Location of landfill TBD

Demolition - Three buildings totaling 33,420 square feet exist on the site that would be demolished. The majority of the onsite buildings and pavement consisting of concrete and asphalt will be crushed and used onsite as base.

Grading -

Vehicle Trips - Based on traffic trip generation of 1,161 trips

Construction Off-road Equipment Mitigation - 'Per CARB Title 13 CCR Section 2520-2427, equipment required to be Tier 4 Final for new equipment. Project will utilize Tier 3 as Tier IV not available yet in commercial/industrial construction.

Area Mitigation - SCAQMD Rule 1113 - Architectural Coating

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentRegulatoryCompliance	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	131.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	PhaseEndDate	6/5/2020	1/2/2020
tblConstructionPhase	PhaseEndDate	4/10/2020	1/2/2020
tblConstructionPhase	PhaseEndDate	4/26/2019	5/31/2019
tblConstructionPhase	PhaseEndDate	5/24/2019	7/3/2019
tblConstructionPhase	PhaseEndDate	5/8/2020	1/2/2020
tblConstructionPhase	PhaseStartDate	5/9/2020	11/2/2019
tblConstructionPhase	PhaseStartDate	5/25/2019	7/4/2019
tblConstructionPhase	PhaseStartDate	4/27/2019	6/1/2019
tblConstructionPhase	PhaseStartDate	4/11/2020	12/2/2019
tblLandUse	LandUseSquareFeet	233,990.00	233,987.00
tblLandUse	LotAcreage	5.37	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Architectural Coating
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Paving
tblOffRoadEquipment	UsageHours	7.00	1.00
tblVehicleTrips	WD_TR	6.97	4.96

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Baseline Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	60.8265	117.5733	86.6551	0.1936	4.4432	5.1078	6.9869	0.5114	4.8483	5.3126	0.0000	19,025.5608	19,025.5608	4.1055	0.0000	19,128.1974
2020	59.9673	107.7182	84.1583	0.1931	1.7299	4.5667	6.2966	0.4643	4.3306	4.7949	0.0000	18,720.6932	18,720.6932	4.0608	0.0000	18,822.2137
Maximum	**60.8265**	**117.5733**	**86.6551**	**0.1936**	**4.4432**	**5.1078**	**6.9869**	**0.5114**	**4.8483**	**5.3126**	**0.0000**	**19,025.5608**	**19,025.5608**	**4.1055**	**0.0000**	**19,128.1974**

Regulatory Compliance Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	54.1104	84.5483	106.9856	0.1936	1.8556	3.9943	5.7242	0.4643	3.9920	4.4563	0.0000	19,025.5607	19,025.5607	4.1055	0.0000	19,128.1973
2020	54.0301	84.1273	106.3160	0.1931	1.7299	3.9847	5.7146	0.4643	3.9829	4.4472	0.0000	18,720.6932	18,720.6932	4.0608	0.0000	18,822.2137
Maximum	**54.1104**	**84.5483**	**106.9856**	**0.1936**	**1.8556**	**3.9943**	**5.7242**	**0.4643**	**3.9920**	**4.4563**	**0.0000**	**19,025.5607**	**19,025.5607**	**4.1055**	**0.0000**	**19,128.1973**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**10.48**	**25.13**	**-24.87**	**0.00**	**41.92**	**17.53**	**13.89**	**4.83**	**13.12**	**11.91**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Baseline Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.2295	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.4000e-004		0.0546
Energy	0.1251	1.1376	0.9556	6.8300e-003		0.0865	0.0865		0.0865	0.0865		1,365.0813	1,365.0813	0.0262	0.0250	1,373.1933
Mobile	2.4841	12.8885	36.4600	0.1299	10.9286	0.1122	11.0407	2.9248	0.1047	3.0295		13,214.2095	13,214.2095	0.6996		13,231.7004
Total	**7.8387**	**14.0263**	**37.4395**	**0.1368**	**10.9286**	**0.1987**	**11.1273**	**2.9248**	**0.1913**	**3.1161**		**14,579.3420**	**14,579.3420**	**0.7259**	**0.0250**	**14,604.9483**

Regulatory Compliance Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.2295	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.4000e-004		0.0546
Energy	0.1251	1.1376	0.9556	6.8300e-003		0.0865	0.0865		0.0865	0.0865		1,365.0813	1,365.0813	0.0262	0.0250	1,373.1933
Mobile	2.4841	12.8885	36.4600	0.1299	10.9286	0.1122	11.0407	2.9248	0.1047	3.0295		13,214.2095	13,214.2095	0.6996		13,231.7004
Total	**7.8387**	**14.0263**	**37.4395**	**0.1368**	**10.9286**	**0.1987**	**11.1273**	**2.9248**	**0.1913**	**3.1161**		**14,579.3420**	**14,579.3420**	**0.7259**	**0.0250**	**14,604.9483**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description

1	Demolition	Demolition	4/1/2019	5/31/2019	5	45	
2	Grading	Grading	6/1/2019	7/3/2019	5	23	
3	Building Construction	Building Construction	7/4/2019	1/2/2020	5	131	
4	Paving	Paving	12/2/2019	1/2/2020	5	24	
5	Architectural Coating	Architectural Coating	11/2/2019	1/2/2020	5	44	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 92

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 350,981; Non-Residential Outdoor: 116,994; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Loaders	2	8.00	203	0.36
Grading	Off-Highway Trucks	1	8.00	402	0.38
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	4	8.00	367	0.48
Grading	Surfacing Equipment	1	8.00	263	0.30
Building Construction	Cranes	1	1.00	231	0.29
Building Construction	Excavators	4	8.00	158	0.38
Building Construction	Generator Sets	6	8.00	84	0.74
Building Construction	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Other General Industrial Equipment	1	4.00	88	0.34
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Rubber Tired Loaders	2	8.00	203	0.36
Building Construction	Surfacing Equipment	1	8.00	263	0.30
Paving	Crawler Tractors	2	8.00	212	0.43
Paving	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Scrapers	2	8.00	367	0.48

Paving	Surfacing Equipment	1	8.00	263	0.30
Architectural Coating	Aerial Lifts	2	6.00	63	0.31
Architectural Coating	Air Compressors	2	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	152.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	17	98.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	4	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7311	0.0000	0.7311	0.1107	0.0000	0.1107			0.0000			0.0000
Off-Road	1.3190	15.0165	9.8840	0.0228		0.5823	0.5823		0.5357	0.5357		2,259.8623	2,259.8623	0.7150		2,277.7372
Total	**1.3190**	**15.0165**	**9.8840**	**0.0228**	**0.7311**	**0.5823**	**1.3134**	**0.1107**	**0.5357**	**0.6464**		**2,259.8623**	**2,259.8623**	**0.7150**		**2,277.7372**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0325	1.0484	0.2355	2.6500e-003	0.0591	3.8700e-003	0.0629	0.0162	3.7000e-003	0.0199		287.0603	287.0603	0.0209		287.5823
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0407	0.4425	1.1500e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		114.2131	114.2131	3.9300e-003		114.3113
Total	**0.0879**	**1.0890**	**0.6780**	**3.8000e-003**	**0.1708**	**4.8300e-003**	**0.1757**	**0.0458**	**4.5900e-003**	**0.0504**		**401.2734**	**401.2734**	**0.0248**		**401.8936**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2851	0.0000	0.2851	0.0432	0.0000	0.0432			0.0000			0.0000
Off-Road	0.5635	10.8940	14.5384	0.0228		0.4641	0.4641		0.4641	0.4641	0.0000	2,259.8623	2,259.8623	0.7150		2,277.7372
Total	**0.5635**	**10.8940**	**14.5384**	**0.0228**	**0.2851**	**0.4641**	**0.7492**	**0.0432**	**0.4641**	**0.5072**	**0.0000**	**2,259.8623**	**2,259.8623**	**0.7150**		**2,277.7372**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0325	1.0484	0.2355	2.6500e-003	0.0591	3.8700e-003	0.0629	0.0162	3.7000e-003	0.0199		287.0603	287.0603	0.0209		287.5823
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0407	0.4425	1.1500e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		114.2131	114.2131	3.9300e-003		114.3113
Total	**0.0879**	**1.0890**	**0.6780**	**3.8000e-003**	**0.1708**	**4.8300e-003**	**0.1757**	**0.0458**	**4.5900e-003**	**0.0504**		**401.2734**	**401.2734**	**0.0248**		**401.8936**

3.3 Grading - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Fugitive Dust					4.2420	0.0000	4.2420	0.4580	0.0000	0.4580			0.0000			0.0000
Off-Road	5.5722	66.3145	39.6111	0.0868		2.5420	2.5420		2.3386	2.3386		8,596.3819	8,596.3819	2.7198		8,664.3770
Total	**5.5722**	**66.3145**	**39.6111**	**0.0868**	**4.2420**	**2.5420**	**6.7840**	**0.4580**	**2.3386**	**2.7967**		**8,596.3819**	**8,596.3819**	**2.7198**		**8,664.3770**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0997	0.0732	0.7965	2.0700e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		205.5836	205.5836	7.0700e-003		205.7604

Total	**0.0997**	**0.0732**	**0.7965**	**2.0700e-003**	**0.2012**	**1.7300e-003**	**0.2029**	**0.0534**	**1.6000e-003**	**0.0550**		**205.5836**	**205.5836**	**7.0700e-003**		**205.7604**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.6544	0.0000	1.6544	0.1786	0.0000	0.1786			0.0000			0.0000
Off-Road	2.1363	41.3016	46.2863	0.0868		1.5666	1.5666		1.5666	1.5666	0.0000	8,596.3819	8,596.3819	2.7198		8,664.3770
Total	**2.1363**	**41.3016**	**46.2863**	**0.0868**	**1.6544**	**1.5666**	**3.2210**	**0.1786**	**1.5666**	**1.7452**	**0.0000**	**8,596.3819**	**8,596.3819**	**2.7198**		**8,664.3770**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0997	0.0732	0.7965	2.0700e-003	0.2012	1.7300e-003	0.2029	0.0534	1.6000e-003	0.0550		205.5836	205.5836	7.0700e-003		205.7604
Total	**0.0997**	**0.0732**	**0.7965**	**2.0700e-003**	**0.2012**	**1.7300e-003**	**0.2029**	**0.0534**	**1.6000e-003**	**0.0550**		**205.5836**	**205.5836**	**7.0700e-003**		**205.7604**

3.4 Building Construction - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.0820	58.6515	49.5115	0.1012		2.9124	2.9124		2.8069	2.8069		9,819.8399	9,819.8399	2.0055		9,869.9776
Total	**6.0820**	**58.6515**	**49.5115**	**0.1012**		**2.9124**	**2.9124**		**2.8069**	**2.8069**		**9,819.8399**	**9,819.8399**	**2.0055**		**9,869.9776**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1647	4.4036	1.2862	9.6700e-003	0.2433	0.0285	0.2718	0.0700	0.0273	0.0973		1,030.8530	1,030.8530	0.0724		1,032.6634
Worker	0.5427	0.3985	4.3363	0.0112	1.0954	9.4500e-003	1.1049	0.2905	8.7000e-003	0.2992		1,119.2882	1,119.2882	0.0385		1,120.2508
Total	**0.7074**	**4.8021**	**5.6225**	**0.0209**	**1.3387**	**0.0380**	**1.3766**	**0.3606**	**0.0360**	**0.3965**		**2,150.1412**	**2,150.1412**	**0.1109**		**2,152.9143**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	2.2782	47.3793	62.7522	0.1012		2.5979	2.5979		2.5979	2.5979	0.0000	9,819.8399	9,819.8399	2.0055		9,869.9776
Total	**2.2782**	**47.3793**	**62.7522**	**0.1012**		**2.5979**	**2.5979**		**2.5979**	**2.5979**	**0.0000**	**9,819.8399**	**9,819.8399**	**2.0055**		**9,869.9776**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1647	4.4036	1.2862	9.6700e-003	0.2433	0.0285	0.2718	0.0700	0.0273	0.0973		1,030.8530	1,030.8530	0.0724		1,032.6634
Worker	0.5427	0.3985	4.3363	0.0112	1.0954	9.4500e-003	1.1049	0.2905	8.7000e-003	0.2992		1,119.2882	1,119.2882	0.0385		1,120.2508
Total	**0.7074**	**4.8021**	**5.6225**	**0.0209**	**1.3387**	**0.0380**	**1.3766**	**0.3606**	**0.0360**	**0.3965**		**2,150.1412**	**2,150.1412**	**0.1109**		**2,152.9143**

3.4 Building Construction - 2020

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.5856	53.4955	49.1037	0.1012		2.5741	2.5741		2.4790	2.4790		9,700.8201	9,700.8201	1.9747		9,750.1874
Total	**5.5856**	**53.4955**	**49.1037**	**0.1012**		**2.5741**	**2.5741**		**2.4790**	**2.4790**		**9,700.8201**	**9,700.8201**	**1.9747**		**9,750.1874**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1413	4.0413	1.1681	9.5900e-003	0.2433	0.0193	0.2626	0.0700	0.0185	0.0885		1,023.9065	1,023.9065	0.0685		1,025.6181
Worker	0.5008	0.3552	3.9299	0.0109	1.0954	9.1600e-003	1.1046	0.2905	8.4400e-003	0.2989		1,085.2720	1,085.2720	0.0342		1,086.1272
Total	**0.6421**	**4.3965**	**5.0980**	**0.0205**	**1.3387**	**0.0285**	**1.3672**	**0.3606**	**0.0269**	**0.3875**		**2,109.1784**	**2,109.1784**	**0.1027**		**2,111.7453**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2782	47.3793	62.7522	0.1012		2.5979	2.5979		2.5979	2.5979	0.0000	9,700.8201	9,700.8201	1.9747		9,750.1874
Total	**2.2782**	**47.3793**	**62.7522**	**0.1012**		**2.5979**	**2.5979**		**2.5979**	**2.5979**	**0.0000**	**9,700.8201**	**9,700.8201**	**1.9747**		**9,750.1874**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1413	4.0413	1.1681	9.5900e-003	0.2433	0.0193	0.2626	0.0700	0.0185	0.0885		1,023.9065	1,023.9065	0.0685		1,025.6181
Worker	0.5008	0.3552	3.9299	0.0109	1.0954	9.1600e-003	1.1046	0.2905	8.4400e-003	0.2989		1,085.2720	1,085.2720	0.0342		1,086.1272
Total	**0.6421**	**4.3965**	**5.0980**	**0.0205**	**1.3387**	**0.0285**	**1.3672**	**0.3606**	**0.0269**	**0.3875**		**2,109.1784**	**2,109.1784**	**0.1027**		**2,111.7453**

3.5 Paving - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Off-Road	3.9524	49.2854	24.6506	0.0590		1.8715	1.8715		1.7218	1.7218		5,843.5873	5,843.5873	1.8489		5,889.8085
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.9524**	**49.2854**	**24.6506**	**0.0590**		**1.8715**	**1.8715**		**1.7218**	**1.7218**		**5,843.5873**	**5,843.5873**	**1.8489**		**5,889.8085**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0610	0.6637	1.7200e-003	0.1677	1.4500e-003	0.1691	0.0445	1.3300e-003	0.0458		171.3196	171.3196	5.8900e-003		171.4670

Total	**0.0831**	**0.0610**	**0.6637**	**1.7200e-003**	**0.1677**	**1.4500e-003**	**0.1691**	**0.0445**	**1.3300e-003**	**0.0458**		**171.3196**	**171.3196**	**5.8900e-003**		**171.4670**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4532	28.0950	31.4858	0.0590		1.0657	1.0657		1.0657	1.0657	0.0000	5,843.5873	5,843.5873	1.8489		5,889.8085
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4532**	**28.0950**	**31.4858**	**0.0590**		**1.0657**	**1.0657**		**1.0657**	**1.0657**	**0.0000**	**5,843.5873**	**5,843.5873**	**1.8489**		**5,889.8085**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0831	0.0610	0.6637	1.7200e-003	0.1677	1.4500e-003	0.1691	0.0445	1.3300e-003	0.0458		171.3196	171.3196	5.8900e-003		171.4670
Total	**0.0831**	**0.0610**	**0.6637**	**1.7200e-003**	**0.1677**	**1.4500e-003**	**0.1691**	**0.0445**	**1.3300e-003**	**0.0458**		**171.3196**	**171.3196**	**5.8900e-003**		**171.4670**

3.5 Paving - 2020

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7202	45.3661	23.2489	0.0590		1.7175	1.7175		1.5801	1.5801		5,716.2717	5,716.2717	1.8488		5,762.4907
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.7202**	**45.3661**	**23.2489**	**0.0590**		**1.7175**	**1.7175**		**1.5801**	**1.5801**		**5,716.2717**	**5,716.2717**	**1.8488**		**5,762.4907**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Off-Road	1.4532	28.0950	31.4858	0.0590		1.0657	1.0657		1.0657	1.0657	0.0000	5,716.2717	5,716.2717	1.8488		5,762.4907
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4532**	**28.0950**	**31.4858**	**0.0590**		**1.0657**	**1.0657**		**1.0657**	**1.0657**	**0.0000**	**5,716.2717**	**5,716.2717**	**1.8488**		**5,762.4907**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

3.6 Architectural Coating - 2019

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	49.2969					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5940	4.6920	5.3218	8.4600e-003		0.2826	0.2826		0.2806	0.2806		812.2465	812.2465	0.1264		815.4074
Total	**49.8909**	**4.6920**	**5.3218**	**8.4600e-003**		**0.2826**	**0.2826**		**0.2806**	**0.2806**		**812.2465**	**812.2465**	**0.1264**		**815.4074**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1108	0.0813	0.8850	2.2900e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		228.4262	228.4262	7.8600e-003		228.6226
Total	**0.1108**	**0.0813**	**0.8850**	**2.2900e-003**	**0.2236**	**1.9300e-003**	**0.2255**	**0.0593**	**1.7800e-003**	**0.0611**		**228.4262**	**228.4262**	**7.8600e-003**		**228.6226**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	49.2969					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1809	4.1296	5.5765	8.4600e-003		0.2894	0.2894		0.2894	0.2894	0.0000	812.2465	812.2465	0.1264		815.4074
Total	**49.4778**	**4.1296**	**5.5765**	**8.4600e-003**		**0.2894**	**0.2894**		**0.2894**	**0.2894**	**0.0000**	**812.2465**	**812.2465**	**0.1264**		**815.4074**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1108	0.0813	0.8850	2.2900e-003	0.2236	1.9300e-003	0.2255	0.0593	1.7800e-003	0.0611		228.4262	228.4262	7.8600e-003		228.6226
Total	**0.1108**	**0.0813**	**0.8850**	**2.2900e-003**	**0.2236**	**1.9300e-003**	**0.2255**	**0.0593**	**1.7800e-003**	**0.0611**		**228.4262**	**228.4262**	**7.8600e-003**		**228.6226**

3.6 Architectural Coating - 2020

Baseline Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Archit. Coating	49.2969					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5437	4.3331	5.3042	8.4600e-003		0.2434	0.2434		0.2416	0.2416		806.8259	806.8259	0.1225		809.8877
Total	**49.8406**	**4.3331**	**5.3042**	**8.4600e-003**		**0.2434**	**0.2434**		**0.2416**	**0.2416**		**806.8259**	**806.8259**	**0.1225**		**809.8877**

Baseline Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day											lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586

Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

Regulatory Compliance Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	49.2969					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1809	4.1296	5.5765	8.4600e-003		0.2894	0.2894		0.2894	0.2894	0.0000	806.8259	806.8259	0.1225		809.8877
Total	**49.4778**	**4.1296**	**5.5765**	**8.4600e-003**		**0.2894**	**0.2894**		**0.2894**	**0.2894**	**0.0000**	**806.8259**	**806.8259**	**0.1225**		**809.8877**

Regulatory Compliance Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1022	0.0725	0.8020	2.2200e-003	0.2236	1.8700e-003	0.2254	0.0593	1.7200e-003	0.0610		221.4841	221.4841	6.9800e-003		221.6586
Total	**0.1022**	**0.0725**	**0.8020**	**2.2200e-003**	**0.2236**	**1.8700e-003**	**0.2254**	**0.0593**	**1.7200e-003**	**0.0610**		**221.4841**	**221.4841**	**6.9800e-003**		**221.6586**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Regulatory Compliance	2.4841	12.8885	36.4600	0.1299	10.9286	0.1122	11.0407	2.9248	0.1047	3.0295		13,214.2095	13,214.2095	0.6996		13,231.7004
Baseline	2.4841	12.8885	36.4600	0.1299	10.9286	0.1122	11.0407	2.9248	0.1047	3.0295		13,214.2095	13,214.2095	0.6996		13,231.7004

4.2 Trip Summary Information

	Average Daily Trip Rate			Baseline	Regulatory Compliance
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	1,160.59	308.87	159.11	3,967,061	3,967,061
Total	1,160.59	308.87	159.11	3,967,061	3,967,061

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Regulatory Compliance	0.1251	1.1376	0.9556	6.8300e-003		0.0865	0.0865		0.0865	0.0865		1,365.0813	1,365.0813	0.0262	0.0250	1,373.1933
NaturalGas Baseline	0.1251	1.1376	0.9556	6.8300e-003		0.0865	0.0865		0.0865	0.0865		1,365.0813	1,365.0813	0.0262	0.0250	1,373.1933

5.2 Energy by Land Use - NaturalGas

Baseline

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	11603.2	0.1251	1.1376	0.9556	6.8300e-003		0.0865	0.0865		0.0865	0.0865		1,365.0813	1,365.0813	0.0262	0.0250	1,373.1933
Total		**0.1251**	**1.1376**	**0.9556**	**6.8300e-003**		**0.0865**	**0.0865**		**0.0865**	**0.0865**		**1,365.0813**	**1,365.0813**	**0.0262**	**0.0250**	**1,373.1933**

Regulatory Compliance

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	11.6032	0.1251	1.1376	0.9556	6.8300e-003		0.0865	0.0865		0.0865	0.0865		1,365.0813	1,365.0813	0.0262	0.0250	1,373.1933
Total		**0.1251**	**1.1376**	**0.9556**	**6.8300e-003**		**0.0865**	**0.0865**		**0.0865**	**0.0865**		**1,365.0813**	**1,365.0813**	**0.0262**	**0.0250**	**1,373.1933**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Regulatory Compliance	5.2295	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.4000e-004		0.0546
Baseline	5.2295	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.4000e-004		0.0546

6.2 Area by SubCategory

Baseline

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.6329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2400e-003	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.4000e-004		0.0546
Total	**5.2294**	**2.2000e-004**	**0.0240**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0512**	**0.0512**	**1.4000e-004**		**0.0546**

Regulatory Compliance

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.6329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.2400e-003	2.2000e-004	0.0240	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		0.0512	0.0512	1.4000e-004		0.0546
Total	**5.2294**	**2.2000e-004**	**0.0240**	**0.0000**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**		**0.0512**	**0.0512**	**1.4000e-004**		**0.0546**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

APPENDIX C

Historical Assessment

FINAL

5010 AZUSA CANYON ROAD IRWINDALE, CALIFORNIA

Historic Resources Assessment

Prepared for
Jason Hines
Overton Moore Properties
19300 South Hamilton Avenue, Suite 200
Gardena, California, 90248

May 2018

FINAL

5010 AZUSA CANYON ROAD IRWINDALE, CALIFORNIA

Historic Resources Assessment

Prepared for
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5010 AZUSA CANYON ROAD, IRWINDALE, CALIFORNIA

Historic Resources Assessment

Introduction

Executive Summary

Environmental Science Associates (ESA) was retained by Jason Hines on behalf of Overton Moore Properties (Client) to prepare this Historical Resources Assessment Report and CEQA Impacts Analysis (Report). The purpose of this Report is to identify and evaluate potential historical resources located at 5010 Azusa Canyon Road (Project Site), Irwindale (City), California, on assessor parcel number (APN) 8417-025-800, 8417-025-801, 8417-026-800, and 8417-026-801 (Project Site). This Report, completed by ESA, was prepared to comply with California Environmental Quality Act (CEQA), to assess the existing buildings and landscapes on the Project Site and neighboring parcels for eligibility as historical resources for listing in the National Register of Historic Places (National Register or NR), California Register of Historical Resources (California Register or CR), as well as for local designation as a City of Irwindale Landmark. The Report includes a discussion of the survey methods used, a brief historic context of the property and surrounding area, and the identification and evaluation of the Project Site.

The Project Site is situated on the east side of Azusa Canyon Road which forms the border between the City of Irwindale and the City of Baldwin Park. The Project Site is a 10.3-acre site which contains four buildings and one structure: Office Building, Fleet Maintenance Building, Warehouse, storage area ("Barn"), and Truck Wash. The Office Building, Warehouse, Barn, and Truck Wash were designed by architectural firm Beckhart & Mill in 1967. The Warehouse, Barn, and Truck Wash were designed in Utilitarian style, and the Office Building was designed in the Mid-Century Modern style. The Fleet Maintenance Building was built in 1957 and designed by architects Daniel, Mann, Johnson & Mendenhall (DMJM) in a Utilitarian style.

ESA's architectural historian Ashley Brown, M.A. conducted a site visit of the Project Site on April 12, 2018. This site visit included an intensive pedestrian survey to document the existing conditions of the Project Site including the buildings and structure located on the site, and the immediate vicinity. During the site visit the Project Site was documented with digital photography.

The Project Site was evaluated under the following historical and architectural themes: Commercial and Industrial Development (1920s-1970), Mid-Century Modern Architecture (1945-1970), Utilitarian style (1860-present), and architects Beckhart & Mill and DMJM. ESA

also conducted research on the Project Site's construction and occupancy history. ESA evaluated the buildings on the Project Site against the criteria for the National Register, California Register, and City of Irwindale local landmark status.

ESA found the Project Site ineligible under the applicable federal and state criteria for its significant historical associations A-D and 1-4, respectively. ESA also found the buildings and structure on the Project Site ineligible under local criteria A-H. ESA recommends that the Project Site be assigned a California Historic Resource (CHR) Status Code of 6Z; noting it as ineligible for listing in the National Register of Historic Places, the California Register of Historical Resources, and local register through survey evaluation. As such, the four buildings and one structure on the Project site (Office Building, Fleet Maintenance Building, Warehouse, Barn, and Truck Wash) are cleared for demolition as part of the proposed Project's redevelopment.

Project Location

The project site (Project Site) is located at 5010 Azusa Canyon Road in Irwindale, California on APN: 8417-025-800, shown on **Figure 1**, *Regional and Project Vicinity Map*. As mentioned above and shown in **Figure 2**, *Aerial Photograph of Project Site*, the Project Site is improved with the General Telephone "Office Building" built in the Mid-Century Modern architectural style; a Fleet Maintenance building on the northern property line, with an adjacent Truck Wash; a Warehouse in the middle of the Project Site; and a storage facility known as the "Barn" on the eastern edge of the property line. The Project Site is bounded to the west by Azusa Canyon road, to the north, south, and east by further commercial buildings. The Project Site is located in Irwindale, which consists of grid streets, houses, commercial buildings, and gravel pits. The nearest major arteries are Azusa Canyon Road to the west and Arrow Highway to the north.

Project Description

The Client proposes to demolish current improvements (Office Building, Fleet Maintenance Building, Warehouse, Barn, and Truck Wash) on the Project Site. The Project plans were developed by HPA Architecture, and dated March 14, 2018. The Project plans would include the construction of "Building 1," which would be 186,720 square-feet warehouse/office with 21 dock doors at the rear of the property. Building 1 would be a contemporary design that would be located along Azusa Canyon Road. This building would have the potential to be one or two stories, and be used as a warehouse, office, or a combination of the two. The second building, "Building 2," would be sited at the current southeast rear parking lot. It would be similar in design to Building 1, however it would only be 49,300 square-feet with six dock doors. Building 2, will also have the potential to be one or two floors. Project Plans are included in **Appendix A.**

Figure 1 Regional and Project Site Vicinity Map

Figure 2 Aerial Photograph of Project Site and Vicinity

Research and Field Methodology

This Report was prepared by ESA's architectural historians, including Margarita Jerabek, Ph.D., Director of Historic Resources; Joel Levanetz, Historic Resources Manager; Ashley Brown, M.A., Senior Architectural Historian; Max Loder, Associate Architectural Historian; and Hanna Winzenried, M.S.C., Associate Architectural Historian, all of whom meet and exceed the *Secretary of the Interior's Professional Qualification Standards* in history and architectural history. Professional qualifications are provided in **Appendix B**.

The historical resources evaluation involved a review of the National Register and its annual updates, the California Register, the Statewide Historical Resources Inventory (HRI) database maintained by the State Office of Historic Preservation (OHP), the California Historical Resources Information System (CHRIS), and the Cities of Irwindale and Baldwin Park's inventory of historic properties to identify any previously recorded properties within or near the Project Site. An intensive pedestrian survey was also undertaken to document the existing conditions of the property and vicinity. In addition, the following tasks were performed for the study:

- Conducted field inspections of the Project Site and utilized the survey methodology of the State OHP.
- Photographed the Project Site and associated landscape features, and examined other properties in the vicinity that exhibited potential architectural and/or historical associations.
- Conducted site-specific research on the property utilizing building permits, Sanborn Fire Insurance Maps (not available for this area), City directories, historical photographs, California Index, Avery Index, Online Archive of California, Huntington Library, Calisphere, University of Southern California (USC) Digital Collections, Newspapers.com, and other published sources.
- Conducted research at the City's Building and Safety and Community Development departments as well as the Los Angeles County Office of the Assessor (Assessor).
- Reviewed and analyzed ordinances, statutes, regulations, bulletins, and technical materials relating to federal, state, and local historic preservation, designation assessment processes, and related programs.
- Evaluated potential historical resources based upon criteria used by the National Register, California Register, and City of Irwindale Local Official Register.

Regulatory Framework

Historical resources fall within the jurisdiction of the federal, state, and local designation programs. Federal laws provide the framework for the identification, and in certain instances, protection of historical resources. Additionally, state and local jurisdictions play active roles in the identification, documentation, and protection of such resources within their communities. The National Historic Preservation Act (NHPA) of 1966, as amended and the California Public Resources Code (PRC), Section 5024.1, are the primary federal and state laws and regulations governing the evaluation and significance of historical resources of national, state, regional, and local importance. Descriptions of these relevant laws and regulations are presented below.

Federal Eligibility Criteria and Integrity Aspects

National Register of Historic Places

The National Register was established by the NHPA as "an authoritative guide to be used by federal, state, and local governments, private groups and citizens to identify the Nation's cultural resources and to indicate what properties should be considered for protection from destruction or impairment."[1] The National Register recognizes properties that are significant at the national, state, and/or local levels.

To be eligible for listing in the National Register, a resource must be significant in American history, architecture, archaeology, engineering, or culture. Four criteria for evaluation have been established to determine the significance of a resource:

A. Associated with events that have made a significant contribution to the broad patterns of our history;

B. Associated with the lives of persons significant in our past;

C. Embodies the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction;

D. Yields, or may be likely to yield, information important in prehistory or history.[2]

Districts, sites, buildings, structures, and objects that are 50 years in age must meet one or more of the above criteria *and* retain integrity (that is, convey their significance) to be eligible for listing.

Under the National Register, a property can be significant not only for the way it was originally constructed, but also for the way it was adapted at a later period, or for the way it illustrates changing tastes, attitudes, and uses over a period of time.[3]

Within the concept of integrity, the National Register recognizes seven aspects or qualities that, in various combinations, define integrity: Location, Design, Setting, Materials, Workmanship, Feeling, and Association:

Location is the place where the historic property was constructed or the place where the historic event occurred. The relationship between the property and its location is often important to understanding why the property was created or why something happened. The actual location of a historic property, complemented by its setting, is particularly important in recapturing the sense of historic events and persons. Except in rare cases, the relationship between a property and its historic associations is destroyed if the property is moved.

1 36 CFR Section 60.2.

2 "Guidelines for Completing National Register Forms," in National Register Bulletin 16, U.S. Department of Interior, National Park Service, 1977, Revised 1997. This bulletin contains technical information on comprehensive planning, survey of cultural resources and registration in the NRHP.

3 National Register Bulletin 15, p. 19.

Design is the combination of elements that create the form, plan, space, structure, and style of a property. It results from conscious decisions made during the original conception and planning of a property (or its significant alteration) and applies to activities as diverse as community planning, engineering, architecture, and landscape architecture. Design includes such elements as organization of space, proportion, scale, technology, ornamentation, and materials. A property's design reflects historic functions and technologies as well as aesthetics. It includes such considerations as the structural system; massing; arrangement of spaces; pattern of fenestration; textures and colors of surface materials; type, amount and style of ornamental detailing; and arrangement and type of plantings in a designed landscape.

Setting is the physical environment of a historic property. Whereas location refers to the specific place where a property was built or an event occurred, setting refers to the *character* of the place in which the property played its historic role. It involves *how*, not just where, the property is situated and its relationship to surrounding features and open space.

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory. It is the evidence of artisans' labor and skill in constructing or altering a building, structure, object, or site. Workmanship can apply to the property as a whole or to its individual components.

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property.

The choice and combination of materials reveal the preferences of those who created the property and indicate the availability of particular types of materials and technologies. A property must retain key exterior materials dating from the period of its historic significance.

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time. It results from the presence of physical features that, taken together, convey the property's historic character.

Association is the direct link between an important historic event or person and a historic property. A property retains association if it *is* the place where the event or activity occurred and is sufficiently intact to convey that relationship to an observer.[4]

To retain historic integrity, a property will always possess most of the aspects and depending upon its significance, retention of specific aspects of integrity may be paramount for a property to convey its significance.[5] Determining which of these aspects are most important to a particular

[4] National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation, 44-45, http://www.nps.gov/nr/publications/bulletins/pdfs/nrb15.pdf, accessed July 7, 2013.

[5] The National Register defines a property as an "area of land containing a single historic resource or a group of resources, and constituting a single entry in the National Register of Historic Places." A "Historic Property" is defined as "any prehistoric or historic district, site, building, structure, or object at the time it attained historic significance." Glossary of National Register Terms, http://www.nps.gov/nr/publications/bulletins/nrb16a/nrb16a_appendix_IV.htm, accessed June 1, 2013.

property requires knowing why, where and when a property is significant.[6] For properties that are considered significant under National Register Criteria A and B, *National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation (National Register Bulletin 15)* explains, "a property that is significant for its historic association is eligible if it retains the essential physical features that made up its character or appearance during the period of its association with the important event, historical pattern, or person(s)."[7] In assessing the integrity of properties that are considered significant under National Register Criterion C, *National Register Bulletin 15* states, "a property important for illustrating a particular architectural style or construction technique must retain most of the physical features that constitute that style or technique."[8]

State Register and Eligibility Criteria

California Register of Historical Resources

The OHP, as an office of the California Department of Parks and Recreation (DPR), implements the policies of the NHPA on a statewide level.

The OHP also carries out the duties as set forth in the PRC and maintains the HRI and the California Register. The State Historic Preservation Officer (SHPO) is an appointed official who implements historic preservation programs within the state's jurisdictions.

Also implemented at the state level, CEQA requires projects to identify any substantial adverse impacts which may affect the significance of identified historical resources.

The California Register was created by Assembly Bill 2881 which was signed into law on September 27, 1992. The California Register is "an authoritative listing and guide to be used by state and local agencies, private groups, and citizens in identifying the existing historical resources of the state and to indicate which resources deserve to be protected, to the extent prudent and feasible, from substantial adverse change."[9] The criteria for eligibility for the California Register are based upon National Register criteria.[10]

6 National Register Bulletin 15, 44.

7 "A property retains association if it is the place where the event or activity occurred and is sufficiently intact to convey that relationship to an observer. Like feeling, association requires the presence of physical features that convey a property's historic character. Because feeling and association depend on individual perceptions, their retention alone is never sufficient to support eligibility of a property for the National Register." Ibid, p. 46.

8 "A property that has lost some historic materials or details can be eligible if it retains the majority of the features that illustrate its style in terms of the massing, spatial relationships, proportion, pattern of windows and doors, texture of materials, and ornamentation. The property is not eligible, however, if it retains some basic features conveying massing but has lost the majority of the features that once characterized its style." Ibid.

9 PRC Section 5024.1(a).

10 PRC Section 5024.1(b).

The California Register consists of resources that are listed automatically and those that must be nominated through an application and public hearing process. The California Register automatically includes the following:

- California properties listed on the National Register and those formally Determined Eligible for the National Register; 11
- California Registered Historical Landmarks from No. 770 onward;
- Those California Points of Historical Interest (PHI) that have been evaluated by the OHP and have been recommended to the State Historical Commission for inclusion on the California Register.[12]

Other resources which may be nominated to the California Register include:

- Individual historical resources;
- Historical resources contributing to historic districts;
- Historical resources identified as significant in historical resources surveys with significance ratings of Category 1 through 5;
- Historical resources designated or listed as local landmarks, or designated under any local ordinance, such as an HPOZ.[13]

To be eligible for the California Register, a historical resource must be significant at the local, state, or national level, under one or more of the following four criteria:

1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
2. Is associated with the lives of persons important in our past;
3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
4. Has yielded, or may be likely to yield, information important in prehistory or history.

Additionally, a historical resource eligible for listing in the California Register must meet one or more of the criteria of significance described above and retain enough of its historic character or appearance to be recognizable as a historical resource and to convey the reasons for its significance. Historical resources that have been rehabilitated or restored may be evaluated for listing. Integrity is evaluated with regard to the retention of seven aspects of integrity similar to the National Register (location, design, setting, materials, workmanship, feeling, and association). Also like the National Register, it must also be judged with reference to the particular criteria under which a resource is proposed for eligibility. Alterations over time to a resource or historic changes in its use may themselves have historical, cultural, or architectural significance. It is possible that historical resources may not retain sufficient integrity to meet the criteria for listing in the National Register, but they may still be eligible for listing in the California Register. A

11 PRC Section 5024.1(d).

12 Ibid.

13 PRC Section 5024.1(e)

resource that has lost its historic character or appearance may still have sufficient integrity for the California Register if it maintains the potential to yield significant scientific or historical information or specific data.[14]

California Historical Resources Status Codes

The California State OHP developed National Register Status Codes in 1975 as a standardized system for classifying historical resources in the state's Historic Resources Inventory. In 2003 these codes were revised to reflect the application of California Register and local criteria and the name was changed to California Historical Resource (CHR) Status Codes. CHR Status codes consist of three digits and are assigned to properties or historic districts through a survey process and as a result of varying regulatory processes. The first digit ranges from 1-7. Code categories 1-5 reflect properties determined eligible for designation according to the criteria established for the National Register, California Register and local government criteria for significance. Code categories 6-7 generally identify properties that do not meet established criteria for significance, have not been evaluated, or need to be reevaluated. The code categories are as follows:

1. Properties listed in the National Register or the California Register;
2. Properties determined eligible for listing in the National Register or the California Register;
3. Appears eligible for National Register or the California Register through survey evaluation;
4. Appears eligible for the National Register or the California Register through other evaluation;
5. Properties recognized as historically significant by local government;
6. Not eligible for listing or designation as specified; and
7. Not evaluated for the National Register or California Register or needs re-evaluation.

The second digit of the CHR Status Code is a letter code indicating whether the resource is separately eligible (S), eligible as part of a district (D), or both (B). The third digit is a number that is used to further specify significance and refine the relationship of the property to the National Register and/or California Register. Under this evaluation system, categories 1 through 4 pertain to various levels of National Register and California Register eligibility. Locally eligible resources are given a rating code level 5. Properties found ineligible for listing in the National Register, California Register, or for designation under a local ordinance are given an evaluation Status Code of 6. Properties given an evaluation Status Code of 6Z are "found ineligible for the National Register, California Register, or Local designation through survey evaluation."[15]

[14] Codified in California Code of Regulations, Title 14, Chapter 11.5, Section 4852(c) which can be accessed on the internet at http://ohp.parks.ca.gov

[15] Ibid.

Local Official Register of Historic Resources

City of Irwindale Code

The City of Irwindale's Code (Resolution No. 2009-60-2418) establishes criteria for designating local historic landmarks.[16]

PURPOSE OF RESOLUTION:

WHEREAS, the recognition, protection and use of historic resources are required in the interest of the public peace, health, safety, prosperity, social and cultural enrichment, and general welfare; and

WHEREAS, the City intends to safeguard the heritage of the City by protecting designated buildings and structures which reflect the city's cultural history; and

WHEREAS, the City intends to encourage public understanding and involvement in the unique heritage of the City; and

WHEREAS, the City intends to strengthen civic pride in the notable accomplishments of the past; and

WHEREAS, the City desires to enhance the visual and aesthetic character of the City; and

WHEREAS, the City intends to promote the use of historic buildings and structures; and

WHEREAS, the City desires to protect and safeguard the property rights of the owners whose property is declared to be a historic building or structure; and

WHEREAS, the City, through this resolution, wishes to establish a Local Official Register of Historic Resources; and

WHEREAS, pursuant to the authority and criteria contained in the California Environmental Quality Act ("CEQA") and the CEQA guidelines, it has been determined that the proposed establishment of a Local Official Register of Historic Resources is categorically exempt under Section 15061(b)(3) of the CEQA Guidelines in that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, that activity is not subject to CEQA.

METHOD OF DESIGNATION:

Local historical landmarks may be designated as follows:

A. The building or structure proposed for designation is particularly representative of a historic period, type, style, region, or way of life.

B. The building or structure was connected with someone renowned, important, or a local personality.

C. The building or structure is connected with a business or use which was once common but is now rare

16 City of Irwindale, "Ordinance Resolution 2009-60-2418," Irwindale: City of Irwindale, 2009.

D. The building or structure represents the work of a master builder, engineer, designer, and artist or architect whose individual genius influenced his/her age.

E. The building or structure is the site of an important historic event or is associated with events that have made a meaningful contribution to the nation, state or city.

F. The building or structure exemplifies a particular architectural style.

G. The building or structure exemplifies the best remaining architectural type of a neighborhood.

H. The construction materials or engineering methods used in the building or structure embody elements of outstanding attention to architectural or engineering design, detail, material or craftsmanship.

Environmental Setting

Historic Context

The historic context developed below presents the background necessary to evaluate the historical and architectural significance of the Project Site, including the history of its construction and alterations, as well as the surrounding neighborhood and City's development. ESA evaluated the Project Site under the following historical and architectural themes: Commercial and Industrial Development (1920s-1970), Mid-Century Modern Architecture (1945-1970), architectural firm Beckhart & Mill.

City of Irwindale

Early Settlement

Before European settlement of what is today the City of Irwindale, the native Tongva people had been living in the area for thousands of years. By the mid-19th century, the land had been divided into the Rancho Azusa de Dalton.[17] Being located where the San Gabriel River leaves the steep mountains and levels out on its path to the ocean, the rancho was noted for little more than its unusually rocky, gravel-laden soil. This precluded much of it from being set aside for large-scale farming or livestock operations. In the 1850s, Gregorio Fraijo, a ranch overseer, settled his family on a 100-acre piece of land near present day City Hall. He was able to grow corn thanks to the waters of the nearby river water. Many immigrants soon began to move the area, particularly from the Mexican state of Sonora. A sizeable portion of Irwindale's over 1,400 residents can trace their ancestry to these early families.[18]

Commercial and Industrial Development (1920s-1970)

By the 1920s, the name "Irwindale" had begun to be widely applied to the area. Irwindale soon began to be known as the supplier of much of the material used to build Los Angeles' roads, buildings, freeways, and buildings. The same soil which made Irwindale unsuited for large scale agriculture made it ideal for mining the aggregate used to build much of the region's transportation infrastructure, and, when used as a component of concrete, many buildings and

17 Robert Petersen, "Irwindale: Mining the Building Blocks of Los Angeles," *KCET*, August 2, 2016.

18 Robert Petersen, "Irwindale: Mining the Building Blocks of Los Angeles," *KCET*, August 2, 2016.

structures.[19] "The first commercial-scale aggregate production sites began operating out of Irwindale in 1900," and railroads were built to ship the finished product throughout the region.[20] As the population of Los Angeles grew ten times by 1900 to 1930, and the demand for automobiles grew accordingly, Irwindale's fortunes grew in kind. Aggregate from Irwindale's unique soil was also used to construct many notable buildings and structures in Los Angeles: Los Angeles City Hall; the Biltmore Hotel; Los Angeles Memorial Coliseum; Union Station; Dodger Stadium; the Bonaventure Hotel; and the Los Angeles Convention Center; and the Arroyo Seco Highway, among others.[21]

"Mining became the town's principal industry," as "17 mining sites came to occupy 70 percent of the land in Irwindale."[22] This brought the area to the attention of adjacent cities which sought to annex parts of then-unincorporated Irwindale to increase their own revenue. In order to avoid higher municipal taxes, the mining companies persuaded Irwindale to incorporate as its own municipality. It successfully did this in 1957, and the mining companies dominated the young city until the 1970s. City leaders tried to diversify the economy with varying levels of success. Today, Irwindale is still known for mining, but also for the Irwindale Speedway, the Santa Fe Dam Recreation Area, breweries for seven different major brands of beer, and the Sriracha hot sauce factory.

History and Land Use of the Project Site

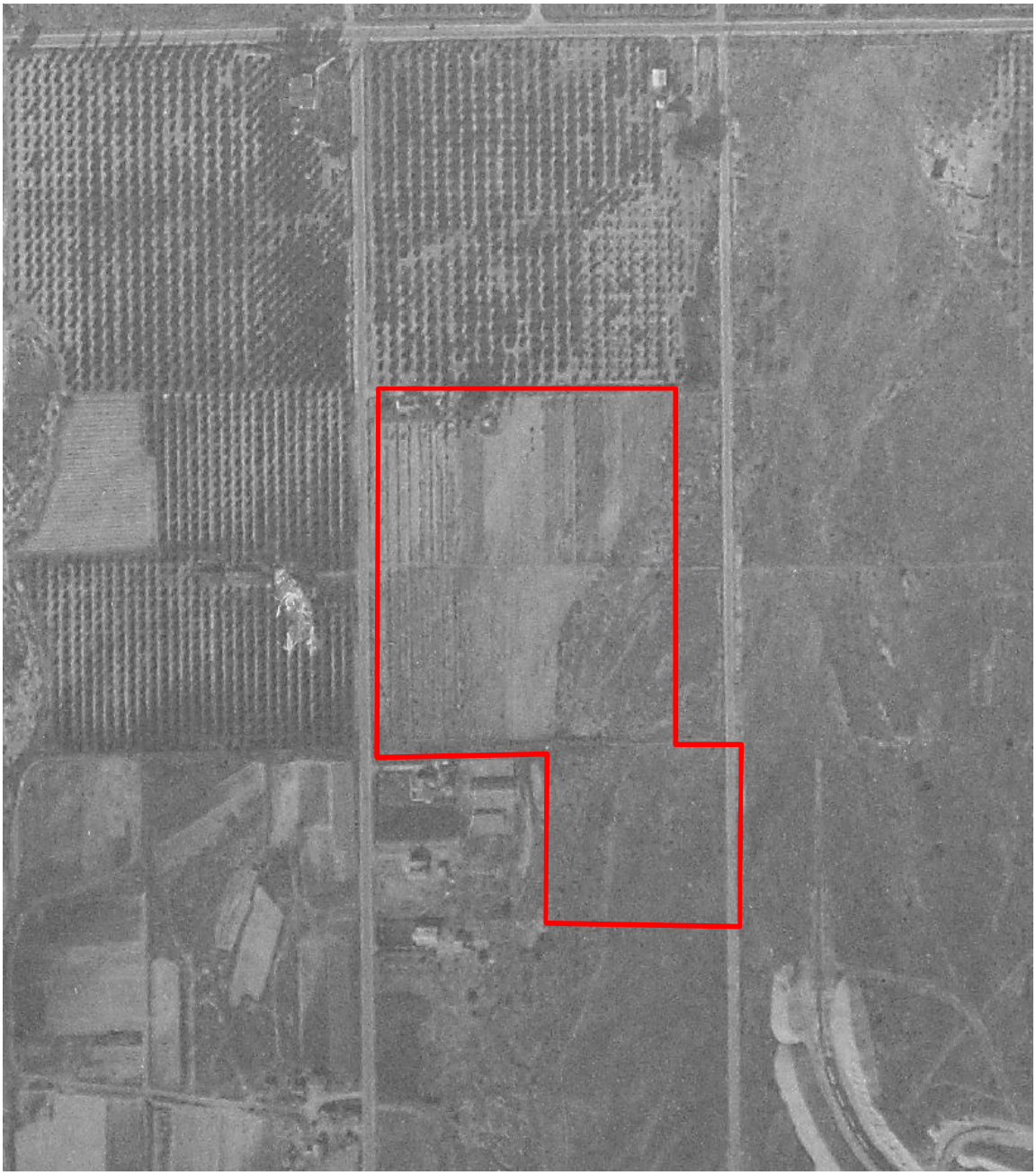
The Project Site is located at "E 300 FT OF W 340 FT OF SW 1/4 OF NW 1/4 OF NW 1/4 OF SEC 9 T 1S R 10W on the USGS Topographic Map, the land was never formally subdivided within a tract. To better understand the history of the Project Site and surrounding area, USGS topographic maps and aerial imagery were reviewed.

Aerial and Map Observations

A review of aerials from 1928, 1956, 1960, 1968, and 1976 indicate a variety of land uses for the Project Site. The 1928 aerial reveals agricultural usage (**Figure 3**), as does the 1956 aerial. The 1956 aerial also shows a large gravel pit immediately to the east of the Project Site, indicating the large increase in mining of aggregate that occurred in the first half of the twentieth century (**Figure 4**). The 1960 aerial shows the Project Site improved with commercial development including a large building on the southwest corner with vast parking lot, unlike today's present conditions (**Figure 5**). Also of note is the appearance of suburban development immediately to the west, in Baldwin Park. While some of this development was apparent in the 1956 aerial, the 1960 aerial shows it in full swing. The next available aerial from 1968 shows the Project Site developed much as it is now, with expanded parking lots, the Beckhart & Mill designed Office Building fronting Azusa Canyon Road, and the smaller Warehouse in the middle of the Project Site (**Figure 6**). The next available aerial is from 1976 (**Figure 7**) and shows that some small

19 Robert Petersen, "Irwindale: Mining the Building Blocks of Los Angeles," *KCET*, August 2, 2016.
20 Robert Petersen, "Irwindale: Mining the Building Blocks of Los Angeles," *KCET*, August 2, 2016.
21 Robert Petersen, "Irwindale: Mining the Building Blocks of Los Angeles," *KCET*, August 2, 2016.
22 Robert Petersen, "Irwindale: Mining the Building Blocks of Los Angeles," *KCET*, August 2, 2016.

temporary structures east of the Fleet Maintenance Building have been removed, and the Fleet Maintenance Building has been enlarged.



5010 Azusa Canyon Road HRA/D171221.00

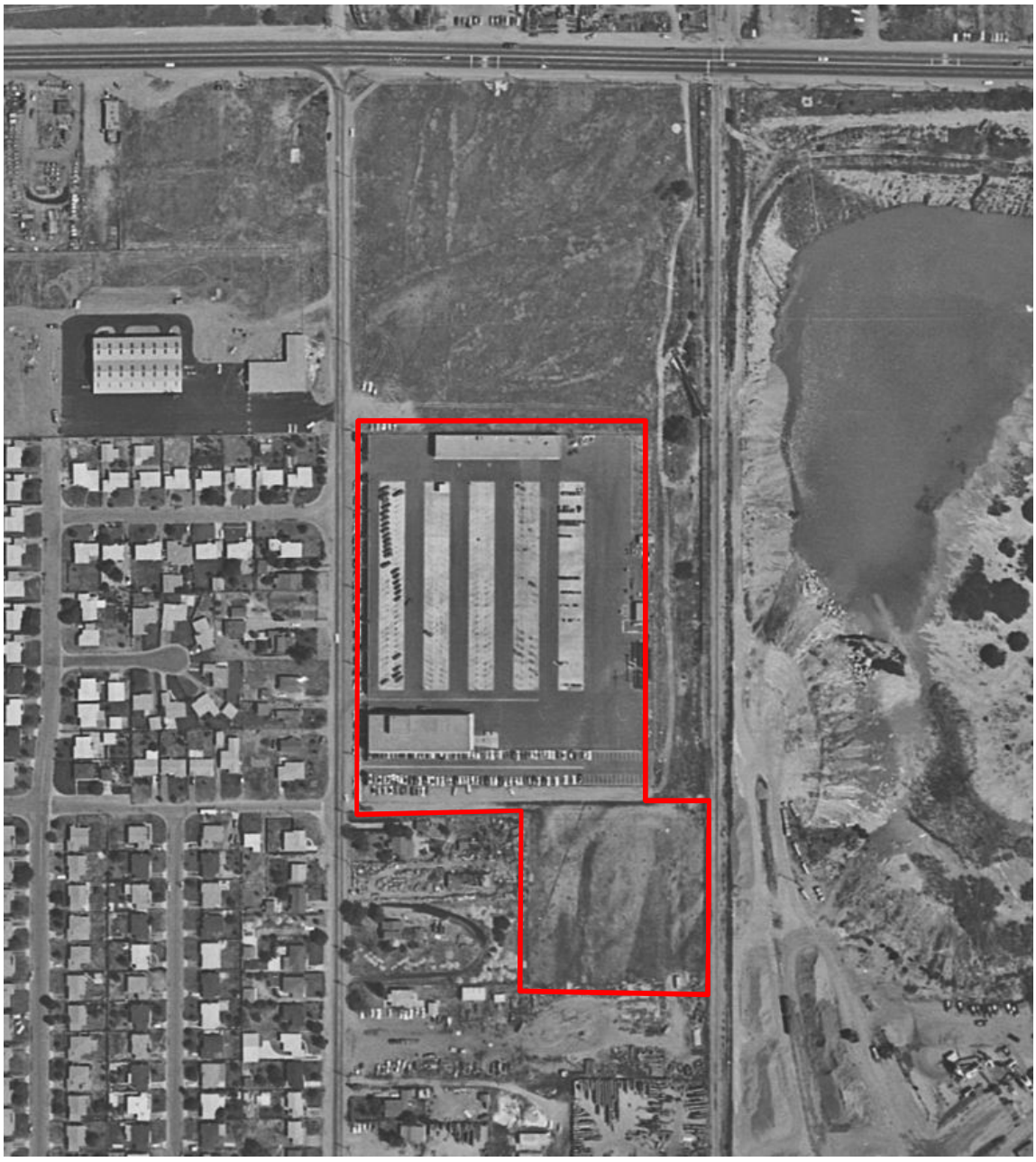
SOURCE: *University of California, Santa Barbara*

Figure 3
1928 Aerial

5010 Azusa Canyon Road HRA/D171221.00

SOURCE: *University of California, Santa Barbara*

Figure 4
1956 Aerial



5010 Azusa Canyon Road HRA/D171221.00

SOURCE: *University of California, Santa Barbara*

Figure 5
1960 Aerial

5010 Azusa Canyon Road HRA/D171221.00

SOURCE: *University of California, Santa Barbara*

Figure 6
1968 Aerial

5010 Azusa Canyon Road HRA/D171221.00

SOURCE: *University of California, Santa Barbara*

Figure 7
1976 Aerial

General Telephone Company's Development of 5010 Azusa Canyon Road

As mentioned above, prior to the General Telephone Company acquiring the four parcels, it remained undeveloped from its prior agricultural use. General Telephone acquired the property in 1957 and built an office and warehouse on the Project Site, in addition to the fleet maintenance building on the property. These three buildings were designed by Daniel, Mann, Johnson, & Mendenhall (DMJM). The original warehouse and office were located on the southern lot line of 5010 Azusa Canyon Road, as was a vehicle service building on the northern lot line of the property. The warehouse/office building was the telephone company's main equipment storage center in the San Gabriel Valley and stored thousands of telephones.[23] On April 30, 1965, General Telephone Co. held an auction of their instillation trucks, sedans, pickups, trucks, and dollies at their property at 5010 Azusa Canyon Road.[24] On February 10, 1966 at 10 am, a blaze erupted in the office building/warehouse and was fumed out of control by high winds. The interior of the structure was gutted with damages estimating around $500,000.[25]

After the original office and warehouse were destroyed by fire, the General Telephone Company hired Beckhart & Mill to design the current Office Building and Warehouse that is situated on the west property line of the lot as well as a Truck Wash and other Ancillary Building located in the middle of the lot and at the east lot line. Verizon obtained the lot at around 2000, and then Frontier Communications obtained the lot around 2016.

Construction History

The original building permits for the property were issued to owner General Telephone Company of California on January 15, 1957 for the delivery of concrete. The building permit for the original office building and warehouse that were destroyed by fire was issued on March 13, 1957. The architect was Daniel, Mann, Johnson, & Mendenhall (DMJM). The first permit called for a 25'x550' two-story office and warehouse building valued at $290,000.00 (Building Permits are included in **Appendix C**). On November 12, 1957, a permit was issued for a 40'x225' vehicle service building to be built on the north property line and to be designed by DMJM. Also built in 1957 was a gasoline pump canopy, salvage shed, and tool shed. In 1964, a permit was issued for telephone equipment storage and vehicular access as well as a liquid gas storage shelter and a tool shed.

Subsequent of the fire that gutted the original warehouse/office building, General Telephone Co had a permit issued on June 17, 1966 for its demolition. On July 14, 1967, a permit was issued for a retaining wall, and on July 26, a permit was issued for a new 5,980 square foot Office Building and Warehouse designed by Beckhart & Mill valued at $370,000. A permit for an underground tank was issued on July 28, 1967, and for a new 6,750 square foot truck and for a 280 square foot gas island were issued on August 14, 1967. Two lubrication lifts were added to the existing

[23] "Nine Fireman Overcome in Irwindale Fire." *The Los Angeles Times* (Los Angeles, CA), Feb 12, 1966, p. 32; "Firemen Treated for Fumes After Big Valley Blaze," Pasadena *Independent* (Pasadena, CA), Feb 12, 1966, p. 8.

[24] "Auction 103," *The Los Angeles Times* (Los Angeles, CA), Apr 25, 1965.

[25] "Nine Fireman Overcome in Irwindale Fire." *The Los Angeles Times* (Los Angeles, CA), Feb 12, 1966, p. 32; "Firemen Treated for Fumes After Big Valley Blaze," Pasadena *Independent* (Pasadena, CA), Feb 12, 1966, p. 8.

vehicle service building on August 9, 1968, and an addition to the Truck Wash as well as the Office Building was permitted on November 7, 1969.

The Office Building was being remodeled and General Telephone Co. received a permit on January 9, 1985 for a trailer for temporary office use during the remodeling. On January 6, 1986, General Telephone Company of California and the architect R.T. Santos, AIA got a permit to remodel the Office Building to add a wall, four new doors, a unisex bathroom, exit ramp, air conditioning, and to rearrange the offices. The contractor was Larry Brown. The roofing of the main office building was repaired on March 12, 1986. On July 27, 1993, a permit was issued for industrial waste operations to treat/store/dispose industrial waste materials located at the facility. Further interior rehab was issued on October 14, 1994, June 7, 1995, and August 15, 1995. On February 13, 1996, a permit was issued to install a new fueling system. The architect was Tait and Associates and the contractor was Petroleum Contractors Inc. A new canopy designed by Wharton and Associates was issued on June 30, 1996.

After Verizon acquired the property, they were issued a permit on November 20, 2000 for a new Verizon sign. They also reroofed the building on April 7, 2014. The final permit to be issued was to Frontier Communications Inc. on September 14, 2016 for three new non-illuminated aluminum signs. This history is summarized below in **Table 1**.

Observed Alterations

Unpermitted or undocumented changes to the Project Site include the replacement of large portion of the glazing (windows) on the west elevation of the Office Building; and the replacement of the original entry railings. The rear (west) elevation of the Office Building also features alterations to the curtain wall (asbestos panels), the entry railings have been replaced, and glazing has been replaced. There have also have been two additions to the Fleet Maintenance Building on the west and east elevation.

TABLE 1
5010 AZUSA CANYON ROAD
IRWINDALE DEPARTMENT OF BUILDING AND SAFETY BUILDING PERMITS[26]

Date	Permit Number	Owner	Architect (A) and/or Contractor (C)	Valuation	Description
1/15/1957	-	Gen. Tel. Co. of Calif. Covina Storeroom & Yard Facilities	Architect: A.C. Martin & Associates, Contractor: Ford J. Twaits Corporation	-	2,500 pounds and 3000 pounds concrete at 28 days for foundation, walls, beams, suspended slabs, slabs on grade
3-13-1957	-	Gen. Tel. Co of California	Daniel, Mann, Johnson, & Mendenhall	$290,000	Size of lot: 660x526. Build a 24x550 foot two story plus pent office and warehouse building
11/12/1957	8254	Gen. Tel. Co. of Calif.	Daniel, Mann, Johnson & Mendenhall	$60,000	40x225 feet vehicle service building

[26] Documentation exists for all permits and certificates of occupancy listed in this table.

Date	Permit Number	Owner	Architect (A) and/or Contractor (C)	Valuation	Description
11/12/1957	8455	Gen. Tel. Co. of Calif.	Daniel, Mann, Johnson & Mendenhall	$200	Scales pit 250 square feet
11/12/1957	8456	Gen. Tel. Co. of Calif.	Daniel, Mann, Johnson & Mendenhall	$750	Gasoline pump canopy
11/12/1957	8255	Gen. Tel. Co. of Calif.	Daniel, Mann, Johnson & Mendenhall	$1,000	Salvage shed (junk bins)
11/12/1957	8669	Gen. Tel. Co. of Calif.	Daniel, Mann, Johnson & Mendenhall	$1,000	Tool shed
6/10/1964	30973	Gen. Tel. Co. of Calif.	Owner	$2,000	Tel. equip. storage and vehicle access
-	8457	General Telephone Company of California	Daniel, Mann, Johnson & Mendenhall	$200	Liquid gas storage shelter
-	8459	Gen. Tel. Co. of Calif.	Daniel, Mann, Johnson & Mendenhall	$1,000	Tool shed
6/17/1966	1061	Gen. Tel. Co. of Calif.	Beckhart & Mill	$5,485	Demo warehouse office building
6/17/1966	1023 1026 1029	Gen. Tel. Co. of Calif.	Beckhart & Mill	$14,800	
7/14/1967	1393	Gen. Tel. Co. of Calif.	Beckhart & Mill	$10,800	High and low retaining walls and yard walls
7/24/1967	1143 1203	Gen. Tel. Co. of Calif.	Beckhart & Mill	$370,000	Offices Building “B” (Office Building)
7/26/1967	1144	General Telephone	Beckhart & Mill	$90,000	5980 square foot new offices and warehouse
7/28/1967	1305	Gen. Tel. Co. of Calif.	Beckhart & Mill	$250	Underground tank
-	2141	Gen. Tel. Co. of Calif.	Beckhart & Mill	$800	Demolition of 5200 square feet
8/14/1967	1145	Gen. Tel. Co. of Calif.	Beckhart & Mill	$13,000	New truck wash 6,750 square feet
8/14/1967	1145 1206	Gen. Tel. Co. of Calif.	Beckhart & Mill	$7,000	New structure: 280 square feet, gas island
8/14/1967	-	Gen. Tel. Co. of Calif.	Beckhart & Mill	$2,250	New 300 square foot truck wash
8/9/1968	1942	Gen. Tel. Co. of Calif.	Beckhart & Mill	$10,000	Addition of two lubrication lifts in existing vehicle service building
11/7/1969	2140	Gen. Tel. Co. of Calif.	Beckhart & Mill	$2,000	Addition to truck wash
11/7/1969	2139	Gen. Tel. Co. of Calif.	Beckhart & Mill	$45,000	Add 1,600 square feet offices, shop, etc
1/15/1975	5557	Gen. Tel. Co. of Calif.	Mount Joy Construction	$15,000	Alteration

Date	Permit Number	Owner	Architect (A) and/or Contractor (C)	Valuation	Description
1/9/1985	-	-General Telephone	-	-	Trailer for temporary office use while remodel work is being done
1/6/1986	-	General Telephone Company of California	R. T. Santos, AIA (A), Larry Brown, General Contractor	$40,000	Add 116LE of 9 foot demoun. Wall. 4 new doors, add unisex h.c. toilet and ext. ramp and matching 1ts and a.c. rearranging in offices (B2)
3/12/1986		GTE	H&M Roofing	$21,000	Repair roofing of administration and supply building
7/27/1993	000009136	Gen. Tel. Co. of Calif.	-	-	Industrial waste operations to treat/store/dispose industrial waste materials located at the facility above under the sanitary sewer and industrial waste ordinance for the local ordinance
10/14/1994	-	GTE	Jean Amador	$9,492	Interior Rehab
1/31/1995	-	-	-	$27,000	Partial (106 square feet) reroof of building
6/7/1995	-	GTE	Jean Amador	$21,000	Tenant improvement, coin center repair, storage areas
8/15/1995	-	GTE	Jean Amador	$16,000	T-bar ceiling grid (2nd Adm Building)
2/13/1996	IR96043-03	GTE California	Tait and Associates (A); petroleum Contractors, Inc. (C)	$10,000	Install fueling system-remodel and install (500 gal, 12,000 gal
6/30/1996	IR96043-03	GTE California	Wharton and Associates	$13,125	Install new canopy
11/20/2000	-	Verizon	Swain Sign	$1,500	Put a Verizon sign
4/7/2014	BL 0506 1312110052	Verizon Communications	Nations Roof	$46,280	Reroof commercial building: tear off built-up roof; install (N) dens decking and polyisocyanurate insulation and .6 mil tpo.
9/14/2016	BL 0506 1604130071	Frontier Communications Inc	All California Signs	$3,670	3 new non-illuminated aluminum signs for "Frontier" Communications: 20 square feet/11 square feet/1.6 square feet

Beckhart & Mill, Architectural Firm

Beckhart & Mill were an architectural firm that was established in 1962 by architects Delmer Denman Beckhart and John Stuart Mill.[27] They were responsible for the design of the Office, Warehouse, and Truck Wash on the Project Site, which were built in 1967. In 1963, the firm was selected by Ralph's Grocery Co. to renovate and enlarge the Colorado-Verdugo Outlet in Glendale.[28] A 1967 newspaper noted that they designed buildings for Ralph's (Grocery Stores), the General Telephone of California, Janss Corporation, Electro-Optical Systems Inc., and Pacific Telephone, as well as for private residences.[29]

The firm added another partner in 1969, and became Harrison, Beckhart & Mill.[30] After the addition of the new partner they took on larger contracts, and in 1972 were awarded the contract

27 Larry Washburn, "Competition for Center," *Independent Star-News*, February 19, 1967.

28 "Chain to Renovate, Enlarge Colorado-Verdugo Outlet," *Los Angeles Times* (Los Angeles, CA), April 28, 1963.

29 Larry Washburn, "Competition for Center," *Independent Star-News*, February 19, 1967.,

30 "Harrison, Beckhart & Mill, Architects," accessed April 13, 2018, https://www.caopendata.com/C0577387-harrison-beckhart-mill-architects.

to design the East Los Angeles College Library annex.[31] In 1977, the firm was again selected to design the Nursing Building on the East Los Angeles Campus, and the Pasadena Athletic Club.[32]

In 1980s, the firm designed "One South Orange Grove," in the Postmodern style (**Figure 8).** In 1983, the firm merged with Pedersen & Wesley.

In 1993, Delmer Beckhart at the age of 59 passed away from cancer.[33] Beckhart was most remembered as the Pasadena Chamber of Commerce President, President of the Rose Bowl Parade, and an active volunteer in Pasadena. No additional information was found on John S. Mill.

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SOURCE: Redfin, 2018

Figure 8
One South Orange Grove, c. 1980s

Daniel, Mann, Johnson & Mendenhall (DMJM), Architect

The Fleet Maintenance Facility on the Project Site was designed by the firm Daniel, Mann, Johnson & Mendenhall (DMJM) which was "one of the first combined architect and engineering firms in the Western United States."[34] It began in 1946 as a partnership between architects Phillip

31 C.R. Donaldson, "Firm Named to Design ELAC Library Annex," *Los Angeles Times* (Los Angeles, CA), August, 5, 1972.

32 "$1.7 Million Nursing Building Underway on East LA College Campus," *Los Angeles Times* (Los Angeles, CA), August 28, 1977; and "Pasadena Athletic Club Opens at New Location," *Los Angeles Times* (Los Angeles, CA).

33 Ken Ellingwood, "Tournament of Roses President Beckhart Dies," *Los Angeles Times* (Los Angeles, CA), June 21, 1993.

34 "Daniel, Mann, Johnson and Mendenhall (DMJM) (Partnership)," Pacific Coast Architecture Design Database, accessed April 10, 2018, .http://pcad.lib.washington.edu/firm/99/.

James Daniel, Arthur Edwin Mann, and S. Kenneth Johnson, and engineer Irvan F. Mendenhall.[35] DMJM grew rapidly in postwar Southern California, and was one of the region's largest full-service design and engineering firms. By 1970, it comprised offices across the Western United States and Hawaii. In 1973, it opened a branch office in Baltimore, Maryland.[36]Ashland Oil, Inc., of Kentucky purchased the firm in 1984 before selling it in 1990 back to its employees, who proceeded to form the parent firm AECOM in 1990. In 2000, AECOM split DMJM into several subsidiaries.[37]

DMJM designed numerous, mostly modernist buildings and infrastructure in Southern California over its decades in operation. Its clientele was mainly institutional and reflected work for governmental and corporate entities. Some notable examples of its work, all in the City of Los Angeles, include the American Cement Company office building in 1964, later converted to lofts (**Figure 9**); the Century City Medical Plaza in 1966 (**Figure 10**), the United States Postal Service Worldway Postal Center in 1968, which was designed by DMJM associate architects Cesar Pelli and Anthony Lumsden and won an Honor Award from the Southern California chapter of the American Institute of Architects in 1969; the Bunker Hill Third Street Tunnel Extension in 1968, also designed by Lumsden and Pelli; and the County of Los Angeles Edward R. Roybal Comprehensive Health Center in 1979.

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The Architect's Newspaper

Figure 9
American Cement Company Building (Lofts), 1964

35 "Daniel, Mann, Johnson and Mendenhall (DMJM) (Partnership)," Pacific Coast Architecture Design Database, accessed April 10, 2018, http://pcad.lib.washington.edu/firm/99/.

36 "Daniel, Mann, Johnson and Mendenhall (DMJM) (Partnership)," Pacific Coast Architecture Design Database, accessed April 10, 2018, http://pcad.lib.washington.edu/firm/99/.

37 "Daniel, Mann, Johnson and Mendenhall (DMJM) (Partnership)," Pacific Coast Architecture Design Database, Accessed April 10, 2018, http://pcad.lib.washington.edu/firm/99/.

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Century City Office Space

Figure 10
Century City Medical plaza, 1966

Occupancy and Ownership History

City directories and building permits on file with the City's Building Division, as well as newspapers, were reviewed to determine if the Project Site has any significant associations with the productive lives of historic personages or companies. **Table 2** summarizes the occupancy and ownership history of 5010 Azusa Canyon Road.

TABLE 2
OCCUPANCY HISTORY FOR 5010 AZUSA CANYON ROAD

Year	Source	Occupant
1967-2000	Irwindale Department of Building and Safety Permits	General Telephone Company of California
2000-2016	"General Telephone and Electronics Corporation," *Techopedia*, accessed April 24, 2018, https://www.techopedia.com/definition/11576/general-telephone-and-electronics-corporation-gte.	Verizon
2016-present	Frontier.com	Frontier Communications Inc.

The first company to acquire and develop 5010 Azusa Canyon Road was the General Telephone Company of California, a part of GTE Corporation, in 1957. GTE was founded in 1926 as Associated Telephone utilities by Sigurd Odegard in Wisconsin, but it went bankrupt during the great depression. In 1934, it was reorganized as GTE. It manufactured industrial electronic consumer devices, even electronic equipment for the U.S. military. Donald C. Power became president in 1950. Under Power's leadership, the business bought the Automatic Electric Company, a telephone equipment manufacturer in 1958, and then merged with Sylvania

Electronics. These two acquisitions made it so GTE could manufacture the electronic switching systems needed by a telephone company.[38]

It became the largest independent company providing telephone services to large areas in the United States through their operating companies. In 1979, it acquired Telenet and entered the data processing field. By the late 1980s, GTE was operating in around 40 countries around the world. In 1997, it bought one of the earliest internet service providers, BBN Planet.[39]

On June 30, 2000, GTE merged with Bell Atlantic and became Verizon Communications with Verizon California in California. On April 1, 2016, Verizon California was sold to Frontier Communications.

Mid-Century Modern Architecture (1945-1980)

The Office Building on the Project Site is a later example of the Mid-Century Modern Style. Mid-Century Modern style architecture is a regional derivative of the International Style and was widely constructed in Post-World War II Los Angeles and its environs and was used for both residential and commercial buildings. High or International Style modernism conforms to specific character defining features as discussed by Henry-Russell Hitchcock and Phillip Johnson in their seminal 1932 publication, *The International Style*. Here the authors state that buildings must have a rectilinear form, open floor plan articulated through materials, and lack of ornamentation. The International Style tenants diffused in local culture. In 1945 John Entenza initiated the Case Study program in Los Angeles through his magazine, *Arts & Architecture* in an effort to bring High Style modernist design to the masses through affordable and functional housing. In addition, modernist architectural design was suitable to the Southern California climate through its use of glass to emulate an ideal of indoor/outdoor living. Local and vernacular interpretations of the International Style allowed for less formality through the use of materials, forms, and spatial arraignments. Mid-Century Modern architecture is more modest than the International Style and emphasis is often placed on stylized architectural focal points and features.

Mid-Century Modern design used sleek, simplified geometry and asymmetrical, intersecting angular planes of masonry volumes and glass curtain walls, locked together by a flat planar roof. Designers embraced the optimistic spirit of the time, experimenting with the newest technologies and materials in building, such as concrete and aluminum, and incorporating futuristic elements. The features of the Mid-Century Modern style are simple geometric forms, post-and-beam construction, flat or low-pitched gabled roofs often with overhanging eaves, flush mounted steel framed windows or large single-paned wood-framed windows, and brick or stone often used as primary accent material.

One of the earliest examples in Irwindale of the style is the Electrotechnic Corporation building, built circa 1950. Many of the commercial buildings in Irwindale built during this era were very

[38] The Editors of Encyclopedia Britannica, "GTE Corporation, American Company," *Encyclopedia Britannica,* accessed April 24, 2018, https://www.britannica.com/topic/GTE-Corporation.

[39] "General Telephone and Electronics Corporation," *Techopedia*, accessed April 24, 2018, https://www.techopedia.com/definition/11576/general-telephone-and-electronics-corporation-gte.

simplistic in their design as many of the buildings were being built for industrial uses and not for aesthetics.

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SOURCE: J. Allen Hawkins Collection at the Pasadena Museum of History

Figure 11
Exterior of Electrotechnic Corporation at 15601 Arrow Highway, 1950

Utilitarian Style (1860 – present)

As their name indicates, Utilitarian buildings are designed to be functional, and are usually constructed with inexpensive materials and have limited applied design. Their era of construction or location often dictates the materials utilized to construct these buildings. The buildings on the Project Site are from the 1950s and 1960s, and as such their construction methods and appearance are characteristic of the modern post-World War II period.

Evaluation

Historic Resources Identified

Located within an urban setting, the archival records search was conducted within a quarter (0.25) mile radius to capture all known resources within the Project vicinity which may have views of the Project Site for the purpose of analyzing potential indirect impacts. The archival records

search involved review of ESA in-house files and review of the National Register, California Register, California Historic Resources Inventory, City of Irwindale Official Register of Historic Resources, and the City of Baldwin Park's Local Register to identify previously identified historical resources within the Project vicinity. In the pedestrian survey of the area, ESA did not identify any unevaluated potentially eligible properties within the project vicinity. One potential historical resource was identified, which is located at 4951 Azusa Canyon Road in Baldwin Park. This resource was previously evaluated as part of a Section 106 and HUD Housing process. It was given a 6Y status which indicates that it was "Determined ineligible for NR by consensus through Section 106 process – Not evaluated for CR or Local Listing." As such, it may be eligible for the CR or local listing. 4951 Azusa Canyon Road would have indirect views of the Project Site upon project completion.

Previous Evaluations of the Project Site

The Project Site has not been previously evaluated in a city-wide survey or other historic resources evaluations.

Evaluation of Potential Historical Resources within the Project Site

Architectural Description

The Office Building occupies a parcel on the east side of Azusa Canyon Road. It is improved with a two-story mid-century modern commercial building built in 1963 along the front (west) property line.

Office Building

The Office Building is a rectangular shaped, westward oriented building with horizontal massing, clad in yellow brick, concrete framing, and curtain wall with aluminum mullions, asbestos spandrel panels, and a flat roof **(Figure 12)**. In front of the building along the street is a long thin lawn area with bushes and mature trees on either side of the building. Vehicular access to the parking lot behind the subject building is on Nubia Street or through a driveway north of the structure.

The west (front) façade has an entry porch under a flat concrete slab and up concrete steps. The entryway is set back from the front façade. Above the entry porch is a ribbon of five iron-framed windows. To the south of the entryway are three additional sets of iron framed ribbon windows on the top and bottom floors **(Figure 13)**.

The north (side) elevation has brick walls and concrete framing with one floor-to-ceiling iron window on the second floor and a glass and iron door on the first floor **(Figure 14)**. The south (side) elevation has a floor-to-ceiling iron window on the second floor, a glass and iron door on the first floor, and grilles to the east **(Figure 15 and 16)**.

5010 Azusa Canyon Road HRA/D171221.00

SOURCE: ESA 2018

Figure 12
The commercial building's primary (west) elevation, view northeast

5010 Azusa Canyon Road HRA/D171221.00

SOURCE: ESA 2018

Figure 13
The commercial building's primary (west) elevation, view southeast

5010 Azusa Canyon Road HRA/D171221.00

SOURCE: ESA 2018

Figure 14
The north (side) elevation

5010 Azusa Canyon Road HRA/D171221.00

SOURCE: ESA 2018

Figure 15
South (side) elevation

5010 Azusa Canyon Road HRA/D171221.00

SOURCE: ESA 2018

Figure 16
South (side) elevation

Warehouse

The Warehouse is a large rectangular building located in the center of the parking lot that is built in the Utilitarian style and is simplistic in design. It has vertical wood siding with iron detailing at the windows and doors. The north portion is slightly higher than the south. It has aluminum windows and doors **(Figure 17 and 18)**.

5010 Azusa Canyon Road HRA/D171221.00

SOURCE: ESA 2018

Figure 17
West elevation of the Warehouse

5010 Azusa Canyon Road HRA/D171221.00

SOURCE: ESA 2018

Figure 18
East elevation of the Warehouse

Fleet Maintenance Building

The Fleet Maintenance Building is located on the north lot line. It has 10 bays (garage openings with rolling garage doors. It has stucco siding and a flat roof **(Figure 19)**. It is a Utilitarian style building and devoid of architectural character, and is utilitarian in function and design.

5010 Azusa Canyon Road HRA/D171221.00

SOURCE: ESA 2018

Figure 19
South elevation of the Fleet Maintenance Building

Barn

The Barn is located on the rear (east) property line. It is a Utilitarian style and void of architectural character. Its walls are made from corrugated iron and has a corrugated iron side-facing gable roof. There are three small door openings and one large door opening on the west façade **(Figure 20)**.

5010 Azusa Canyon Road HRA/D171221.00

SOURCE: ESA 2018

Figure 20
West and south elevation of the Barn

Truck Wash

The Truck Wash is located west of the Fleet Maintenance Building. It is Utilitarian style structure and void of architectural character. It has corrugated metal walls with ribbon window openings near the flat roof. Its east and west elevations don't have walls to facilitate trucks driving through for cleaning **(Figure 21)**.

5010 Azusa Canyon Road HRA/D171221.00

SOURCE: ESA 2018

Figure 21
South and east elevation of the Truck Wash

Significance Evaluation

The Project Site was evaluated under the following historical and architectural themes: Commercial and Industrial Development of Irwindale; Mid-Century Modern style (1945-1970), Utilitarian style (1860-present); and architects Beckhart & Mill and DMJM. ESA also conducted research on the Project Site's construction and occupancy history. ESA evaluated the Project Site against the criteria for the National Register, California Register, and as a local landmark.

As explained below, ESA found the buildings and the structure on the Project Site ineligible under all applicable federal and state criteria. Furthermore, ESA found the buildings and structure on the Project Site ineligible at the local level under all criteria (A through H).

National Register, California Register, City of Irwindale

Broad Patterns of History

With regard to broad patterns of history, the following are the relevant criteria:

- National Register Criterion A: Is associated with events that have made a significant contribution to the broad patterns of our history.
- California Register Criterion 1: Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.

The buildings and structure (Office Building, Fleet Maintenance Building, Warehouse, Truck Wash, and Barn) on the Project Site do not significantly represent broad patterns of our history or heritage. The Project Site was first developed in 1957 with the Fleet Maintenance Building (extant) and the original office and warehouse building that were destroyed in a fire in 1966. In 1967, General Telephone Company built the remaining extant buildings and structure on the site to be able to dispatch and repair their fleet of trucks. By this time the area including the City of Irwindale were well established as a commercial industrial hub for the greater Los Angeles area, which began in the 1920s and diminished by 1970. Once the City was incorporated in 1957, the City continued to be dominated by the mining industry through the 1970s. Furthermore, the General Telephone Company within the City did not have a significant impact on the City of Irwindale, California or United States. **As result, the Project Site is recommended ineligible for listing under National Register Criterion A and California Register Criterion 1 for its significant historical associations with Commercial and Industrial Development of Irwindale.**

Significant Persons

With regard to associations with important persons, the following are the relevant criteria:

- National Register Criterion B: Is associated with the lives of persons significant in our past.
- California Register Criterion 2: Is associated with the lives of persons important in our past.

There is no evidence to suggest the Project Site is associated with the productive lives of historic personages. The known longtime occupant of the Office Building and other buildings on the

Project Site was General Telephone Company. No other individual people of importance were found to be associated with the Project Site. **Therefore, the Project Site is recommended ineligible for listing under National Register Criterion B or California Register Criterion 2**

Architecture

With regard to architecture, design, or construction, the following are the relevant criteria:

- National Register Criterion C: Embodies the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.
- California Register Criterion 3: Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.

The Warehouse (1967), Fleet Maintenance Building (1957), Barn (1967), and Truck Wash (1967) are all simplistic and utilitarian in design and void of architectural detailing. As mentioned above, the Fleet Maintenance Building was designed by DMJM in 1957; the Warehouse, Barn, and Truck Wash were designed by Beckhart & Mill in 1967. These buildings and structures are not architecturally distinctive and have simple rectangular massing, flat or gabled roofs, a mix of cladding (stucco, steel, or aluminum siding). These buildings were utilitarian support facilities for the General Telephone Company operations and were not architecturally or historically significant in design or development of commercial buildings. Furthermore, though they were designed by their respective architects DMJM, and Beckhart & Mill, these are not the best representative works of these two architectural firms. DMJM is considered an influential firm whom transformed much of the late twentieth century corporate architecture, the Fleet Maintenance Building is a simple long rectangular building with a Utilitarian style, a building that is not influential, nor distinctive, and does not rise to threshold of significance, which DMJM is known for.

The remaining buildings, including the Office Building were designed by local Eagle Rock architectural firm Beckhart & Mill. Early in the firm's career they designed many smaller low-key commercial buildings for different corporate entities (Ralph's, Janss Corporation, Electro-Optical Systems). It was not until the business became Harrison, Beckhart, & Mill in 1969 that the firm expanded their reach and developed their portfolio. Similar to the Fleet Maintenance Building, the Warehouse, Barn, and Truck Wash are not the best representation of the Beckhart & Mill firm, as these two buildings and structure are very simplistic and represent ancillary and support buildings for the General Telephone Company.

The Beckhart & Mill designed Office Building on the Project Site was designed in the Mid-Century Modern style, a prolific style throughout Southern California at the time. The Office Building, has some of the character-defining features of the style, such as a flat roof, flat concrete canopy over the entry, a curtain wall with aluminum mullions and asbestos spandrel panels. The Office Building's design, in particular, the curtain wall element with aluminum mullions and asbestos panels, was very popular across the United States and gained popularity in 1948 but

withered by 1965. Some of the first buildings that featured the curtain wall were the Equitable Savings & Loan Building (1948) in Portland, Oregon and the Leverhouse (1952) in New York City. In Los Angeles County there are many excellent examples of the Mid-Century style by master architects including Welton Becket & Associates, William L. Pereira & Associates, O. Stiles Clement, and A.C. Martin. As a late addition to the Mid-Century Modern architectural landscape that only emulated the features of the popular style of the time, the Office Building on the Project Site was not original in its design and does not rise to the threshold of a building that exemplifies the style. Furthermore, Beckhart & Mill are not considered master, or even notable architects. Finally, the Office Building does not possess high artistic value and was not distinctive in its design. As such, the Office Building does not meet the criteria for listing on the National or California register. **Therefore, the Project Site is recommended ineligible for listing under National Register Criterion C and California Register Criterion 3.**

Data

- National Register Criterion D. It yields, or may be likely to yield, information important in prehistory or history.
- California Register Criterion 4. Has yielded, or may be likely to yield, information important in prehistory or history.

While most often applied to archaeological districts and sites, Criterion D/4 can also apply to buildings, structures, and objects that contain important information. In order for these types of properties to be eligible under Criterion D/4, they themselves must be, or must have been, the principal source of the important information. The buildings and structures on the Project Site do not appear to yield significant information that would expand our current knowledge or theories of design, methods of construction, operation, or other information that is not already known about the period of significance of the Residence, its method of construction, or its design. **Therefore, the Project Site is recommended ineligible for listing under National Register Criterion D and California Register Criterion 4.**

City of Irwindale

Criteria for listing on the Official Register of Historic Places
A building or structure shall be designated a historic building if the City Council finds one or more conditions (including but not limited to the following) exist with reference to such building or structure:

A. The building or structure proposed for designation is particularly representative of a historic period, type, style, region, or way of life.

   The buildings and structure (Office Building, Fleet Maintenance Building, Warehouse, Truck Wash, and Barn) do not particularly represent a specific historic period, type, region, or way of life. As mentioned in the historic context section, the City of Irwindale's commercial and industrial period began in the 1920s and culminated in the 1950s, when the City of Irwindale was incorporated. Early commercial buildings were built in the city to support the aggregate mining operations that Irwindale was known for. By 1957 and 1967 when the buildings were constructed on the Project Site, the City of Irwindale commercial and industrial identity was fully developed. Most of the buildings and the structure on the Project Site are simplistic and

utilitarian in design, and are support buildings that do not reflect a particularly style or type. The Office Building on the Project Site is an example of the Mid Century style, but is not a particularly representative of the style, as there are many excellent examples of the style across Los Angeles County and Southern California. Furthermore, the buildings and structure on the Project Site do not represent a particular way of life as they include a commercial building and support buildings, which do not readily not communicate a way of life, unlike an aggregate mine or agricultural facility would represent a way of life. *Therefore, the Project Site is recommended not eligible under this criterion.*

B. The building or structure was connected with someone renowned, important, or a local personality.

There is no evidence to suggest the Project Site is associated with the productive lives of historic personages. The known longtime occupant of the Office Building and other buildings on the Project Site was General Telephone Company. No other individual people of importance were found to be associated with the Project Site. *Therefore, the Project Site is recommended not eligible under this criterion.*

C. The building or structure is connected with a business or use which was once common but is now rare.

The buildings on the Project Site are associated with the General Telephone Company, which merged with the Verizon company. Telecommunication companies are not a rare business as there are many examples with in Southern California, including AT&T, Verizon, Sprint, Frontier, Spectrum, Comcast, etc. *Therefore, the Project Site is recommended not eligible under this criterion.*

D. The building or structure represents the work of a master builder, engineer, designer, and artist or architect whose individual genius influenced his/her age.

The buildings on the Project Site were designed by two separate firms DMJM and Beckhart & Mill. The oldest is the Fleet Maintenance Building, which was designed by notable architect DMJM. However, this building features a utilitarian design and does not represent an excellent, or even good example of their work.

The other buildings and structures on the Project Site (Office Building, Warehouse, and Truck Wash) were designed by the architectural firm Beckhart & Mill. Beckhart & Mill were architects that primarily worked in East Los Angeles and Pasadena. Many of their early commissions were for commercial buildings and private residence and clients included Ralph's (Grocery Stores), General Telephone of California, Janss Corporation, Electro-Optical Systems Inc., and Pacific Telephone. Beckhart & Mill did not influence the trends of architecture, or the Modern style, which they most often designed in and are not considered master architects. *Therefore, the Project Site is recommended not eligible under this criterion.*

E. The building or structure is the site of an important historic event or is associated with events that have made a meaningful contribution to the nation, state or city.

No important events were identified in research that indicated that the building and structures on the Project Site are not associated with events that have made a meaningful contribution to the nation, state, or city. The Project Site was built for the General Telephone Company who used the facility for office, storage, and fleet maintenance and dispatch. Only one event was documented on the Project Site, which was a 1966 fire that caused damage to the original

office and warehouse, which does not contribute to nation, state, or city history. *Therefore, the Project Site is recommended not eligible under this criterion.*

F. The building or structure exemplifies a particular architectural style.

The Office Building on the Project Site is the only building with a notable style. The Office Building was designed in the Mid-Century Modern style in 1967, toward the latter end of the Mid-Century style movement. The Office Building has some of the character-defining features of the style, such as a flat roof, flat concrete canopy over the entry, a curtain wall with aluminum mullions and asbestos spandrel panels. The Office Building design in particular, the curtain wall element with aluminum mullions and asbestos panels, was very popular across the United States and gained popularity in 1948 and withered by 1965. Some of the first buildings that featured the curtain wall were the Equitable Savings & Loan Building (1948) in Portland, Oregon and the Leverhouse (1952) in New York City. In Los Angeles County there are many excellent examples of the Mid-Century style by master architects including Welton Becket & Associates; William L. Pereira & Associates; Skidmore, Owings, & Merrill; and A.C. Martin. The Office Building on the property does not rise to the threshold of a building that exemplifies the style, and furthermore it is a late addition to the Mid-Century Modern architectural landscape, and only emulated the popular style of the time and was not original in design. *Therefore, the Project Site is recommended not eligible under this criterion.*

G. The building or structure exemplifies the best remaining architectural type of a neighborhood.

As mentioned above, the only building with a notable style is the Office Building designed in the Mid-Century Modern style in 1967. Though the Mid-Century style is not popular in commercial buildings with in Irwindale, there is another excellent example within the City, which was a precursor to the original DMJM building and the Office Building on the Project Site. The 1950 Electrotechnic Corporation building at 15601 Arrow Highway was one of the earliest Mid-Century Modern designed building in the City and reflects the early trends in the style. This building along with the larger Mid-Century style movement in Southern California most likely influenced General Telephone's first commission for an office and warehouse building by DMJM in 1957. After the fire in 1966 that destroyed the original office building and warehouse, General Telephone commissioned local architects to design a similar style building on the Project Site. As such, the Office Building on the Project Site is not the best remaining architectural type remaining. *Therefore, the Project Site is recommended not eligible under this criterion.*

H. The construction materials or engineering methods used in the building or structure embody elements of outstanding attention to architectural or engineering design, detail, material or craftsmanship.

The four buildings and structure on the Project Site do not embody elements of outstanding attention to architectural or engineering design, material, or craftsmanship. The buildings and structure use common place materials such as brick, concrete block, aluminum mullions, large glazing (which has been extensively replaced throughout the building), and other prefabricated materials. *Therefore, the Project Site is recommended not eligible under this criterion.*

Integrity Analysis

Integrity

The National Register and California Register recognizes a property's integrity through seven aspects or qualities: location, design, setting, materials, workmanship, feeling, and association. Eligible properties should retain several, if not most, of these aspects. Both registers require that a resource retain sufficient integrity to convey its significance, and the property must retain the essential physical features that enable it to convey its historical identity. Integrity is based on significance and understanding why a property is important. *National Register Bulletin 15* states that "only after significance is fully established can you proceed to the issue of integrity" (U.S. Department of the Interior, 2002). Since the buildings on the Project Site were not identified as significant under any of the applicable national or state criteria, an integrity analysis was not conducted.

CEQA Impacts

Direct

The Office Building, Warehouse, Fleet Maintenance Building, Barn, and Truck Wash on the Project Site were evaluated for listing in the National Register, California Register, and local register and are recommended not eligible. As such, the Office Building, Warehouse, Fleet Maintenance Building, Barn, and Truck Wash on the Project Site do not meet the definition historical resources as outlined in CEQA Guidelines Section 15064.5(a)(1) or (2), and the Project would not have a direct impact on historical resources.

Indirect

Indirect impacts were analyzed to determine if the Project would result in a substantial material change to the integrity and significance of historical resources and their immediate surroundings within the Project vicinity such that their eligibility would be materially impaired. The indirect impacts study area was defined as a 0.25-mile radius from the Project Site. One potential historical resource was identified, which is located at 4951 Azusa Canyon Road in Baldwin Park. This resource was previously evaluated as part of a Section 106 and HUD Housing process. It was given a 6Y status which indicates that it was "Determined ineligible for NR by consensus through Section 106 process – Not evaluated for CR or Local Listing." As such, it may be eligible for the CR or local listing. 4951 Azusa Canyon Road was built in 1952 and is a one-story Minimal Traditional style single-family residence, which appears to be altered. 4951 Azusa Canyon Road is located approximately 300 feet southwest of the Project Site and would have indirect views of the Project Site upon project completion. The Project would include at the maximum a two one-story or two-story warehouse/office buildings. Building 1 would be approximately 186,720 square-feet and be located on the western property line along Azusa Canyon Road. Building 2 would be located at the southeastern corner where the current rear parking lot is located. This building would be similar in design to Building 1, however only be 49,300 square-feet. The residence's setting, which attributes to the residence's potential eligibility as a historical resource, has already been altered as later infill development has occurred in the area. Furthermore, the main views of the residence are towards the west and not northeast, where the Project Site is located. As such, upon Project completion, 4951 Azusa Canyon Road would

retain the same potential to be identified as eligible for either the CR or Local Listing in subsequent evaluations, as the proposed Project would not materially demolish, alter, or affect the historical integrity of the residence at 5951 Azusa Canyon Road. **Therefore, the Project would have no indirect impact on historical resources.**

Conclusion

The Project Site was evaluated under the following historical and architectural themes: Commercial and Industrial Development (1920s-1970), Mid-Century Modern Architecture (1945-1970), Utilitarian style (1860-present), and architects Beckhart & Mill and DMJM. ESA also conducted research on the Project Site's construction and occupancy history. ESA evaluated the Project Site against the criteria for the National Register, California Register, and the City's local register.

ESA found the Project Site ineligible under the applicable federal and state criteria for its significant historical associations A-D and 1-4, respectively. ESA also found the buildings and structure on the Project Site ineligible under local criteria A-H. ESA recommends that the Project Site be assigned a California Historic Resource (CHR) Status Code of 6Z; noting it as ineligible for listing in the National Register of Historic Places, the California Register of Historical Resources, and local register through survey evaluation. As such, the four buildings and one structure on the Project site (Office Building, Fleet Maintenance Building, Warehouse, Barn, and Truck Wash) are cleared for demolition as part of the proposed Project's redevelopment.

ESA analyzed potential impacts based on the proposed Project and found the Project would not have a direct impact on historical resources. Furthermore, only one potential historical resource was identified, and the Project would have no impact on that resource since, upon Project completion, 4951 Azusa Canyon Road would retain the same potential to be identified as eligible for either the CR or Local Listing in subsequent evaluations, as the proposed project would not materially demolish, alter, or affect the historical integrity of the residence at 5951 Azusa Canyon Road.

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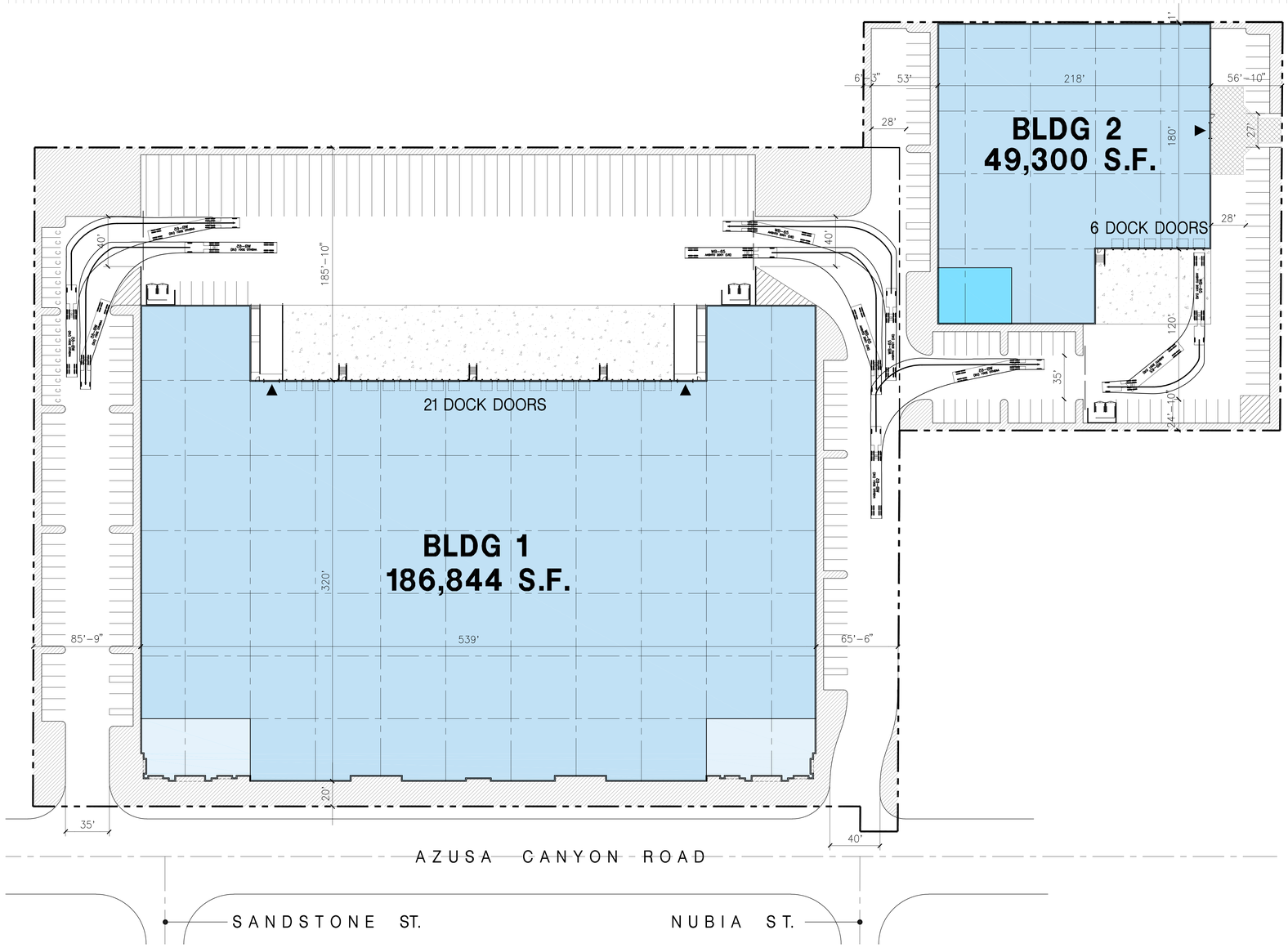
Appendix A
Project Plans

CAUTION: IF THIS SHEET IS NOT 30"X42", IT IS A REDUCED PRINT



north

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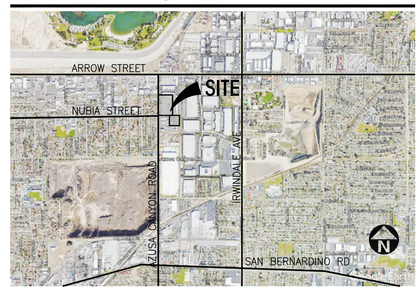
Aerial Map



Legend

- POTENTIAL OFFICE
- POTENTIAL OFFICE WITH 2ND FLOOR
- WAREHOUSE
- ▼ DRIVE THRU DOOR

Tabulation

	BLDG.1	BLDG.2	TOTAL	
SITE AREA				
In s.f.	363,656	102,160	465,816	s.f.
In acres	8.35	2.35	10.69	ac
BUILDING AREA				
Office - 1st floor	4,500	2,500	7,000	s.f.
Office - 2nd floor	4,500	2,500	7,000	s.f.
Warehouse	177,844	44,300	222,144	s.f.
TOTAL	186,844	49,300	236,144	s.f.
COVERAGE	51.4%	48.3%	50.7%	
AUTO PARKING REQUIRED				
Office: 1/350 s.f.	26	14	40	stalls
Whse: 1st 20,000 @ 1/1,000 s.f.	20	20	40	stalls
2nd 20,000 @ 1/2,000 s.f.	10	10	20	stalls
Above 40,000 @ 1/4,000 s.f.	35	0	35	stalls
TOTAL	91	44	135	stalls
AUTO PARKING PROVIDED				
Standard (9' x 19')	92	83	175	stalls
Compact (8'x15')	17	0	17	stalls
TOTAL	109	83	192	stalls
TRAILER PARKING PROVIDED				
Trailer (10' x 55')	48	0	48	stalls
ZONING ORDINANCE FOR CITY				
Zoning Designation - Light Manufacturing (M-1)				
MAXIMUM BUILDING HEIGHT ALLOWED				
Height - 35'				
MAXIMUM FLOOR AREA RATIO				
FAR - 1.0				
SETBACKS				
Building / Landscape				
Front/Street - 20' / 20'				
Side/Rear - None				
LANDSCAPE REQUIREMENT				
Percentage - 10%	36,366	10,216	46,582	s.f.
LANDSCAPE PROVIDED				
	37,676	10,300	47,976	s.f.

Note: This is a conceptual plan. It is based on preliminary information which is not fully verified and may be incomplete. It is meant as a comparative aid in examining alternate development strategies and any quantities indicated are subject to revision as more reliable information becomes available.

HPA architecture

Conceptual Site Plan

Azusa Canyon Road

Irwindale, CA

OMP
OVERTON MOORE PROPERTIES

18831 Bardeen Ave. - Ste. #100
Irvine, CA 92612
(949) 863-1770
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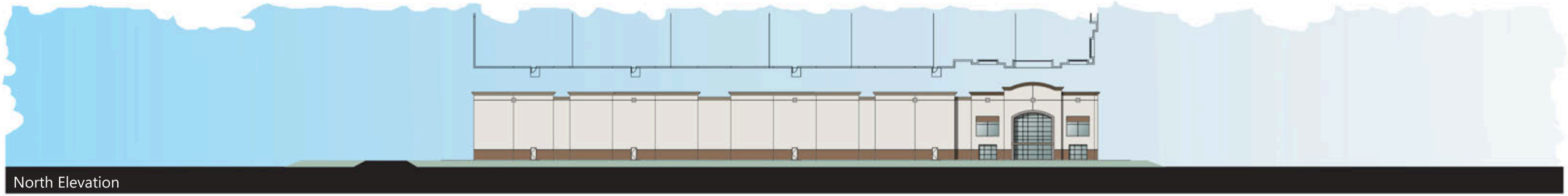
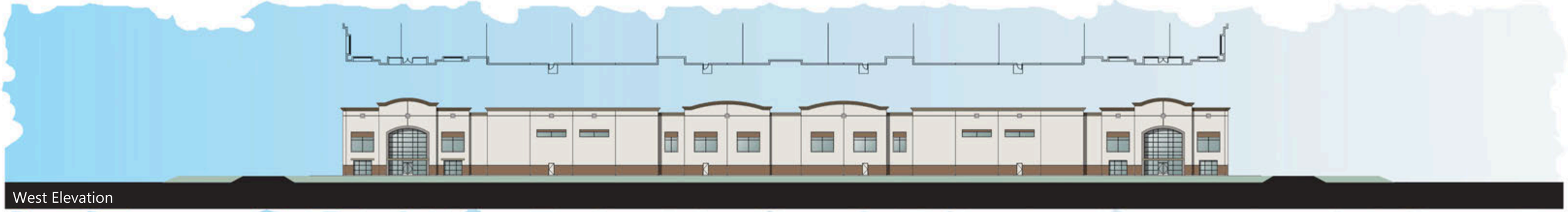
March 14, 2018 / Job #17032

Scheme 16



North Elevation



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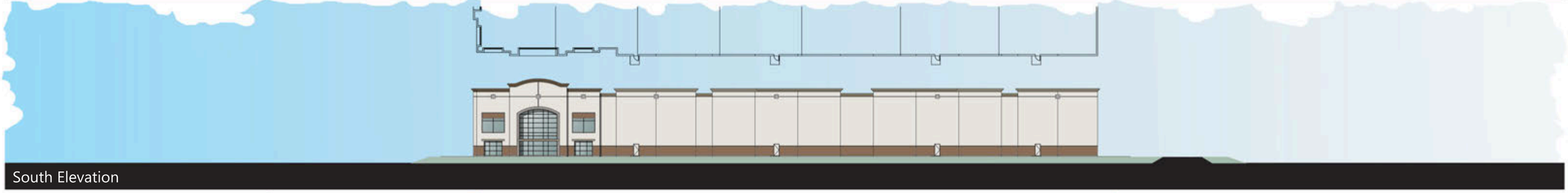
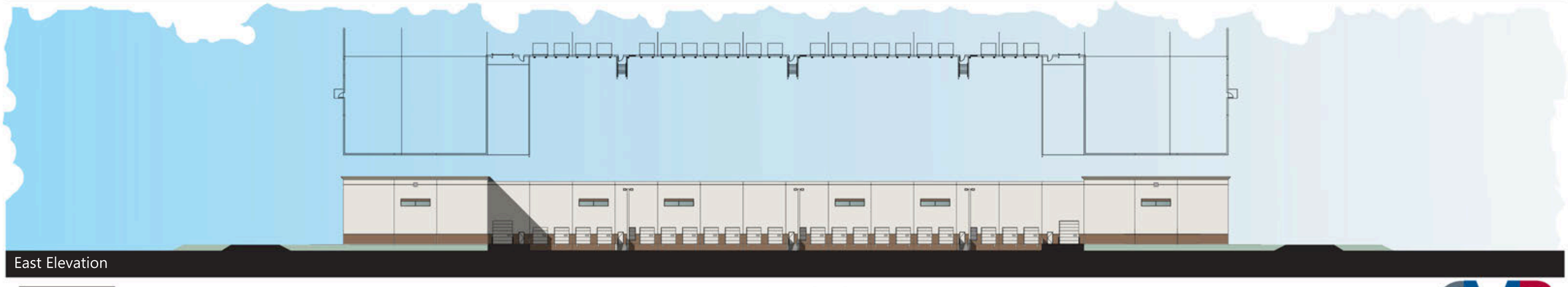


South Elevation



East Elevation

HPA architecture

Irwindale

CALIFORNIA

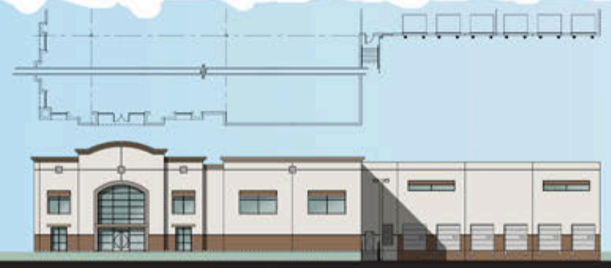
OVERTON MOORE PROPERTIES

Job No. 17032.00

CONCEPTUAL COLORED ELEVATIONS

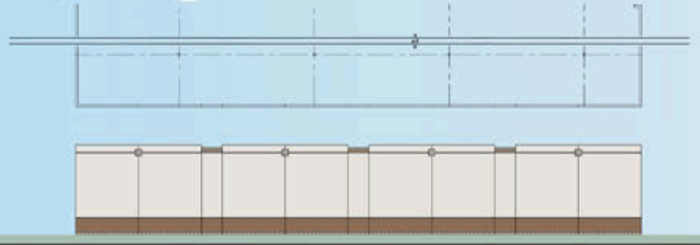
02.21.2018

North Elevation



West Elevation

South Elevation



East Elevation

HPA architecture

IRWINDALE

CALIFORNIA

OMP
OVERTON MOORE PROPERTIES

Job No. 17032.00

CONCEPTUAL COLORED ELEVATIONS - BUILDING 2

04.04.2018

Appendix B
Professional Qualifications

Margarita Jerabek, PhD

Historic Resources Director

EDUCATION

Ph.D., Art History, University of California, Los Angeles

M.A., Architectural History, School of Architecture, University of Virginia

Certificate of Historic Preservation, School of Architecture, University of Virginia

B.A., Art History, Oberlin College

30 YEARS EXPERIENCE

AWARDS

2014 Preservation Award, The Dunbar Hotel, L.A. Conservancy

2014 Westside Prize, The Dunbar Hotel, Westside Urban Forum

2014Design Award: Tongva Park & Ken Genser Square, Westside Urban Forum

Preservation Design Awards, RMS Queen Mary Conservation Plan 2012; and Restoration and Exhibit Design for Home Savings, Montebello,2016, California Preservation Foundation

PROFESSIONAL AFFILIATIONS

California Preservation Foundation

Santa Monica Conservancy

Society of Architectural Historians, Life Member

American Institute of Architects (AIA), National Allied Member

Margarita Jerabek has 30 years of professional practice in the United States with an extensive background in historic preservation, architectural history, art history and decorative arts, and historical archaeology. She specializes in Visual Art and Culture, 19th-20th Century American Architecture, Modern and Contemporary Architecture, Architectural Theory and Criticism, Urbanism, and Cultural Landscape, and is a regional expert on Southern California architecture. Her qualifications and experience meet and exceed the Secretary of the Interior's Professional Qualification Standards in History, Archaeology, and Architectural History. Margarita has managed and conducted a wide range of technical studies in support of environmental compliance projects, developed preservation and conservation plans, and implemented preservation treatment projects for public and private clients in California and throughout the United States.

Relevant Experience

Margarita has prepared a broad range of environmental documentation and conducted preservation projects throughout the Los Angeles metropolitan area and Southern California. She provides expert assistance to public agencies and private clients in environmental review, from due diligence through planning/design review and permitting and when necessary, implements mitigation and preservation treatment measures on behalf of her clients. As primary investigator and author of hundreds of technical reports, plan review documents, preservation and conservation plans, HABS/HAER/HALS reports, construction monitoring reports, salvage reports and relocation plans, she is a highly experienced practitioner and expert in addressing historical resources issues while supporting and balancing project goals.

She is an expert in the evaluation, management and treatment of historic properties for compliance with Sections 106 and 110 of the NHPA, NEPA, Section 4(f) of the Department of Transportation Act, CEQA, and local ordinances and planning requirements. Margarita regularly performs assessments to ensure conformance with the Secretary of the Interior's Standards for the Treatment of Historic Properties, and assists clients with adaptive reuse/rehabilitation projects by providing preservation design and treatment consultation, agency coordination, legally defensible documentation, construction monitoring and conservation treatment.

Margarita is a regional expert on Southern California architecture. She has prepared a broad range of environmental documentation and conducted preservation projects throughout the Los Angeles metropolitan area as well as in Ventura, Orange, Riverside, San Bernardino and San Diego counties. Beyond her technical skill, she is a highly experienced project manager with broad national experience throughout the United States. She currently manages ESA's on-call historic preservation services with the City of Santa Monica, and Los Angeles Unified School District.

EDUCATION

M.A., Public History and Teaching, University of San Diego, 2008

B.S., Anthropology and Archaeology, University of Wisconsin-Madison, 2004

15 YEARS EXPERIENCE

CERTIFICATIONS/ REGISTRATION/ EDUCATION

Registered Professional Archaeologist

PROFESSIONAL AFFILIATIONS

American Institute of Certified Planners

American Planning Association

National Trust for Historic Preservation

California Preservation Foundation

AWARDS

[insert text]

JOEL LEVANETZ, M.A., AICP, RPA

Senior Architectural Historian/Cultural Resources Specialist

Mr. Levanetz is a Secretary of Interior Professional Qualified Archaeologist, Historian and Architectural Historian. Mr. Levanetz has 15 years of experience specializing in projects involving cultural and historic resource assessments, Historic American Building Survey (HABS)/Historic American Engineering Record (HAER) documentation, and DPR 523 series form preparation.

Mr. Levanetz has overseen projects that range in scale and complexity. As project manager, Mr. Levanetz has coordinated surveys, supervised staff and subcontractors, provided quality control for data collection and technical report writing, interacted with regulatory agency personnel, maintained client communications, tracked budgets, met crucial project deadlines and established strong networks through business development.

Mr. Levanetz has a detailed understanding of relevant regulations and ordinances that affect cultural resources and historic properties, such as Sections 106 and 110 of National Historic Preservation Act (NHPA), the National Environmental Protection Act (NEPA), the California Environmental Quality Act (CEQA), and the Secretary of Interior Standards for the Treatment of Historic Properties. He has completed numerous impacts assessments and determinations of eligibility across a range of administrative levels including local, state, and National Register of Historic Places (NRHP). Among the agencies served by Mr. Levanetz are the California Department of Transportation (Caltrans), Federal Rail Administration (FRA), California High Speed Rail Authority, Federal Highway Administration, Department of Defense (DOD), Federal Emergency Management Agency (FEMA), Bureau of Land Management (BLM), National Park Service (NPS), California Energy Commission (CEC), Federal Communications Commission (FCC), Federal Aviation Administration (FAA), Department of Housing and Urban Development (HUD) and the General Services Administration (GSA)

M.A. Public History: Historic Preservation, Middle Tennessee State University

B.A. History, California University of Pennsylvania

6 YEARS EXPERIENCE

RECOGNITIONS

Minong, Traditional Cultural Property National Register Nomination – Agency: Grand Portage Band of Lake Superior Chippewa

Grand Portage CCC Indian Division Bridge – Agency: National Park Service and Grand Portage Band of Lake Superior Chippewa

Ashley Brown

Senior Architectural Historian

Ashley Brown is a senior architectural historian with more than six years of academic and professional experience preparing documentation to address the restoration, rehabilitation, and adaptive reuse of historic properties—including historic structures reports, preservation and interpretation plans, and National Register of Historic Places nominations. Ashley also has experience contributing to California Environmental Quality Act CEQA-level documents. She is adept at developing and implementing historic resources surveys to address architectural, building, and cemetery condition assessments utilizing such programs ArcGIS and Survey123. She has worked closely with individuals, preservation groups, Native American tribes, small and large communities, and state legislators to preserve their heritage. Ashley continues to expand her knowledge of Southern California history by conducting primary source research and developing historic contexts.

Relevant Experience

City of Pasadena

280 Avenue 64 Historic Resources Assessment, Pasadena, CA. *Project Manager and Report Author.* ESA prepared an historic resources assessment report for a single-family residence built between 1909 and 1910 as the ranch office for the San Rafael Ranch Company. In 1955, it was converted to residential use and expanded. ESA found that residence was eligible for the National and California Registers and for local designation for its historical associations for the development of Pasadena west of the Arroyo Seco, and its historical associations with the productive life of Robert H. Lindsay, ranch manager and vice president of the ranch company. ESA prepared the draft and final reports in a timely manner to support a Certificate of Appropriateness decision.

City of San Marino

3325 Monterey Road, City of San Marino, CA Historic Resources Assessment and SOI Plan Review. *Architectural Historian and Report Co-author.* 3325 Monterey Road is a Modern style residence designed by notable architectural historian Frederick Hust. The house is the only remaining early Modern style residence in the City and emulates some elements of the Prairie School. Ms. Brown evaluated the residence for listing at the federal, state, and local levels. Ms. Brown found the house eligible for its historical and architectural associations.

City of Glendale

Scholl Canyon Organics Recovery to Energy, LLC, Scholl Canyon Organics Recovery to Energy Station (SCORE) Cultural Resources Technical Report, Glendale, CA. *Cultural Resources Specialist and Report Author*. Ms. Brown wrote project specific historic context and authored the Report for the Scholl Canyon Organics Recovery to Energy Station (SCORE) Cultural Resources Survey Report. In addition, she also identified the potential for archeological resources. The Project would develop, construct, and operate an integrated resource recovery and energy conversion facility at the Scholl Canyon Landfill (SCLF) in Glendale, California. This report was completed in support of a MND.

Hanna Winzenried

Architectural Historian

EDUCATION

MSc Historic Conservation, Oxford Brookes University

BA, European Studies, Brigham Young University

2 YEARS EXPERIENCE

PROFESSIONAL AFFILIATIONS

The Society for the Protection of Ancient Buildings

Historic England

National Trust for Places of Historic Interest or Natural Beauty

Hanna is an architectural historian intern with 3 years of academic and professional experience performing building conservation, historic research, and field surveys and conducting plan reviews for conformance with local regulations and ordinances. She has 1.5 years of experience with the City of Los Angeles, Department of Planning, in the Office of Historic Resources Historic Preservation Overlay Zones (HPOZ) Unit. Her experience and education both in California and abroad have given her a wide set of interdisciplinary skills, including strong technical and research skills.

Relevant Experience

9120 W. Olympic Boulevard Preliminary Assessment and Character Defining Features Analysis for the Harkham Hillel Hebrew Academy, Beverly Hills, CA. *Contributor.* ESA prepared a Phase I Historic Resources Assessment for the modernist educational building at 9120 W. Olympic Boulevard. The purpose of the report is to identify and evaluate potential historic resources. The subject property was built in 1963 as the largest Jewish day school. It was built in the Modernist architectural style by the renowned architect Sydney Eisenshtate. The Academy enrollment has outgrown the existing space, and the school is looking for a way to expand its square footage. Hanna is performing research and assisting in the preparation of the reports.

3325 Monterey Road Historic Resources Assessment for 3325 Monterey Road, San Marino, CA. *Contributor*. ESA prepared a Historic Resources Assessment for the Moderne residence at 3325 Monterey road. The purpose of the report is to identify and evaluate potential historic resources. The subject property was built in 1927 as a retirement residence for William F. Tempel, a real estate broker from Chicago. It was designed by Frederick Hust, an architect from Salt Lake City who would go on to design the new China Town in Los Angeles. The homeowners are looking for a way to expand square footage of the residence. Hanna is performing research and assisting in the preparation of the report.

Universal Hilton Environmental Impacts Report and Historic Resources Technical Report for 555 W Universal Terrace Parkway, Los Angeles, CA. *Contributor.* ESA prepared an Environmental Impacts Report including a Historic Resources Technical Report. The Universal Hilton Hotel was designed by master architect, William L. Pereira in 1983 in the postmodern style. The hotel was designed to accommodate visitors to the Universal Theme Parks. The hotel management wants to expand the number of rooms by building a large addition. Hanna is performing research and assisting in the preparation of the report.

361 Myrtle Street Peer Review Letter for the residence at 361 Myrtle Street, Glendale, CA. *Contributor.* ESA prepared a peer review letter to conduct a peer review of previous historic resource evaluations and analyze potential cumulative impacts of the demolition for the property at 361 Myrtle Street. Previous

Appendix C
Building Permits

76A636A DBS-8
11-55

APPLICATION FOR BUILDING PERMIT

1

DIVISION OF BUILDING AND SAFETY
Department of County Engineer
County of Los Angeles
JOHN A. LAMBIE, COUNTY ENGINEER
CASSATT D. GRIFFIN, SUP'T OF BUILDING

BUILDING ADDRESS 5010 N. AZUSA CAN. RD
LOCALITY AZUSA
NEAREST CROSS ST. ARROW HIWAY
DISTRICT NO. 99-10 | GROUP F-2 | TYPE CONST. V | SEWER MAP BK PG
MAP NUMBER 2407 | STATE HWY YES NO

FOR APPLICANT TO FILL IN

BUILDING ADDRESS 5010 N. AZUSA CANYON RD.
LOT NO. IN FILE BLOCK
TRACT
SIZE OF LOT 660X526 | NO. OF BLDGS. NOW ON LOT 0
USE OF EXISTING BLDG.
OWNER GEN. TEL. CO. OF CALIF
MAIL ADDRESS 2020 SANTA MONICA BLVD
CITY SANTA MONICA TEL. NO.
ARCHITECT OR ENGINEER DANIEL, MANN, & HELDEL HALL JOHNSON DU 1-3663
ADDRESS 3325 WILSHIRE BLVD.
CONTRACTOR TEL. NO.
ADDRESS

USE ZONE A-1, B-1 & M-1
SPECIAL CONDITIONS AS PER CONDITIONS PER ZOC 2026 & REVISED PLOT PLAN PER ZOC 2026 JW O.K.

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	50'±	-	AZUSA CANYON RD	40'
SIDE P. L.				

DESCRIPTION OF WORK

NEW X ADD ALTER REPAIR DEMOLISH
SQ. FT. SIZE 14,550 40X225 | NO. OF STORIES 2 & Pent | NO. OF FAMILIES —
USE OF STRUCTURE OFFICE AND WAREHOUSE BLDG.
SIGNATURE OF APPLICANT Gene D. Smith
ADDRESS 3325 WILSHIRE BLVD.

0	TRACT DWELL. 1 UNIT	5	INDUSTRIAL
1	DWELL. 1 UNIT	6	PUBLIC BLDG. 18
2	DUPLEX 2 UNITS	7	ADDN., ALT., ETC.
3	APT. ____UNITS	8	MISCEL.
4	COMMERCIAL		

$ 290000 — VALUATION
P. C. FEE $94.50
FEE $189.00

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.
SIGNATURE OF PERMITTEE Daniel, Mann, Johnson & Mendenhall P.W. Mumaba
ADDRESS 3325 Wilshire Blvd

INSPECTION RECORD

	Conc Block
	Welding
6-26-57	CHECKED FRAME. COMPLETE FIREBL
	WALLS & STAIRS. SHEAR PANELS. RENAIL
	ADJ. TO ENTRYS 10d" @ 3"0/c. V. Richter

APPROVALS

	DATE	INSPECTOR'S SIGNATU
FOUNDATION: LOCATION FORMS, MATERIALS	3-13-57	V. Richter
FRAME: FIRE STOPS, BRACING, BOLTS	7/12/57	
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
HOUSE NUMBER CORRECT AND POSTED	12-57	
FINAL		

JOHN A. LAMBIE, COUNTY ENGINEER 705 VALIDATION CK MO CASH CLYDE N. DIRLAM, CHIEF BLDG. INSP

AC 82555 NOV 15 16 94.50 AC 43525 JAN 15 1 189.0

Schantzen Harrington

4/15/57 checked with office
Saw brace not needed as erid
B. of Dayton

4-17-57 OK SHOT BOLTS 4'OC
① INT. PARTITIONS
② FIREBLOCK DUMP
③ FIREBLICK SW STAIR.
④ FINISH CONDUIT

6/24/57 asbe per shop panel interior - Je
Not compleat of Dayton

6/26/57 ① gave OK to lath second ~~stay~~ entrance
② Sandl wall shop panels not up

6/28/57 ① Shop panel South end of
② Elect conduit in part shop ok to co
③ plumb testing clean out in bld

76A638A DBS-9
11-55

APPLICATION FOR BUILDING PERMIT

DIVISION OF BUILDING AND SAFETY
Department of County Engineer
County of Los Angeles
JOHN A. LAMBIE, COUNTY ENGINEER
CASSATT D. GRIFFIN, SUP'T OF BUILDING

BUILDING ADDRESS 5010 N. AZUSA CAN RD
LOCALITY AZUSA
NEAREST CROSS ST. ARROW HIWAY

DISTRICT NO. 99-10 | GROUP E-4 F-2 | TYPE CONST. V | SEWER BK | MAP PG

MAP NUMBER 2907 | STATE HWY YES NO

USE ZONE A-1, B-1 & M-1 | SPECIAL CONDITIONS As per Conditions per ZEC 2026 & Revised Plot Plan per ZEC 2026 I.W. O.K.

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	50'	-	Azusa Canyon Rd.	40'
SIDE P. L.				

0	TRACT DWELL.	1 UNIT	5	INDUSTRIAL	
1	DWELL.	1 UNIT	6	PUBLIC BLDG.	18
2	DUPLEX	2 UNITS	7	ADDN., ALT., ETC.	
3	APT.	____UNITS	8	MISCEL.	
4	COMMERCIAL				

FOR APPLICANT TO FILL IN

BUILDING ADDRESS 5010 N. Azusa Canyon Rd
LOT NO. IN FILE . BLOCK
TRACT
SIZE OF LOT 660X526 | NO. OF BLDGS. NOW ON LOT 0
USE OF EXISTING BLDG.

OWNER GEN'L. TEL. CO. OF CALIF.
MAIL ADDRESS 2020 Santa Monica Blvd.
CITY Santa Monica TEL. NO.
ARCHITECT OR ENGINEER Mann, Mann & Mendenhall TEL. NO. DU 13663
ADDRESS 3325 Wilshire Blvd
CONTRACTOR TEL. NO.
ADDRESS

DESCRIPTION OF WORK

NEW X ADD ALTER REPAIR DEMOLISH
SQ. FT. SIZE 40X225 | NO. OF STORIES 1 | NO. OF FAMILIES —
USE OF STRUCTURE VEHICLE SERVICE BLDG.

SIGNATURE OF APPLICANT Lucien D. Smith
ADDRESS 3325 WILSHIRE BLVD.

$ 60,000 VALUATION

P. C. $ 37.00 FEE
$ 74.00 FEE

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.

SIGNATURE OF PERMITTEE Daniel, Mann Johnson & Mendenhall
Per Pat Manuelle
ADDRESS 3325 Wilshire Blvd

INSPECTION RECORD

Cont.	Conc. Block	
Insp	Welding	
	High Strength Bolts	
2-14-57	Footings & steel in North Wall O.K.	J. Richardson
	APPROVALS	

	DATE	INSPECTOR'S SIGNATURE
FOUNDATION: LOCATION FORMS, MATERIALS	2-25-57	J. Richardson
FRAME: FIRE STOPS, BRACING, BOLTS	5/27/57	
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.	6/26/57	
LATH, EXT.	6/24/57	
HOUSE NUMBER CORRECT AND POSTED		
FINAL	11/12/57	

JOHN A. LAMBIE, COUNTY ENGINEER

VALIDATION
CK MO CASH

CLYDE N. DIRLAM, CHIEF BLDG. INSPECTOR

AC 82548 NOV 15 16 37.00 M 43535 JAN 15 1 74.00

Schantzen

Hernandez

6/26/57 – Noticed holes in west end of Dam

76A638A DBS-3
11-55

APPLICATION FOR BUILDING PERMIT

1

DIVISION OF BUILDING AND SAFETY
Department of County Engineer
County of Los Angeles
JOHN A. LAMBIE, COUNTY ENGINEER
CASSATT D. GRIFFIN, SUP'T OF BUILDING

BUILDING ADDRESS 5010 No. AZUSA CAN. RD
LOCALITY AZUSA
NEAREST CROSS ST. ARROW HWAY
DISTRICT NO. 59-70 | GROUP Retaining Wall | TYPE CONST. V | SEWER MAP BK PG
MAP NUMBER 2407 | STATE HWY YES (NO)
USE ZONE (M-1) - B-1 & A-1 | SPECIAL CONDITIONS As Per Plot Plan Sec 2026 IND. W. OK

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	20'	60'	℄ Azusa Canyon Rd.	40'
SIDE P. L.				

0	TRACT DWELL.	1 UNIT	(5)	INDUSTRIAL	
1	DWELL.	1 UNIT	6	PUBLIC BLDG.	
2	DUPLEX	2 UNITS	7	ADDN., ALT., ETC.	69
3	APT.	____UNITS	8	MISCEL.	
4	COMMERCIAL				

FOR APPLICANT TO FILL IN

BUILDING ADDRESS 5010 N. Azusa Canyon Rd.
LOT NO. IN FILE BLOCK
TRACT
SIZE OF LOT 526x661 | NO. OF BLDGS. NOW ON LOT 0
USE OF EXISTING BLDG. —
OWNER GEN. TEL. CO. OF CALIF.
MAIL ADDRESS 2020 SANTA MONICA BLVD.
CITY SANTA MONICA TEL. NO. EX4-0211
ARCHITECT OR ENGINEER DANIEL, MANN, JOHNSON, & MENDENH. TEL. NO. DU1-3663
ADDRESS 3325 WILSHIRE BLVD
CONTRACTOR TEL. NO.
ADDRESS

DESCRIPTION OF WORK

(NEW) ADD ALTER REPAIR DEMOLISH
SQ. FT. SIZE 250 NO. OF STORIES 0 NO. OF FAMILIES 0
USE OF STRUCTURE (SALES PIT)
SIGNATURE OF APPLICANT Gene D. Smith
ADDRESS 3325 WILSHIRE BLVD.

$ 200 VALUATION
P. C. $ no fee FEE
$ 2.00 FEE

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.
SIGNATURE OF PERMITTEE Daniel, Mann, Johnson & Mendenhall
Per Pwmpunneke
ADDRESS 3325 Wilshire Blvd

INSPECTION RECORD

	APPROVALS	DATE	INSPECTOR'S SIGNA
	FOUNDATION: LOCATION FORMS, MATERIALS	5/27/57	
	FRAME: FIRE STOPS, BRACING, BOLTS		
	FURNACE: LOCATION, GAS VENT, DUCTS		
	LATH, INT.		
	LATH, EXT.		
	HOUSE NUMBER CORRECT AND POSTED		
	FINAL	11/12/57	

JOHN A. LAMBIE, COUNTY ENGINEER 105 VALIDATION CK MO CASH CLYDE N. DIRLAM, CHIEF BLDG. IN

Co 8455 DEC 380 43566 JAN 15 1 2.0

76A638A DBS-3
11-55

APPLICATION FOR BUILDING PERMIT

1

DIVISION OF BUILDING AND SAFETY
Department of County Engineer
County of Los Angeles
JOHN A. LAMBIE, COUNTY ENGINEER
CASSATT D. GRIFFIN, SUP'T OF BUILDING

BUILDING ADDRESS: 5010 N. AZUSA CAN. RD.
LOCALITY: AZUSA
NEAREST CROSS ST.: ARROW HIWAY
DISTRICT NO.: 99-10 | GROUP: F-2 | TYPE CONST.: IV | SEWER MAP BK PG:
MAP NUMBER: 2407 | STATE HWY: YES (NO)
USE ZONE: (A-1) -B-1 & M-1 | SPECIAL CONDITIONS: As Per Plot Plan
ZEC 2021

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	20'	60'±	AZUSA CANYON RD.	40'
SIDE P. L.				

FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 5010 N. AZUSA CANYON RD.
LOT NO.: IN FILE | BLOCK:
TRACT:
SIZE OF LOT: 526X661 | NO. OF BLDGS. NOW ON LOT: 0
USE OF EXISTING BLDG.:
OWNER: GEN TEL CO. OF CALIF
MAIL ADDRESS: 2020 SANTA MONICA BLVD.
CITY: SANTA MONICA | TEL. NO.: EX4-0211
ARCHITECT OR ENGINEER: DANIEL, MANN, JOHNSON, & MENDENHALL | TEL. NO.: DU1-3663
ADDRESS: 3325 WILSHIRE BLVD.
CONTRACTOR: | TEL. NO.:
ADDRESS:

DESCRIPTION OF WORK

(NEW) ADD ALTER REPAIR DEMOLISH
SQ. FT. SIZE: 250 | NO. OF STORIES: 1 | NO. OF FAMILIES: 0
USE OF STRUCTURE: GASOLINE PUMP CANOPY
SIGNATURE OF APPLICANT: Gene D. Smith
ADDRESS: 3325 WILSHIRE BLVD.

0 TRACT DWELL.	1 UNIT
1 DWELL.	1 UNIT
2 DUPLEX	2 UNITS
3 APT.	____ UNITS
4 COMMERCIAL	
(5) INDUSTRIAL	
6 PUBLIC BLDG.	
7 ADDN., ALT., ETC.	18
8 MISCEL.	

$ VALUATION: 750
P. C. $ FEE: Maybe
$ FEE: 6 00

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. Daniel, Mann Johnson & Mendenhall
SIGNATURE OF PERMITTEE: Per PW Permit
ADDRESS: 3325 Wilshire Blvd

INSPECTION RECORD

	Welding	
	APPROVALS	

	DATE	INSPECTOR'S SIGNATURE
FOUNDATION: LOCATION FORMS, MATERIALS	5/27/57	J. Dunn
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
HOUSE NUMBER CORRECT AND POSTED		
FINAL	11/12/57	

JOHN A. LAMBIE, COUNTY ENGINEER 205 VALIDATION CK MO CASH CLYDE N. DIRLAM, CHIEF BLDG. INSPEC

AC 845628 DEC 380 AC 435565 JAN 15 1 6.00

Stein Harvin

APPLICATION FOR ELECTRIC PERMIT 1

76A65BA DBS-3
11-55

APPLICATION FOR BUILDING PERMIT 1

DIVISION OF BUILDING AND SAFETY
Department of County Engineer
County of Los Angeles
JOHN A. LAMBIE, COUNTY ENGINEER
CASSATT D. GRIFFIN, SUP'T OF BUILDING

BUILDING ADDRESS 5010 N. AZUSA CAN. RD
LOCALITY AZUSA.
NEAREST CROSS ST. ARROW HIWAY
DISTRICT NO. 99-10 | GROUP F-2 | TYPE CONST. V | SEWER BK | MAP PG
MAP NUMBER 2407 | STATE HWY YES (NO)
USE ZONE A1-B1 (M1) | SPECIAL CONDITIONS As Per Plot Plan
Sec 2026 I.W. OK.

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	20'	60'	Azusa Canyon Rd	40'
SIDE P. L.				

FOR APPLICANT TO FILL IN

BUILDING ADDRESS 5010 N. AZUSA CANYON RD.
LOT NO. IN FILE BLOCK
TRACT
SIZE OF LOT 526 X 661 | NO. OF BLDGS. NOW ON LOT 0
USE OF EXISTING BLDG. —

OWNER GEN. TEL. CO. OF CALIF.
MAIL ADDRESS 2020 SANTA MONICA BLVD.
CITY SANTA MONICA TEL. NO. EX4-0211
ARCHITECT OR ENGINEER DANIEL, MANN, JOHNSON & MENDENHALL TEL. NO. DU1-3663
ADDRESS 3325 WILSHIRE BLVD.
CONTRACTOR TEL. NO.
ADDRESS

DESCRIPTION OF WORK

(NEW) ADD ALTER REPAIR DEMOLISH
SQ. FT. SIZE 700 NO. OF STORIES 1 NO. OF FAMILIES 0
USE OF STRUCTURE SALVAGE SHED (JUNK BINS)
SIGNATURE OF APPLICANT Gene D. Smith
ADDRESS 3325 WILSHIRE BLVD.

0	TRACT DWELL.	1 UNIT	
1	DWELL.	1 UNIT	
2	DUPLEX	2 UNITS	
3	APT.	____ UNITS	
4	COMMERCIAL		
(5)	INDUSTRIAL		
6	PUBLIC BLDG.		
7	ADDN., ALT., ETC.		18
8	MISCEL.		

$ 1000 VALUATION
P. C. $ 11.85 FEE
$ 6.00 FEE

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. Daniel, Mann Johnson & Mendenhall
SIGNATURE OF PERMITTEE By [illegible]
ADDRESS 3325 Wilshire Blvd

INSPECTION RECORD

	DATE	INSPECTOR'S SIGNATURE
APPROVALS		
FOUNDATION: LOCATION FORMS, MATERIALS	3/27/57	J Dean
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
HOUSE NUMBER CORRECT AND POSTED	11/12/57	Rost
FINAL		

JOHN A. LAMBIE, COUNTY ENGINEER 195 VALIDATION CK MO CASH CLYDE N. DIRLAM, CHIEF BLDG. INSPECTOR

4Co 8458 DEC 380 1 4354 JAN 15 1 6.00

Glen Hewitt

CITY OF IRWINDALE

1

7EA638A CE #803 2-63

APPLICATION FOR BUILDING PERMIT

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, COUNTY ENGINEER
WILLIAM A. JENSEN, SUP'T OF BUILDING

FOR APPLICANT TO FILL IN

BUILDING ADDRESS 5010 N. AZUSA CYN RD
LOT NO. S.W. ¼ OF N.W. ¼ OF SECTION 8 T. 1 S., R. 10 W. S.B.B.M. EXCEPT E. 40' BLOCK
TRACT ~~E~~ WEST 40' THEREOF
SIZE OF LOT 660.11 X 525.75 NO. OF BLDGS. NOW ON LOT 4
USE OF EXISTING BLDG. STORAGE & VEHICLE REPAIR
OWNER GENERAL TEL COOF CALIF TEL. NO. 213 451-6903
ADDRESS 2020 SANTA MONICA BLVD SANTA MONICA CA
ARCHITECT OR ENGINEER OWNER TEL. NO. 213 451-6903
ADDRESS 2020 SANTA MONICA BLVD SANTA MONICA
CONTRACTOR TEL. NO.
ADDRESS

DESCRIPTION OF WORK

(NEW) (ADD) ALTER REPAIR DEMOLISH
SQ. FT. SIZE 435 ft NO. OF STORIES 1 NO. OF FAMILIES 0
USE OF STRUCTURE TEL. EQUIP. STORAGE & VEHICLE ACCESSORIES
SIGNATURE OF APPLICANT Thomas E. Darlington
VALUATION $ 7000

P.C. FEE $ 5.75
PMT. FEE $ 11.50

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF PERMITTEE Kaw Corp by A. Spector
ADDRESS 4934 N. Walnut Ave San Gabriel

BUILDING ADDRESS 5010 N. AZUSA CYN RD
LOCALITY IRWINDALE
NEAREST CROSS ST. ARROW HWY
DISTRICT NO. 5,06 GROUP F-1 TYPE CONST. PROCESSED BY Coster
STATISTICAL CLASSIFICATION CLASS. NO. 9 DWELL. UNITS
SEWER MAP BK PG
WATER CERTIFICATE: NOT REQUIRED ☐ RECEIVED ☐
MAP NO. 2407 HIGHWAY (CIRCLE) STATE MAJOR SECOND (LOCAL)
USE ZONE A-1 B-1 (M-1) SPECIAL CONDITIONS ZEC 2026

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	20	60'	℄ Azusa Canyon	40'
SIDE P. L.				

8-13-64 First Inspection
8-20-64 Roof Nailing OK Coster

INSPECTOR COPY

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION: LOCATION FORMS, MATERIALS	8-6-64	Coster
FRAME: FIRE STOPS, BRACING, BOLTS	9-10-64	Coster
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
HOUSE NUMBER CORRECT AND POSTED	9-10-64	Coster
FINAL		

JOHN F. LEWIS, PRINCIPAL STRUCTURAL ENGINEER

PERMIT VALIDATION (CK.) M.O. CASH

PLAN CHECK VALIDATION CK. M.O. CASH

30973 APR2323 5.75 A 931395 JUL27 1 11.50

LEGAL DESCRIPTION OF LAND OCCUPIED
by
COVINA STOREROOM & YARD FACILITIES
for
GENERAL TELEPHONE CO. OF CALIFORNIA
at
5010 NORTH AZUSA CANYON ROAD

The S. W. 1/4 of the N. W. 1/4 of Sect. 9, T. 1 S., R. 10 W., S. B. B. & M. (Except the East 100' and the West 40' thereof) in the County of Los Angeles, State of California.

78A638A DBS 4
11-55

APPLICATION FOR BUILDING PERMIT

1

DIVISION OF BUILDING AND SAFETY
Department of County Engineer
County of Los Angeles
JOHN A. LAMBIE, COUNTY ENGINEER
CASSATT D. GRIFFIN, SUP'T OF BUILDING

BUILDING ADDRESS
LOCALITY
NEAREST CROSS ST.
DISTRICT NO. 09-10 | GROUP | TYPE CONST. | SEWER MAP BK PG
MAP NUMBER 2407 | STATE HWY YES (NO)
USE ZONE A-1, B-1 & (M-1) | SPECIAL CONDITIONS As Per Plot Plan
Sec 2026

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	20'	60'	& Azusa Canyon Rd	40'
SIDE P. L.				

FOR APPLICANT TO FILL IN

BUILDING ADDRESS 5010 N. Azusa Canyon Rd
LOT NO. BLOCK
TRACT
SIZE OF LOT 526x661 | NO. OF BLDGS. NOW ON LOT 0
USE OF EXISTING BLDG.
OWNER GEN. TEL. CO. OF CALIF.
MAIL ADDRESS 2020 Santa Monica Blvd
CITY Santa Monica TEL. NO. EX4-0211
ARCHITECT OR ENGINEER DANIEL, MANN, JOHNSON & MENDENHALL TEL. NO. DU 1-3663
ADDRESS 3325 Wilshire Blvd.
CONTRACTOR TEL. NO.
ADDRESS

DESCRIPTION OF WORK

(NEW) ADD ALTER REPAIR DEMOLISH
SQ. FT. SIZE 40 | NO. OF STORIES | NO. OF FAMILIES
USE OF STRUCTURE (LIQUID GAS STORAGE SHELTER)
SIGNATURE OF APPLICANT Rene D. Smith
ADDRESS 3325 Wilshire Blvd.

0	TRACT DWELL. 1 UNIT
1	DWELL. 1 UNIT
2	DUPLEX 2 UNITS
3	APT. ____ UNITS
4	COMMERCIAL
5	INDUSTRIAL
6	PUBLIC BLDG.
7	ADDN., ALT., ETC.
8	MISCEL.

$ 200 VALUATION
P. C. $ FEE
$ FEE

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.

SIGNATURE OF PERMITTEE
ADDRESS

INSPECTION RECORD

Approved R.D.B.

APPROVALS

	DATE	INSPECTOR'S SIGNATURE
FOUNDATION: LOCATION FORMS, MATERIALS		
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
HOUSE NUMBER CORRECT AND POSTED		
FINAL		

JOHN A. LAMBIE, COUNTY ENGINEER

VALIDATION
CK MO CASH

CLYDE N. DIRLAM, CHIEF BLDG. INSPECTOR

LACo 8457 DEC 380

Stein

76A638A DLB-8
11-55

APPLICATION FOR BUILDING PERMIT

1

DIVISION OF BUILDING AND SAFETY
Department of County Engineer
County of Los Angeles
JOHN A. LAMBIE, COUNTY ENGINEER
CASSATT D. GRIFFIN, SUP'T OF BUILDING

BUILDING ADDRESS
LOCALITY
NEAREST CROSS ST.

DISTRICT NO.	GROUP	TYPE CONST.	SEWER BK	SEWER PG	MAP
99-10	G	IV			

MAP NUMBER 2407 STATE HWY YES (NO)

USE ZONE (M-D-B-1 & A-1) SPECIAL CONDITIONS As Per Plot Plan Sec 2026

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	20'	60'	& Azusa Canyon Rd	40'
SIDE P. L.				

FOR APPLICANT TO FILL IN

BUILDING ADDRESS 5010 N. Azusa Canyon Rd
LOT NO. BLOCK
TRACT
SIZE OF LOT 526x661 NO. OF BLDGS. NOW ON LOT 0
USE OF EXISTING BLDG. —

OWNER GEN. TEL. CO. OF CALIF.
MAIL ADDRESS 2020 Santa Monica Blvd.
CITY Santa Monica TEL. NO. EX4-0211
ARCHITECT OR ENGINEER Daniel, Mann, Johnson & Mendenhall TEL. NO. DU1-3663
ADDRESS 3325 Wilshire Blvd.
CONTRACTOR TEL. NO.
ADDRESS

DESCRIPTION OF WORK

(NEW) ADD ALTER REPAIR DEMOLISH
SQ. FT. SIZE 100 NO. OF STORIES 1 NO. OF FAMILIES 0
USE OF STRUCTURE Tool Shed

SIGNATURE OF APPLICANT Gene D. Smith
ADDRESS 3325 Wilshire Blvd.

$ 1000 VALUATION	P. C. FEE Noted	$ FEE	

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.

SIGNATURE OF PERMITTEE
ADDRESS

0	TRACT DWELL.	1 UNIT
1	DWELL.	1 UNIT
2	DUPLEX	2 UNITS
3	APT.	___ UNITS
4	COMMERCIAL	
5	INDUSTRIAL	
6	PUBLIC BLDG.	
7	ADDN., ALT., ETC.	
8	MISCEL.	

INSPECTION RECORD

Addn R & Dietsch

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION: LOCATION FORMS, MATERIALS		
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
HOUSE NUMBER CORRECT AND POSTED		
FINAL		

JOHN A. LAMBIE, COUNTY ENGINEER

VALIDATION
CK MO CASH

CLYDE N. DIRLAM, CHIEF BLDG. INSPECT

LACo 8459 DEC 380

Stein

76A638A CE #803 - 7-56

APPLICATION FOR BUILDING PERMIT

1

BUILDING AND SAFETY DIVISION
Department of County Engineer
County of Los Angeles
JOHN A. LAMBIE, COUNTY ENGINEER
CASSATT D. GRIFFIN, SUP'T OF BUILDING

BUILDING ADDRESS 5010 N. AZUSA CANYON RD
LOCALITY AZUSA
NEAREST CROSS ST. ARROW HIGHWAY
DISTRICT NO. 10 | GROUP G | TYPE CONST. V | SEWER BK | MAP PG

FOR APPLICANT TO FILL IN

BUILDING ADDRESS 5010 N. AZUSA CANYON RD
LOT NO. IN FILE BLOCK
TRACT
SIZE OF LOT 660X526 NO. OF BLDGS. NOW ON LOT 4
USE OF EXISTING BLDG.

OWNER GEN. TEL. CO. OF CALIF
MAIL ADDRESS 2020 SANTA MONICA BLVD.
CITY SANTA MONICA TEL. NO.
ARCHITECT OR ENGINEER DANIEL, MANN, JOHNSON & MENDENHALL TEL. NO. DU-13663
ADDRESS 3325 WILSHIRE BLVD.
CONTRACTOR MACISAAC & MENKE TEL. NO. AN-89261
ADDRESS 3440 E. 14TH ST. - L.A. 23

DESCRIPTION OF WORK

NEW ✓ ADD ALTER REPAIR DEMOLISH
SQ. FT. SIZE 26 X 12 = 312 NO. OF STORIES 1 NO. OF FAMILIES 0
USE OF STRUCTURE TOOL SHED

SIGNATURE OF APPLICANT C. A. Menke
ADDRESS

$ 1600.00 VALUATION

P. C. $ — FEE
$ 6.00 FEE

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.

SIGNATURE OF PERMITTEE C. A. Menke
ADDRESS 3440 E. 14TH ST. L.A. 23

JOHN A. LAMBIE, COUNTY ENGINEER.

PLAN CHECK VALIDATION CK. M.O. CASH

STATISTICAL CLASSIFICATION CLASS. NO. 16	DWELL. UNITS —
MAP NUMBER 2907	STATE HWY YES NO
USE ZONE M1	SPECIAL CONDITIONS

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	50'	℄	AZUSA CAN. RD	40'
SIDE P. L.				

INSPECTION RECORD

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION: LOCATION FORMS, MATERIALS	5/27/57	Douglas
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
HOUSE NUMBER CORRECT AND POSTED		
FINAL	11/12/57	

CLYDE N. DIRLAM, PRINCIPAL STRUCTURAL ENGINEER

PERMIT VALIDATION CK M.O. CASH

6695 JUL 13 80 8780 JUL 17 1 6.00 P

Harrison A

76A638A CE #803 - 7-56

APPLICATION FOR BUILDING PERMIT

1

BUILDING AND SAFETY DIVISION
Department of County Engineer
County of Los Angeles
JOHN A. LAMBIE, COUNTY ENGINEER
CASSATT D. GRIFFIN, SUP'T OF BUILDING

BUILDING ADDRESS 5010 N AZUSA CANYON RD
LOCALITY AZUSA
NEAREST CROSS ST. ARROW HIGHWAY
DISTRICT NO. 10 | GROUP G | TYPE CONST. V | SEWER BK | MAP PG

FOR APPLICANT TO FILL IN

BUILDING ADDRESS 5010 N. AZUSA CANYON RD
LOT NO. IN FILE BLOCK
TRACT
SIZE OF LOT 660X526 | NO. OF BLDGS. NOW ON LOT 4
USE OF EXISTING BLDG.

OWNER GEN. TEL. CO. OF CALIF
MAIL ADDRESS 2020 SANTA MONICA BLVD.
CITY SANTA MONICA TEL. NO.
ARCHITECT OR ENGINEER DANIEL, MANN, JOHNSON & MENDENHALL TEL. NO. RY-13663
ADDRESS 3325 WILSHIRE BLVD.
CONTRACTOR MACISAAC & MENKE TEL. NO. AN-89261
ADDRESS 3440 E. 14TH ST. - L.A. 23

DESCRIPTION OF WORK

NEW ✓ ADD ALTER REPAIR DEMOLISH
SQ. FT. SIZE 26 X 12 | NO. OF STORIES 1 | NO. OF FAMILIES 0
USE OF STRUCTURE TOOL SHED

SIGNATURE OF APPLICANT C. A. Menke
ADDRESS

$ 1600.00 VALUATION

P. C. $ — FEE
$ 6.00 FEE

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.
SIGNATURE OF PERMITTEE C. A. Menke
ADDRESS 3440 E. 14TH ST. L.A. 23

BUILDING ADDRESS 5010 N AZUSA CANYON RD
LOCALITY AZUSA
NEAREST CROSS ST. ARROW HIGHWAY
DISTRICT NO. 10 | GROUP G | TYPE CONST. V | SEWER BK | MAP PG

STATISTICAL CLASSIFICATION
CLASS. NO. 16 DWELL. UNITS —
MAP NUMBER 2907 STATE HWY YES NO
USE ZONE M1 SPECIAL CONDITIONS

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	50'	℄	AZUSA CAN. RD	40'
SIDE P. L.				

INSPECTION RECORD

APPROVALS

	DATE	INSPECTOR'S SIGNATURE
FOUNDATION: LOCATION FORMS, MATERIALS	5/27/57	Douglas
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
HOUSE NUMBER CORRECT AND POSTED		
FINAL	11/12/57	

JOHN A. LAMBIE, COUNTY ENGINEER.
PLAN CHECK VALIDATION CK. M.O. CASH

CLYDE N. DIRLAM, PRINCIPAL STRUCTURAL ENGINEER
PERMIT VALIDATION CK M.O. CASH

86695 JUL 1380 | 87805 JUL 17 1 6.00

Laurents

RAYMOND G. OSBORNE

TESTING LABORATORIES, INC.

235 West 27th St. LOS ANGELES 15 Richmond 9-3111

DESIGN OF CONCRETE

Job Identification GENERAL TELEPHONE CO., CENTRAL OFFICE ADDITION, BALDWIN PARK

Architect A. C. Martin & Associates

Structural Engineer

General Contractor Ford J. Twaits Corporation

Concrete by SAN GABRIEL READY MIX COMPANY, EL MONTE PLANT

Date January 15, 1957

Specifications requirements: 2500 lbs and 3000 lbs concrete at 28 days

Mix Use - 371-1, FOUNDATIONS 371-2, WALLS, BEAMS, COLS. & SUSPENDED SLABS
371-3, SLABS ON GRADE

PROPORTIONS RECOMMENDED

Quantities Per Cu. Yd. (Agg. sat. surf. dry)

Mix No.	OT 371-1 3000# 1½"	OT 371-2 3000# 1"	OT 371-3 2500# 1"
Cement - Sks/cu. yd.	5.75	5.60	5.63
Cement - Lbs.	541	526	529
Sand, Lbs.	1240	1314	1322
No. 4 Gravel, Lbs.			
No. 3 Gravel, Lbs.	1108	1891	1903
No. 2 Gravel, Lbs.	912		
Water, Lbs.	287	266	304
Total Weight	4088	3997	4058
Water, gal.	34.5	31.9	36.5
Water, gal./Sk.	6.00	5.70	6.48
Slump, calculated	3"	4½"	3"
Admixture	None	Pozzolith 3A .25#/sk	R/L Suconem 1 gal/yd
Max. Water allowable	35.9	33.6	38.0

COMBINED GRADING

Sieve	% Pass.	Spec.
100	2.1	0-3
50	7.3	2-8
30	17.3	10-20
16	22.5	16-30
8	30.1	22-35
4	36.8	30-40
3/8	44.4	40-55
3/4	64.5	55-77
1	76.8	75-90
1½	99.7	95-100
100	2.3	0-3
50	7.8	2-10
30	18.7	10-23
16	24.3	17-35
8	32.5	23-40
4	40.4	31-47
3/8	51.9	45-65
3/4	85.7	70-90
1	99.3	90-10

REMARKS: 1 - General Telephone Co. 2 - A. C. Martin & Associates 1 - Office
1 - Ford J. Twaits Corp. 1 - Chas. Ensco, Job Supt.
1 - San Dimas District 1 - San Gabriel Ready Mix

JB

Respectfully submitted,

RAYMOND G. OSBORNE By

TESTING OF MATERIALS
GENERAL
PHYSICAL - CHEMICAL
CEMENT - STEEL - OIL
ASPHALT - CLAY
SOIL INVESTIGATIONS
ROAD AND BUILDING
FOUNDATIONS
BEARING, COMPACTION
AND SHEAR TESTS

RAYMOND G. OSBORNE
LABORATORIES, INC.
TESTING AND INSPECTION ENGINEERS

OFFICE AND LABORATORIES
235 WEST 27TH STREET
PHONE RICHMOND 9-3111
INSPECTION AND TESTING
STRUCTURAL STEEL
SHOP AND FIELD
RIVETING - WELDING
PIPE INSPECTION
STEEL, CONCRETE AND CLAY
EASTERN REPRESENTATION

LOS ANGELES 7 January 15, 1957

REPORT ON TESTS OF CONCRETE AGGREGATES

Job Identification: GENERAL TELEPHONE CO.
CENTRAL OFFICE ADDITION
BALDWIN PARK, CALIFORNIA

Architects: A. C. Martin & Associates

Contractor: Ford J. Twaits Corp.

Aggregates: Sampled by laboratory representative 1/15/57 at San Gabriel Ready Mix. Century Rock

Laboratory Number: 12069

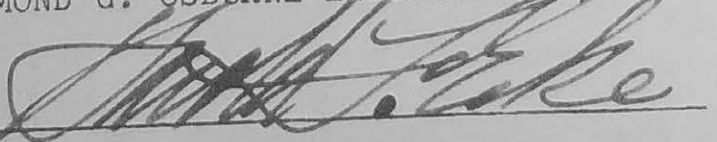
SIEVE ANALYSIS Sieve Size	W/C Sand	Spec.	1"	Spec.	SCRP SPECS. 1½"	Spec.
No. 200	2.3					
100	5.6	2-8				
50	19.1	10-22				
30	45.6	30-50				
16	59.3	45-75				
8	79.2	65-90				
4	94.0	90-100	3.3	0-5	0.9	
3/8			18.4*	0-15	1.6	0-5
1/2			38.3		1.8	
3/4			75.8	60-80	2.5	0-15
1"			98.8	90-100	18.7	5-40
1½"			100.0	100	99.1	90-100
2					100.0	100
Fineness Modulus	2.97		7.03		7.96	

*For compliance see combined grading.

SPECIFIC GRAVITY 2.65 2.66 2.68

INJ. ORGANIC IMP. Absent

Respectfully submitted,
RAYMOND G. OSBORNE LABORATORIES, INC.

By 

j6

REPORT OF COMPRESSION TEST OF CONCRETE CYLINDERS

O.K. V. Richards

California TESTING LABORATORIES, Inc.

CHEMISTS AND ENGINEERS

619 EAST WASHINGTON BOULEVARD • LOS ANGELES 15, CALIFORNIA • RICHMOND 7-4235

Vera & Pete

Date May 7, 1957
May 28, 1957

Structure: General Telephone Co. Covina Storeroom & Yard Facilities
Location: 5010 North Azusa Canyon Road, Baldwin Park
Owner: General Telephone Co. Engineer: Daniel, Mann, Johnson & Mendenhall
Architect: Daniel, Mann, Johnson & Mendenhall Contractor: McIsaac & Menke

Mix	1:2½:3½	
Cement used		
Sand used		
Rock used	Graham Bros.	
Admixture	Red Label Suconem 4/5 Qt. p.s.	
Time in Mixer	30 Min.	
Water		
Made by	CTL	
Date made	4-30-57	
Delivered by	CTL	
Date received	5-1-57	
Design Strength, 28 days, P.S.I.	2000	
Laboratory No.	65625-1	65625-2
Mark on Cylinder	GT 1	GT 2
Location in Structure	Building A - Ground Struts Building B. Floor Slab and South Wall	Ground struts between Lines 11 and 14.
Age when crushed	7 days	28 days
Slump	4½"	4½"
Compressive Strength, lbs./sq. in.	1980	2660
Maximum Load, lbs.	52640	70280
Compression area, sq. in.	26.60	26.42

Remarks:

1c Daniel, Mann, Johnson & Mendenhall
2c McIsaac & Menke Co.
1c Building Dept., San Dimas
1c General Telephone Co.

Respectfully submitted,
CALIFORNIA TESTING LABORATORIES, INC.
R J Gutierrez

5010 N. Azusa Canyon Rd.

LABORATORY CERTIFICA

California TESTING LABORATORIES

619 EAST WASHINGTON BOULEVARD • LOS ANGELES 15, CALIFORNIA •

DATE, June 24, 1957

Laboratory No. 67061

Sample Field Welding Inspection

Received 6/18/57

Submitted By GENERAL TELEPHONE COMPANY
2020 Santa Monica Boulevard
Santa Monica, California
Attention: Harold Hagen

Marked – General Telephone Company
Covina Storeroom & Yard Facilities
5010 North Azusa Canyon Road
Baldwin Park, California

R E P O R T

Fabricator or Erector: Grano Steel Corporation

Architect & Engineer: Daniel, Mann, Johnson & Mendenhall

Name and Number of Certified Welder: Louis Juarez #A669

Type of Work Inspected: Field Welding

Name of Members Inspected: Canopy connections to columns on South side of building A. Nine points. All work in accordance with approved plans and Los Angeles County Building Code.
Inspector: Paul F. Spencer

Status of Inspection: Complete

Respectfully submitted,

CALIFORNIA TESTING LABORATORIES, INC.

P. F. Spencer

Report No. 68

1c Daniel, Mann, Johnson & Mendenhall
2c McIsaac & Menke Company
1c Los Angeles County Building Department - San Dimas
1c General Telephone Company - Harold Hagen
1c Grano Steel Corporation

FOR OUR MUTUAL PROTECTION, THE USE OF THIS REPORT, COMPLETE OR IN PART, FOR ADVERTISING OR PUBLICITY MUST RECEIVE OUR WRITTEN APPROVAL. THIS REPORT DOES NOT IMPLY GENERAL APPROVAL BUT APPLIES ONLY TO THE INVESTIGATION REPORTED.

LABORATORY CERTIFICATE

California TESTING LABORATORIES, Inc.

CHEMISTS AND ENGINEERS

619 EAST WASHINGTON BOULEVARD • LOS ANGELES 15, CALIFORNIA • RICHMOND 7-4235

DATE, April 8, 1957

Laboratory No. 64854

Sample Soil

Received March 26, 1957

Submitted By GENERAL TELEPHONE COMPANY
2020 Santa Monica Blvd.
Santa Monica, California

Marked GENERAL TELEPHONE CO. COVINA
STOREROOM & YARD FACILITIES
5010 North Azusa Canyon Road
Baldwin Park, California

Attn: Harold Hagen

REPORT

We have conducted additional soil compaction tests at the subject job with results as tabulated below.

Sample No.	Dry Density Lbs/cu.ft.	Moisture, %	% Max. Density	Remarks
12	107.5	8.8	92.4	
13	115.0	9.0	98.8	
14	105.8	10.0	90.9	
15	113.0	10.2	97.1	
16	112.2	10.1	96.4	
17	106.0	7.0	91.1	
18	111.0	7.7	95.4	
19	113.0	8.5	97.1	

The approximate location of the tests is shown in the attached sketch.

Compaction results based on a maximum dry density of 116.4 lbs. per cu.ft. as obtained by the modified AASHO Method of test for maximum density and previously reported.

Respectfully submitted,

CALIFORNIA TESTING LABORATORIES, INC.

P. F. Spencer

1c Daniel, Mann, Johnson & Mendenhall
2c Meisaac & Menke Co.
1c Building Dept. L.A.Co. San Dimas
1c General Telephone Co.

Report No. 47

FOR OUR MUTUAL PROTECTION, THE USE OF THIS REPORT, COMPLETE OR IN PART, FOR ADVERTISING OR PUBLICITY MUST RECEIVE OUR WRITTEN APPROVAL. THIS REPORT DOES NOT IMPLY GENERAL APPROVAL BUT APPLIES ONLY TO THE INVESTIGATION REPORTED.

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUILDING AND SAFETY / LAND DEVELOPMENT

CITY OF IRWINDALE
5050 IRWINDALE
IRWINDALE CA 91706
PHONE: (626) 430-2205 EXT:

0506

BUILDING PERMIT
SIGN
BL 0506 1604130071

LEGAL ID:
ON FILE

ASSESSOR INFORMATION NUMBER:
8417-025-800

TENANT:
FRONTIER COMMUNICATIONS INC

OWNER: TEL. NO:
FRONTIER COMMUNICATIONS INC
401 MERRITT 7
NORWALK CT 06851

APPLICANT: TEL. NO:
COMER, WILLIAM (949) 209-8716-
80 PELICAN CT
NEWPORT BEACH 92660

CONTRACTOR: TEL. NO:
ALL CALIFORNIA SIGNS (949) 209-8716-
80 PELICAN COURT LIC. NO
NEWPORT BEACH CA 92660 636326

ARCHITECT OR ENGINEER: TEL. NO:
-
LIC. NO:

MAP NO: SEWER MAP BOOK: PAGE: FIRE ZONE: CMP:
00

NO. OF FAMILIES: DWELLING UNITS: APT/COND: STAT CLASS:
NO 20

AIR QUALITY:	SCHOOL WITHIN 1000 FEET	HAZARDOUS MATERIALS
NO	NO	NO

PERMIT EXPIRES 180 DAYS IF
1) WORK DOES NOT COMMENCE, OR
2) WORK IS SUSPENDED OR ABANDONED, OR
3) FAILS TO OBTAIN CODE REQUIRED INSPECTION

NUMBER OF SIGNS: 3
SIGN DESCRIPTION: 3 NON-ILLUMINATED SIGNS FRONTIER COMM

EXIST BLDG USE:
EXIST OCC GRP:

BLDGS. NOW ON LOT: VALUATION:
3,670

FEES PAID

FEE DESCRIPTION:	QUANTITY:	UOM:	AMOUNT:
AA BLDG PERMIT ISSUANCE			57.40
AB STATE GREEN BLDG FEE	3670.00	VAL	1.00
AE STRONG MOTION OTHER	3670.00	VAL	1.00
BK DSBLTY ACCSS EDU FEE	1.00	DOL	1.00
BL BUSINESS LICENSE FEE	37.75	DOL	37.75
D1 PLANCHECK W/O EN-HC	3670.00	VAL	204.50
D2 PERMIT W/O EN-HC	3670.00	VAL	240.60
		TOTAL FEES	543.25

REPORT ID: DPR261 ROUTE TO: BS0506

BUILDING ADDRESS:
5010 AZUSA CANYON RD
IRWD CA 91706
NEAREST CROSS STREET: NUBIA
THOMAS PAGE: 598 GRID: E3 LOCALITY: IRWINDALE

ISSUED ON: PROCESSED BY:
04/14/16 KI

FINAL DATE FINAL BY: CODE:
9-14-16

DESCRIPTION OF WORK
3 NEW NON-ILLUMINATED ALUMINUM SIGNS FOR
"FRONTIER" COMMUNICATIONS: 20 SQ FT/11 SQ FT/1.6 SQ FT

SPECIAL CONDITIONS:

APPROVALS	DATE	INSPECTOR SIGNATURE
LOCATION AND SETBACKS		
SOILS ENGINEER APPROVAL		
FOUNDATION/TRENCH FORMS		
SUPPORT STRUCTURE		

OWNER-BUILDER DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the Contractors' State License Law for the reason(s) indicated by the checkmark(s) I have placed next to the applicable item(s) (Section 7031.5, Business and Professions Code): Any city or county that requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for the permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors' State License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt from licensure and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).):

(_) I, as owner of the property, or my employees with wages as their sole compensation, will do (✓) all of or (_) portions of the work, and the structure is not intended or offered for sale (Section 7044, Business and Professions Code: The Contractors' State License Law does not apply to an owner of property who, through employees' or personal effort, builds or improves the property, provided that the improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the Owner-Builder will have the burden of proving that it was not built or improved for the purpose of sale.).

(_) I, as owner of the property, am exclusively contracting with licensed Contractors to construct the project (Section 7044, Business and Professions Code: The Contractors' State License Law does not apply to an owner of property who builds or improves thereon, and who contracts for the projects with a licensed Contractor pursuant to the Contractors' State License Law).

(_) I am exempt from licensure under the Contractors' State License Law for the following reason:

By my signature below I acknowledge that, except for my personal residence in which I must have resided for at least one year prior to completion of the improvements covered by this permit, I cannot legally sell a structure that I have built as an owner-builder if it has not been constructed in its entirety by licensed contractors. I understand that a copy of the applicable law, Section 7044 of the Business and Professions Code, is available upon request when this application is submitted or at the following Web site: http://www.leginfo.ca.gov/calaw.html.

Date: _____

Signature of Property Owner or Authorized Agent

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class ON License No. FILE

Date 4/14/16 Contractor Signature B Gomez

WORKERS' COMPENSATION DECLARATION

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

I hereby affirm under penalty of perjury one of the following declarations:

____ I have and will maintain a certificate of consent to self-insure for workers' compensation, issued by the Director of Industrial Relations as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

Policy No. _____

BG I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier ON FILE Policy Number Expiration Date

Name of Agent Phone Number

___ I certify that, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that, if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

B Gomez 4/14/16

Signature of Applicant Date

LOBBYIST ORDINANCE CERTIFICATION

Complete this section for permits in Unincorporated Los Angeles County only

This is to certify that I, as permit applicant, am familiar with the requirements of Los Angeles County Code Chapter 2.160 et seq., (relating to the Los Angeles County Lobbyist Ordinance) and that all persons acting on behalf of myself complied and will continue to comply therewith through the application process.

Applicant (Print Name) Applicant Signature

Company Name Date

JOB ADDRESS

LOCALITY

HAZARDOUS MATERIAL DECLARATION

Will the applicant or future building occupant handle a hazardous material or a mixture containing a hazardous material equal to or greater than the amount specified on the hazardous materials information guide?

Yes ☐ No ☐

Will the intended use of the building by the applicant or future building occupant require a permit for construction or modification from the South Coast Air Quality Management District (SCAQMD)? See permitting checklist for guidelines.

Yes ☐ No ☐

I have read the hazardous materials information guide and the SCAQMD permitting checklist, I understand my requirements under the Los Angeles County Code Title 2, Chapter 220 Sections 220.100 through 220.140 concerning hazardous material reporting and for obtaining a permit from the SCAQMD.

ASBESTOS NOTIFICATION

☐ Notification letter sent to AQMD and/or EPA

☐ I declare that notification of asbestos removal is not applicable to addressed project.

DECLARATION REGARDING CONSTRUCTION LENDING AGENCY

I hereby affirm under penalty of perjury that there is a Construction lending agency for the performance of the work for which this permit is issued (Section 3097, Civil Code).

Lender's Name

Lender's Address

By my signature below, I certify to each of the following:
I am the property owner or authorized to act on the property owner's behalf.
I have read this application and the information I have provided is correct.
I agree to comply with all applicable city and county ordinances and state laws relating to building construction.
I authorize representatives of this county to enter the above-identified property for inspection purposes.

Signature of Property Owner or Authorized Agent

B Gomez

Date 4/14/16

All California Signs

Home Office 80 Pelican Ct, Newport Beach, CA 92660 - CA Contractors License #636326

NorCal (408) 689-2607 info@acsign.com SoCal (949) 209-8716

AUTHORIZATION

Property Owners Authorization for sign changes at:
5010 Azusa Canyon Rd Irwindale, CA 91706

To the City of Irwindale;

I have reviewed and approved the plans for all aspects of the signs at the above location. This letter authorizes All California Signs to act as my representative and sign on my behalf the documents required by the respective government agency(s) for necessary licenses, approvals, and permits.

The following information is required:

Property Owner: Frontier Communications Corporation

Property Owner Address: 401 Merritt 7, Norwalk, CT 06851

Property Owner Telephone: 518-618-1667

Property Owner Email: jeffmangione@strategicsignage.com

Print Name of Owner/Representative: Jeff Mangione

Signature of Owner/Representative: Jeff Mangione

Assessor's Parcel Number (APN): 8417-025-800

Date: 3-15-16

All California Signs CA License # 636326
Workers Compensation: State Fund Policy 1953854-12 Expires 3-1-2017
Liability Insurance CCP714526 Expires 10-21-2016
Auto Mercury Insurance Group Policy# BA040000000102 Expires 10/21/2016
CA Contractors License: C-45 636326 Expires 3-31-2018
Bond: 108064 Surtec Insurance Company

NorCal (408) 689-2607 info@acsign.com SoCal (949) 209-8716

Frontier Communications 5010 AZUSA CANYON RD IRWINDALE, CA91706

BUILDING AND SAFETY DIVISION
Department of Public Works
APPROVED
UNDER
BY:
APR 11 2016

This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations on same without written permission from the Building and Safety Division, County of Los Angeles. The stamping of this plan and specifications shall not be held to permit or to be an approval of the violation of any provisions of any County Ordinance or State Law.

SIGNS ONLY

SIGN 1

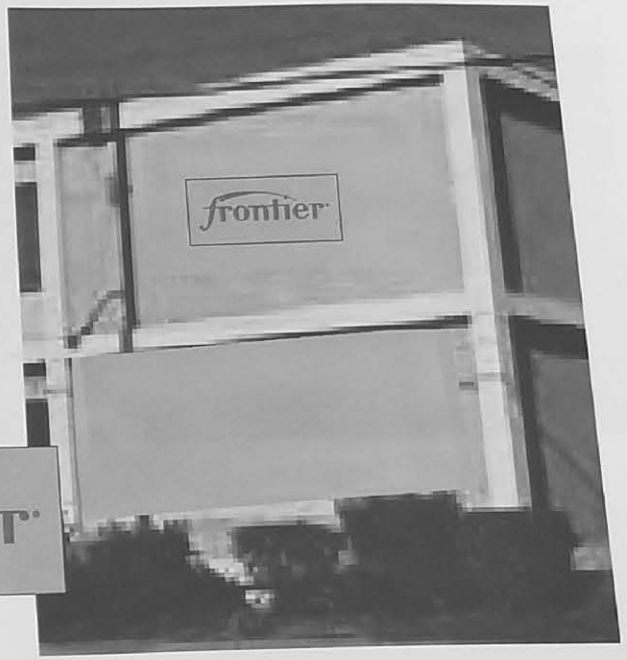
CITY OF IRWINDALE
PUBLIC WORKS DEPARTMENT
APR 13 2016
APPROVED
BY:

EXISTING SIGN

verizon

PROPOSED SIGN

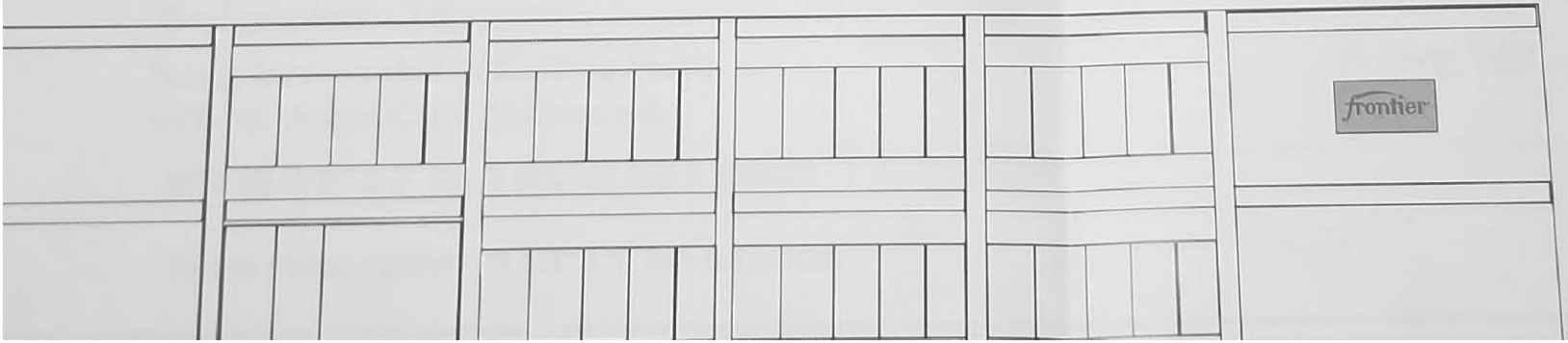
frontier

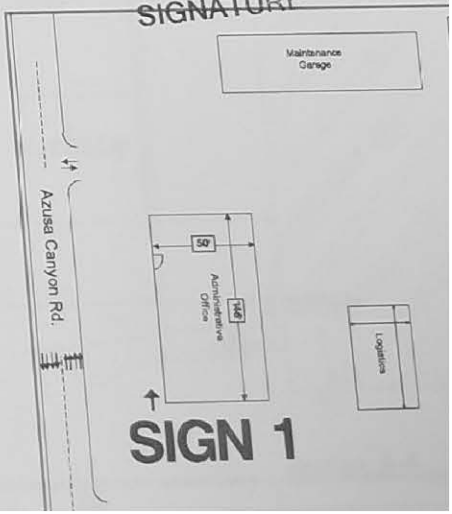


11'

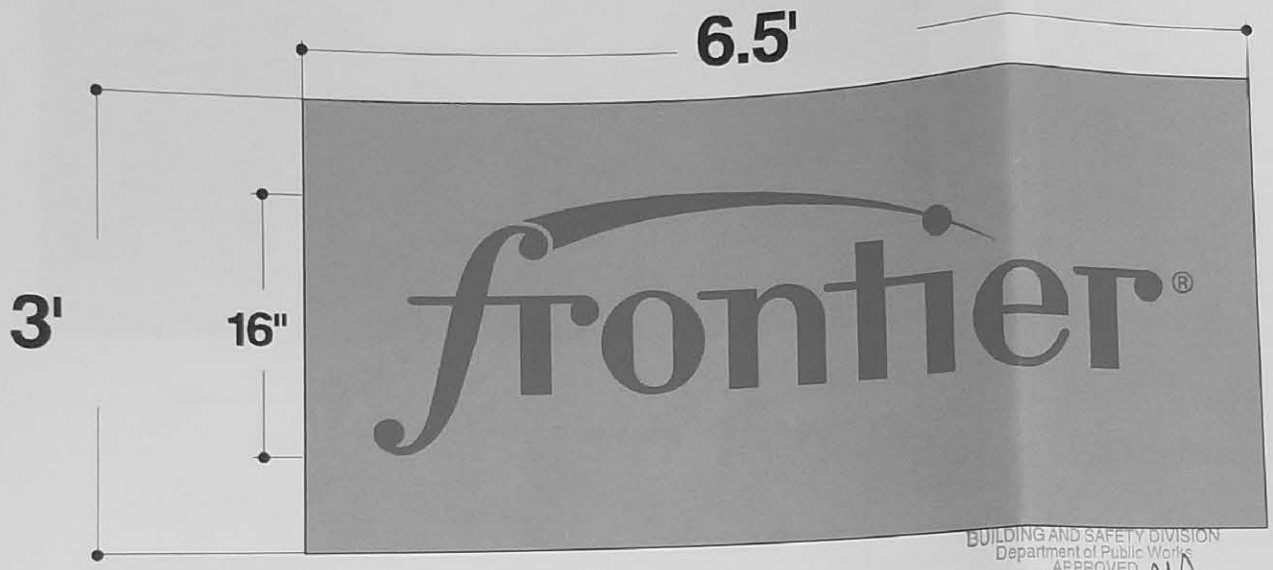
28'

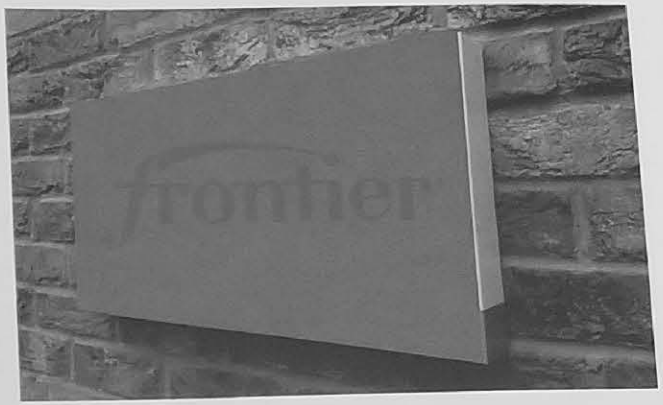
CITY OF IRWINDALE
COMMUNITY DEVELOPMENT
APPROVED
APR 13 2016
BY
SIGNATURE





SIGN 1





3' x 6.5' = 19.5 sq ft

BUILDING AND SAFETY DIVISION
Department of Public Works
APPROVED
UNDER TITLE 26
BY:
APR 14 2016

This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations on same without written permission from the Building and Safety Division, County of Los Angeles. The stamping of this plan and specification SHALL NOT be held to permit or to be an approval of the violation of any provisions of any County Ordinance or State Law

GENERAL SPECIFICATIONS :

Non - Illuminated Pan Sign.

Fabricated .125" Aluminum Pan. Painted.
Vinyl graphics - 1st surface .

Pan to be mounted to Building Fascia
with Mt. Angle Clips, Fasteners &

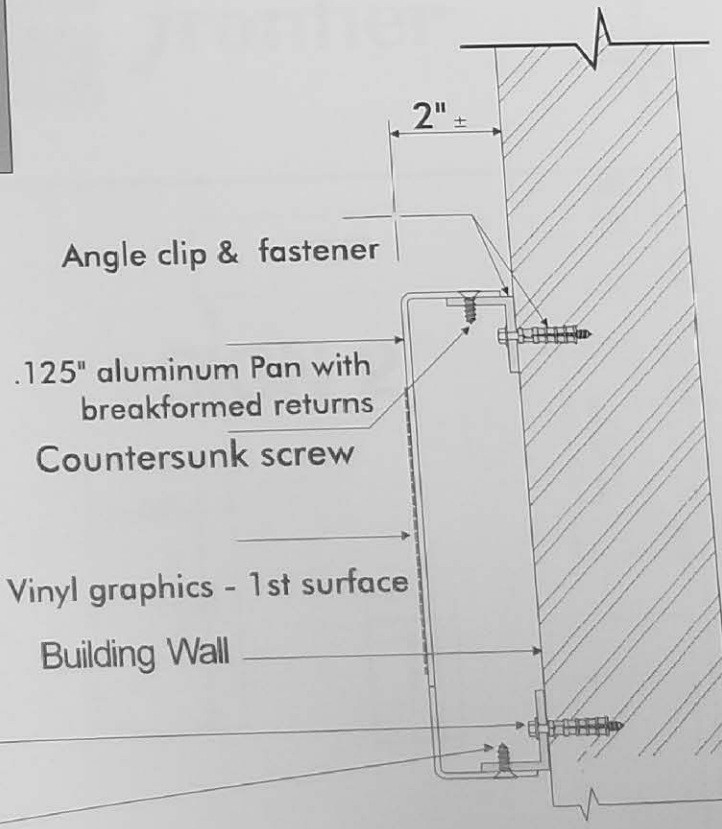
with (4) 3/16" x 3" lag & anchor top & bottom

Sheet metal screw (4) 1/8" x 1" top & bottom

COLOR SCHEME

PMS 187C
C0, M100, Y79, K20
R196, G48, B18

PMS Cool Grey 6C
Glossy metallic



Section A-A

Strategic Signage
2 Gilbert Rd.
Saratoga Springs, NY 12866

Customer Frontier Communications
Address
City
State
File name S8517 Frontier Com Pan Sign

Dwg. No. S8517
Scale As Noted
Date
Designer EII
Contact Jeff Mangione

This illustration is a conceptualization of a design presented and is not intended to resolve any engineering, code or fabrication requirements. The information contained in this document is the sole property of Strategic Signage Sourcing, LLC. Any reproduction or use without consent of Strategic Signage Sourcing, LLC. is prohibited.

REQUIRED ELECTRICAL SERVICE TO SIGN LOCATION IS TO BE PROVIDED BY OTHERS

REVISIONS

CE808 10-63
76A642D

CITY OF IRWINDALE

APPLICATION

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER

CITY OF IRWINDALE

76A638A CE803 8-64

APPLICATION FOR BUILDING PERMIT

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, COUNTY ENGINEER
COLEMAN W. JENKINS, SUP'T OF BUILDING

FOR APPLICANT TO FILL IN	
BUILDING ADDRESS	5010 Azusa Cnyn Rd
LOT NO.	BLOCK
TRACT	In file
SIZE OF LOT	NO. OF BLDGS. NOW ON LOT
USE OF EXISTING BLDG.	warehse and office
OWNER	General Tel TEL NO. 393-9311
ADDRESS	2020 Santa Monica Bl
CITY	Santa Monica
ARCHITECT OR ENGINEER	Beckwith + Mill TEL NO. 2567674
ADDRESS	844 W Colorado Blvd
CONTRACTOR	Ababa Demo TEL NO 444-30505
ADDRESS	1455 Potrero LIC NO 239727
CITY	So El Monte LIC CLASS C-21

DESCRIPTION OF WORK

NEW ADD ALTER REPAIR DEMOLISH

SQ. FT SIZE	NO. OF STORIES	NO. OF FAMILIES
15000	2	

USE OF STRUCTURE: demo whse-office bldg

SIGNATURE OF APPLICANT

VALUATION $ 5485 00

P.C. FEE $		PMT. FEE $ 25.50

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF PERMITTEE David Nuang

ADDRESS 1463 Potrero So El Monte

BUILDING ADDRESS	5010 Azusa Cnyn Rd
LOCALITY	Irwindale
NEAREST CROSS ST.	Arrow Highway

DISTRICT NO.	GROUP	TYPE CONST.	PROCESSED BY
506	F2	I	Coster

STATISTICAL CLASSIFICATION — CLASS NO. 10 DWELL UNITS ____ — SEWER MAP BK PG

USE ZONE	MAP NO.
A-1 M-1	2407

SPECIAL CONDITIONS

BLDG. SETBACK FROM FRONT PROP. LINE OF ____ (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

BLDG. SETBACK FROM SIDE PROP. LINE OF ____ (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

CORNER CUTOFF YES ☐ NO ☐

SEE REVERSE SIDE FOR SPECIAL APPROVALS

1-22-66 Still wrking
Pmt of Bldg
5-27-65 Fence at Sidewalk
Pulling front down
6-10-66 Site Clear
Bldg Pmt

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION, LOCATION FORMS, MATERIALS		
FRAME, FIRE STOPS, BRACING BOLTS		
FURNACE: LOCATION GAS VENT. DUCTS		
LATH. INT.		
LATH. EXT.	6-17-66	Coster
HOUSE NUMBER CORRECT AND POSTED		
FINAL		

JOHN F. LEWIS, PRINCIPAL STRUCTURAL ENGINEER

PLAN CHECK VALIDATION CK. M.O. CASH —

PERMIT VALIDATION CK. M.O CASH

IAC0 10613 APR13 1 25.50 M

INSPECTION OF THE ABOVE (DATE)

CITY OF IRWINDALE

76A638A CE #803 2-63

APPLICATION FOR BUILDING PERMIT

1

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, COUNTY ENGINEER
WILLIAM A. JENSEN, SUP'T OF BUILDING

BUILDING ADDRESS	5010 N. AZUSA CANYON ROAD
LOCALITY	IRWINDALE
NEAREST CROSS ST.	ARROW HWY

DISTRICT NO.	GROUP	TYPE CONST.	PROCESSED BY
5106	F-1		COSTER

STATISTICAL CLASSIFICATION	SEWER MAP
CLASS. NO. 73 DWELL. UNITS —	BK. PG. Bit. Sewer

WATER CERTIFICATE: NOT REQUIRED ☐ RECEIVED ☐

MAP NO. 2407 HIGHWAY (CIRCLE) STATE MAJOR SECOND, LOCAL

USE ZONE A-1 150 / M-1 SPECIAL CONDITIONS

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	20		Azusa Canyon	80
SIDE P. L.				

ZONE OK. M.1. allied Numerical work back 150' from street. in M-1 Zone

FOR APPLICANT TO FILL IN

BUILDING ADDRESS 5010 N. AZUSA CANYON ROAD

LOT NO. PORTIONS OF ~~LOTS~~ PARCELS 1, 2, & 3 BLOCK

TRACT

SIZE OF LOT IRREG. 600FT X 525 & 334 FT X 325 FT NO. OF BLDGS. NOW ON LOT 8

USE OF EXISTING BLDG. VEHICLE SERVICE BLDG.

OWNER GEN. TELEPHONE CO. TEL. NO. 451-6525

ADDRESS 2020 SANTA MONICA BLVD.

ARCHITECT OR ENGINEER BECKHART & MILL TEL. NO. 254 7141

ADDRESS 844 W COLORADO BLVD, L.A.

CONTRACTOR NOT SELECTED TEL. NO. —

ADDRESS —

DESCRIPTION OF WORK

NEW (ADD) ALTER REPAIR DEMOLISH

SQ. FT. SIZE — NO. OF STORIES — NO. OF FAMILIES —

USE OF STRUCTURE ADDITION OF 2 LUBRICATION LIFTS IN EXIST. VEHICLE SERVICE BLDG.

SIGNATURE OF APPLICANT John S. Mill Archt.

VALUATION $ 10,000

P.C. FEE $ 29.10 PMT. FEE $ 48.50

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF PERMITTEE Armando Gonzalez Jr.

ADDRESS 844 W. Colorado Blvd - LA BECKHART & MILL ARCHITECTS

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION: LOCATION FORMS, MATERIALS	6-17-68	Coster
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
HOUSE NUMBER CORRECT AND POSTED	8-6-68	Coster
FINAL		

JOHN F. LEWIS, PRINCIPAL STRUCTURAL ENGINEER

PLAN CHECK VALIDATION CK. M.O. CASH —

PERMIT VALIDATION (CK) M.O. CASH

LAC 19428 JUN 523 29.10 in

LAC 19448 JUN 17 1 48.50 in

...ONAL CONTAC... ...APPLICATION FOR COMPLETE FEE SCHEDULE

...ENCE INSPECTION OF THE ABOVE JOB ... (DATE) 3/29/68

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, COUNTY ENGINEER
COLEMAN W. JENKINS, SUP'T. OF BUILDING

FOR APPLICANT TO FILL IN

RECEPT. 1 | LIGHT 1 | SWITCH 2 | TOTAL OUTLETS | FIRST 20 | NO. EACH

FOR ELECTRICAL PERMIT

BUILDING ADDRESS 5010 N. AZUSA C

LOCALITY IRW

NEAREST

GASOLINE ISLAND

CITY OF IRWINDALE

1

76A638A CE #803 2-63

APPLICATION FOR BUILDING PERMIT

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, COUNTY ENGINEER
WILLIAM A. JENSEN, SUP'T OF BUILDING

BUILDING ADDRESS 5010 N. AZUSA CANYON RD.
LOCALITY IRWINDALE
NEAREST CROSS ST. ARROW HWY.

DISTRICT NO. 5106 | GROUP F-1 | TYPE CONST. IV | PROCESSED BY Coster

STATISTICAL CLASSIFICATION | SEWER MAP BK PG

CLASS. NO. 16 DWELL. UNITS

WATER CERTIFICATE: NOT REQUIRED ☐ RECEIVED ☐

MAP NO. 2407 HIGHWAY (CIRCLE) STATE MAJOR SECOND. LOCAL

USE ZONE A-1-M-1 | SPECIAL CONDITIONS

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	10'		AZUSA CANYON	
SIDE P. L.				

OK PER ZONING CASES. 66-3-C AND 66-4-V.
NMF

FOR APPLICANT TO FILL IN

BUILDING ADDRESS 5010 N. AZUSA CANYON RD
LOT NO. SEE ATTACHED | BLOCK
TRACT
SIZE OF LOT | NO. OF BLDGS. NOW ON LOT
USE OF EXISTING BLDG.
OWNER GENERAL TELEPHONE | TEL. NO.
ADDRESS 2020 SANTA MONICA BLVD.
ARCHITECT OR ENGINEER BECKHART & MILL | TEL. NO. 256 7674
ADDRESS 844 W. COLOPADO BLVD.
CONTRACTOR NOT SELECTED | TEL. NO.
ADDRESS

DESCRIPTION OF WORK

(NEW) ADD ALTER REPAIR DEMOLISH
SQ. FT. SIZE 280 | NO. OF STORIES | NO. OF FAMILIES
USE OF STRUCTURE GAS ISLAND

SIGNATURE OF APPLICANT Michael Frazier
VALUATION $ 7,000

P.C. FEE $ 14.50 | PMT. FEE $ 29.00

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF PERMITTEE Armando L. Corrales Jr.
ADDRESS BECKHART & MILL ARCHITECTS LOS ANGELES

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION: LOCATION FORMS, MATERIALS	3-8-67	Coster
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
HOUSE NUMBER CORRECT AND POSTED	8-14-67	Coster
FINAL		

JOHN F. LEWIS, PRINCIPAL STRUCTURAL ENGINEER

PLAN CHECK VALIDATION CK. M.O. CASH —

PERMIT VALIDATION CK. M.O. CASH

LACo 11468 AUG 17 23 14.50 M

LACo 12068 OCT 14 1 29.00 M

INSPECTOR COPY

...SIGNED ...ABOV...

CITY OF IRWINDALE

APPLICATION FOR PLUMBING PERMIT

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, COUNTY ENGINEER
WILLIAM A. JENSEN, SUP'T OF BUILDING

ENGINEERING

BUILDING

NUMBER

FOR APPLI

CITY OF IRWINDALE

1

76A638A CE#803 8-64

APPLICATION FOR BUILDING PERMIT

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, COUNTY ENGINEER
COLEMAN W. JENKINS, SUP'T OF BUILDING

BUILDING ADDRESS: 5010 Azusa Canyon Rd.
LOCALITY: Irwindale
NEAREST CROSS ST.: Arrow Hwy

DISTRICT NO.: 5,06 | GROUP: Walls | TYPE CONST.: Block | PROCESSED BY: Coster

STATISTICAL CLASSIFICATION
CLASS NO.: 16 DWELL UNITS: ____ | SEWER MAP BK PG

USE ZONE: M-1 1-17 | MAP NO.: 2407 | SPECIAL CONDITIONS:

BLDG. SETBACK FROM FRONT PROP. LINE OF ____ (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

BLDG. SETBACK FROM SIDE PROP. LINE OF ____ (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

CORNER CUTOFF YES ☐ NO ☐

SEE REVERSE SIDE FOR SPECIAL APPROVALS

4-10-67 Norhol Bldg. Contractors

5-3-67 Ready to be Cooler

FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 5010 N. AZUSA CANYON RD
LOT NO: LEGAL ON FILE BLOCK
TRACT
SIZE OF LOT | NO. OF BLDGS. NOW ON LOT
USE OF EXISTING BLDG.
OWNER: GEN. TELE TEL. NO.
ADDRESS: 5010 NO. AZUSA CANYON RD
CITY: IRWINDALE, CALIF.
ARCHITECT OR ENGINEER: BECKHARDT & MILL TEL. NO. 256-7671
ADDRESS: 844 W. COLORADO BLVD
CONTRACTOR: MACISAAC & MENKE TEL NO. 965-4118
ADDRESS: LIC NO
CITY: LOS ANGELES LIC CLASS

DESCRIPTION OF WORK

NEW ADD ALTER REPAIR DEMOLISH
SQ. FT. SIZE | NO. OF STORIES | NO. OF FAMILIES
USE OF STRUCTURE: HIGH & LOW RETAINING WALLS & YARD WALLS
SIGNATURE OF APPLICANT: John S. Mill

VALUATION $ 10,800 00

P.C. FEE $

PMT. FEE $ 43 00

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF PERMITTEE: MacIsaac & Menke By H. E. Conduit

ADDRESS

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION, LOCATION FORMS, MATERIALS		
FRAME, FIRE STOPS, BRACING BOLTS		
FURNACE: LOCATION GAS VENT. DUCTS		
LATH. INT.		
LATH. EXT.		
HOUSE NUMBER CORRECT AND POSTED		
FINAL	7-24-67	Schrock

JOHN F. LEWIS, PRINCIPAL STRUCTURAL ENGINEER

PLAN CHECK VALIDATION CK. M.O. CASH —

PERMIT VALIDATION CK. M.O. CASH

LAC013936 APR 7 1 43.00 m

INSPECTOR COPY

ABOVE JOB: (DATE) 3/24/67

STANT PERSONAL INSPECTION ON (DATE) 3/24/67

RING PROGRESS OF SA

CITY OF IRWINDALE

1

75A638A CE#803 8-64

APPLICATION FOR BUILDING PERMIT

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, County Engineer
COLEMAN W. JENKINS, Sup't of Building

BUILDING ADDRESS	5010 N. Azusa Canyon
LOCALITY	Irwindale
NEAREST CROSS ST.	Arrow Hwy

DISTRICT NO.	GROUP	TYPE CONST.	PROCESSED BY
5106	J	Steel	[illegible]

STATISTICAL CLASSIFICATION — CLASS NO. 23 DWELL UNITS ____ — SEWER MAP BK PG

USE ZONE: M-1 — MAP NO. 2407 — SPECIAL CONDITIONS: ok Per Zoning Cases - 66-3-Ca 66-4-V

BLDG. SETBACK FROM FRONT PROP. LINE OF ____ (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

BLDG. SETBACK FROM SIDE PROP. LINE OF ____ (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

CORNER CUTOFF YES ☐ NO ☐

FOR APPLICANT TO FILL IN

BUILDING ADDRESS	5010 N. AZUSA CANYON RD.
LOT NO.	L & Cal & File — BLOCK
TRACT	
SIZE OF LOT	NO. OF BLDGS. NOW ON LOT
USE OF EXISTING BLDG.	
OWNER	GEN. TELE — TEL. NO.
ADDRESS	5010 No. AZUSA Canyon RD
CITY	IRWINDALE
ARCHITECT OR ENGINEER	BECKHART & HALL — TEL.
ADDRESS	840 W. Colorado BLVD
CONTRACTOR	Norris PIPE — TEL. NO 962-4418
ADDRESS	5023 No. AZUSA — LIC NO
CITY	CANYON ROAD BALDWIN PARK — LIC CLASS 10630

DESCRIPTION OF WORK

(NEW) ADD ALTER REPAIR DEMOLISH

SQ. FT. SIZE	NO. OF STORIES	NO. OF FAMILIES

USE OF STRUCTURE: Underground Tank

SIGNATURE OF APPLICANT

VALUATION $ 250.00

P.C. FEE $ ~~250.00~~

PMT. FEE $ 6.00

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF PERMITTEE Elmer A. Norris

ADDRESS ____

SEE REVERSE SIDE FOR SPECIAL APPROVALS

Subject to ED Field use
1-1867 Tank in Use Base
Powrd Bands on Starting
Sandfill Leftward to check with
Fire Dept. Costa

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION, LOCATION FORMS, MATERIALS		
FRAME, FIRE STOPS, BRACING BOLTS		
FURNACE: LOCATION GAS VENT. DUCTS		
LATH. INT.		
LATH. EXT.		
HOUSE NUMBER CORRECT AND POSTED		
FINAL	1-28-67	[illegible]

JOHN F. LEWIS, Principal Structural Engineer

PLAN CHECK VALIDATION CK. M.O. CASH —

PERMIT VALIDATION (CK.) M.O CASH

LAC 13056 JAN 13 1 6.00 M

INSPECTOR COPY

OF APPLICATION FOR COMPLETE FEE SCHEDULE

CITY OF IRWINDALE

1

76A638A CE#803 8-64

APPLICATION FOR BUILDING PERMIT

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, COUNTY ENGINEER
COLEMAN W. JENKINS, SUP'T OF BUILDING

FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 5010 N. AZUSA CANYON ROAD
LOT NO.: Legal in file — BLOCK:
TRACT:
SIZE OF LOT: — NO. OF BLDGS. NOW ON LOT: 9
USE OF EXISTING BLDG.: STORAGE SHED
OWNER: GENERAL TELEPHONE CO. — TEL. NO.:
ADDRESS:
CITY: SANTA MONICA, CALIF.
ARCHITECT OR ENGINEER: BECKHART & MILL — TEL. NO.: 254 7141
ADDRESS: 844 W. COLORADO BLVD.
CONTRACTOR: — TEL. NO
ADDRESS: — LIC NO
CITY: — LIC CLASS

DESCRIPTION OF WORK

NEW — ADD — ALTER — REPAIR — (DEMOLISH)
SQ. FT. SIZE: 52 00 — NO. OF STORIES: 1 — NO. OF FAMILIES:
USE OF STRUCTURE:
SIGNATURE OF APPLICANT: BECKHART & MILL ARCHITECTS, Armando V. Gonzalez V.
VALUATION $: 800.00

P.C. FEE $: — PMT. FEE $: 8 00

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF PERMITTEE: Armando V. Gonzalez V. BECKHART & MILL ARCHITECTS
ADDRESS: 844 W. COLORADO BLVD LA MILL ARCHITECTS

BUILDING ADDRESS: 5010 AZUSA CANYON
LOCALITY: IRWINDALE
NEAREST CROSS ST.: ARROW HWY

DISTRICT NO.	GROUP	TYPE CONST.	PROCESSED BY
5106	G		Coster

STATISTICAL CLASSIFICATION — CLASS NO. 10 — DWELL UNITS: — SEWER MAP BK PG

USE ZONE: M1 — MAP NO. 2407 — SPECIAL CONDITIONS:

BLDG. SETBACK FROM FRONT PROP. LINE OF _____ (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

BLDG. SETBACK FROM SIDE PROP. LINE OF _____ (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

CORNER CUTOFF — YES ☐ — NO ☐

SEE REVERSE SIDE FOR SPECIAL APPROVALS

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION, LOCATION FORMS, MATERIALS		
FRAME, FIRE STOPS, BRACING BOLTS		
FURNACE; LOCATION GAS VENT. DUCTS		
LATH. INT.		
LATH. EXT.		
HOUSE NUMBER CORRECT AND POSTED		
FINAL		

JOHN F. LEWIS, PRINCIPAL STRUCTURAL ENGINEER

PLAN CHECK VALIDATION — CK. — M.O. — CASH _

PERMIT VALIDATION — (CK.) — M.O — CASH

LAC 21418 JAN 17 1 8.00 M

VALUATION $ 35,000 — $14,800

P.C. FEE $ 61.00 — PMT. FEE $ 24.50

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION — THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY

Taken in error

35.50 Paid PC → 61.00 — 14.50

APPROVALS — DATE — INSPECTOR'S SIGNATURE

FOUNDATION: LOCATION FORMS, MATERIALS — 3-23-66

FRAME: FIRE STOPS, BRACING, BOLTS

FURNACE: LOCATION GAS VENT. DUCTS

CITY OF IRWINDALE

1

APPLICATION FOR BUILDING PERMIT

76A638A CE #803 2-63

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, County Engineer
WILLIAM A. JENSEN, Sup't of Building

BUILDING ADDRESS	5010 N AZUSA CANYON RD.
LOCALITY	IRWINDALE
NEAREST CROSS ST.	NUBIA
DISTRICT NO.	5.06
GROUP	F
TYPE CONST.	V
PROCESSED BY	Cost
STATISTICAL CLASSIFICATION	
CLASS. NO.	17 DWELL. UNITS
SEWER MAP BK PG	
WATER CERTIFICATE:	NOT REQUIRED ☐ RECEIVED ☐
MAP NO.	2407
HIGHWAY (CIRCLE)	STATE MAJOR SECOND. LOCAL
USE ZONE	M-1
SPECIAL CONDITIONS	

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	50'		AZUSA CANYON	
SIDE P. L.				

OK TO ZONING MMF.

2-28-66 Hot water line in kit

3-4 - South & west Holidays

3-14-66 Startup Grand Cost

3-18-66 Startup Wagner Grand

New Valuation 14,800 PC 28.50
Permit 57.00
85.50
Paid PC 61.00
24.50

FOR APPLICANT TO FILL IN

BUILDING ADDRESS	5010 NO. ASUZA CYN. RD
LOT NO.	S/W 1/4 OF N/W 1/4 BLOCK
TRACT	SEC 9, T1S, R10W
SIZE OF LOT	525 x 660 NO. OF BLDGS. NOW ON LOT 3
USE OF EXISTING BLDG.	STORAGE & SERVICE
OWNER	GENERAL TELEPHONE TEL. NO.
ADDRESS	2020 SANT MONICA
ARCHITECT OR ENGINEER	BECKHART & MILL TEL. NO. 256-7674
ADDRESS	844 W. COLORADO, LA 41, CAL.
CONTRACTOR	TEL. NO.
ADDRESS	

DESCRIPTION OF WORK

NEW	ADD	ALTER	REPAIR	DEMOLISH
SQ. FT. SIZE			NO. OF STORIES	NO. OF FAMILIES
USE OF STRUCTURE				

SIGNATURE OF APPLICANT John Tougish — New Valuation 12

VALUATION $ ~~25,000~~ $14,800

P.C. FEE $ ~~61.00~~

PMT. FEE $ 24.50

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF PERMITTEE J D Timmons

ADDRESS

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION: LOCATION FORMS, MATERIALS	3-23-66	Coste
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
HOUSE NUMBER CORRECT AND POSTED	6-17-66	Coste
FINAL		

JOHN F. LEWIS, Principal Structural Engineer

PLAN CHECK VALIDATION (CK.) M.O. CASH

PERMIT VALIDATION (CK.) M.O. (CASH)

LAC0 10238 FEB21 2 3 61.00 M

To Correct plan check fee in error — Balance for Permit

LAC0 10268 FEB25 1 14.50

LAC0 10298 FEB25 1 10.00

#24.50

DISTRICT OFFICE (DATE)

PMT. FEE $ 141.00

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL ORDINANCES AND LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA IN RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF

APPROVALS	DATE	INSPECTOR'S SIGNA
FOUNDATION: LOCATION FORMS, MATERIALS	7-24-67	
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		

CITY OF IRWINDALE

Bldg A

1

76A638A CE #803 2-63

APPLICATION FOR BUILDING PERMIT

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, COUNTY ENGINEER
WILLIAM A. JENSEN, SUP'T OF BUILDING

BUILDING ADDRESS: 5010 N. AZUSA CANYON RD.
LOCALITY: IRWINDALE
NEAREST CROSS ST.: ARROW HWY

DISTRICT NO.: 5.06 | GROUP: F-2 | TYPE CONST.: IV | PROCESSED BY: Custer

STATISTICAL CLASSIFICATION
CLASS. NO.: 16 DWELL. UNITS

SEWER MAP BK PG

WATER CERTIFICATE: NOT REQUIRED ☐ RECEIVED ☐

MAP NO.: 2407 HIGHWAY (CIRCLE) STATE MAJOR SECOND, LOCAL

USE ZONE: A-1-M1 SPECIAL CONDITIONS

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	10'		AZUSA CANYON	
SIDE P. L.				

OK PER ZONING CASES. 66-3-CU — 66-4-V.

NMF

12-21-66 checked Plots 12-23-66 pouring pads
2-10-67 Structural Sheet up ok
2-15-67 Dry Pack under all Columns ok

FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 5010 N. AZUSA CANYON RD.
LOT NO.: SEE ATTACHED BLOCK
TRACT
SIZE OF LOT | NO. OF BLDGS. NOW ON LOT
USE OF EXISTING BLDG.
OWNER: GENERAL TELEPHONE TEL. NO.
ADDRESS: 2020 SANTA MONICA BLVD
ARCHITECT OR ENGINEER: BECKHART & MILL TEL. NO. 256 7674
ADDRESS: 844 W. COLORADO BLVD.
CONTRACTOR: NOT SELECTED TEL. NO.
ADDRESS

DESCRIPTION OF WORK

NEW ADD ALTER REPAIR DEMOLISH
SQ. FT. SIZE: 5980 NO. OF STORIES: 1 NO. OF FAMILIES
USE OF STRUCTURE: OFFICES & WAREHOUSE
SIGNATURE OF APPLICANT: Michael Frazier
VALUATION $: 90,000

P.C. FEE $: 123.50 PMT. FEE $: 247.00

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF PERMITTEE: Wendell L. Gonzales
ADDRESS: BECKHART & MILL ARCHITECTS LOS ANGELES

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION: LOCATION FORMS, MATERIALS	12-23-66	Custer
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
HOUSE NUMBER CORRECT AND POSTED		
FINAL	7-26-67	Schrock

JOHN F. LEWIS, PRINCIPAL STRUCTURAL ENGINEER

PLAN CHECK VALIDATION CK. M.O. CASH

PERMIT VALIDATION CK. M.O. CASH

LACo 1144 S AUG 17 23 123.50 M

LACo 1204 S OCT 14 1 247.00 M

ING PROGRESS OF SAID ASSIGNED WORK.

SIGNATURE OF SPECIAL INSPECTOR

INSPECTOR COPY

Road

CITY OF IRWINDALE
LOCAL ORDINANCE/CSDLAC EXEMPT
THE INDUSTRIAL WASTE OPERATIONS REGULATED BY THIS PERMIT ARE LOCATED AT THE FACILITY ABOVE UNDER THE
WASTE GENERATING OPERATIONS:
DISCHARGE TIME:
AVERAGE FLOW:
COMPANY VEHICLE
FROM 00.00
<<<<< AREA/CITY
<<<<< JURISDICTION
003755 I03882 3S
5010 N AZUSA CANYON RD
AL HOLLIS. ENVIRON COMPLIANCE
(714) 590-6524
THIS PERMIT IS SUBJECT TO
A1 ON-SITE
C1

76A638A CE #803 4/70

CITY OF IRWINDALE

1

APPLICATION FOR BUILDING PERMIT

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, COUNTY ENGINEER
COLEMAN W. JENKINS, SUP'T OF BUILDING

FOR APPLICANT TO FILL IN
(Print or type only)

BUILDING ADDRESS: 5010 AZUSA CANYON RD.
LOT NO.: BLOCK:
TRACT:
SIZE OF LOT: Legal in File
NO. OF BLDGS. NOW ON LOT: 9
USE OF EXISTING BLDG.: Engineering & office
OWNER: Gen. Tel. Co. of Calif. TEL. NO.: 451-6452
ADDRESS: 100 Wilshire Blvd., P.O. Box 889
CITY: Santa Monica 90401
ARCHITECT OR ENGINEER: owner TEL. NO.:
ADDRESS:
CONTRACTOR: MOUNTJOY CONST. TEL NO.: 359-3275
ADDRESS: 696 W. Foothill LIC. NO.: 231604
CITY: Monrovia Ca 91016 LIC. CLASS: B-1
CONSTRUCTION LENDER NAME AND BRANCH: None
ADDRESS:

SQ. FT. SIZE	NO. OF STORIES	NO. OF FAMILIES	
			NEW ☐
USE OF STRUCTURE: BLDG			ADD ☐
			ALTER ☒
SIGNATURE OF APPLICANT: R. Mary			REPAIR ☐
			DEMOL ☐

VALUATION $ 15,000.00

P.C. FEE $ 84.60
PMT. FEE $ 141.00

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL ORDINANCES AND LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA IN RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF PERMITTEE: Doreen Porter
ADDRESS: 696 W. Foothill Blvd

ASSESSOR MAP BOOK | PAGE | PARCEL

BUILDING ADDRESS: 5010 N AZUSA CANYON RD
LOCALITY: IRWINDALE
NEAREST CROSS ST.: ARROW HWY

DISTRICT NO.	GROUP	TYPE CONST.	PROCESSED BY
5106	F2		COSTER

STATISTICAL CLASSIFICATION: CLASS NO. 22 DWELL. UNITS —
SEWER MAP: BK PG

USE ZONE: M-1
MAP NO.: 2407
SPECIAL CONDITIONS:

BLDG. SETBACK FROM FRONT PROP. LINE OF _____ (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

BLDG. SETBACK FROM SIDE PROP. LINE OF _____ (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

CORNER CUTOFF YES ☐ NO ☐

SEE REVERSE SIDE FOR SPECIAL APPROVALS

see over

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION: LOCATION FORMS, MATERIALS	7-24-74	M. Minor
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
HOUSE NUMBER CORRECT AND POSTED		
FINAL	1-15-75	COSTER

JOHN F. LEWIS, PRINCIPAL STRUCTURAL ENGINEER

PLAN CHECK VALIDATION (CK) M.O. CASH
555774 JUN2823 84.60 32

PERMIT VALIDATION (CK.) M.O. CASH
558774 JUL22 1 141.00 32
M. Minor

INSPECTOR COPY

OPERATIONS REGULATED BY THIS PERMIT CONSIST OF ... AREA/CITY JURISDICTION | ORD 364 TRUCK REPAIR ... THE FACILITY ABOVE UNDER THE SANITARY SEWER ... COMPLIANCE

OPERATING OPERATIONS: COMPANY VEHICLE CAR WASH
DISCHARGE TIME: FROM 00.00.00 TO 00.00.00
AVERAGE FLOW: 7870 GAL PER ...

THIS PERMIT IS SUBJECT TO THE FOLLOWING ...

A1 ON-SITE, PUBLIC ...
C1 GENERAL ...

CITY OF IRWINDALE
CONTINUOUS INSPECTION REQ'D.
FOR ..... BY .....

76A638A CE #803 2-63

APPLICATION FOR BUILDING PERMIT

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, COUNTY ENGINEER
WILLIAM A. JENSEN, SUP'T OF BUILDING

BUILDING ADDRESS	5010 N AZUSA CANYON RD.			
LOCALITY	IRWINDALE			
NEAREST CROSS ST.	ARROW HWY			
DISTRICT NO. 5.06	GROUP F-2	TYPE CONST. 1	PROCESSED BY COSAL	
STATISTICAL CLASSIFICATION CLASS. NO. 16 DWELL. UNITS			SEWER MAP BK PG	
WATER CERTIFICATE: NOT REQUIRED ☐		RECEIVED ☐		
MAP NO. 3407	HIGHWAY (CIRCLE)	STATE MAJOR SECOND. LOCAL		
USE ZONE A-1-M-1	SPECIAL CONDITIONS			

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	16'		AZUSA CANYON	
SIDE P. L.				

FOR APPLICANT TO FILL IN

BUILDING ADDRESS	5010 N. AZUSA CANYON RD.		
LOT NO.	SEE ATTACHED	BLOCK	
TRACT			
SIZE OF LOT		NO. OF BLDGS. NOW ON LOT	
USE OF EXISTING BLDG.			
OWNER	GENERAL TELEPHONE	TEL. NO.	
ADDRESS	2020 SANTA MONICA BLVD		
ARCHITECT OR ENGINEER	BECKHART & MILL	TEL. NO.	2567674
ADDRESS	844 W. COLORADO BL.		
CONTRACTOR	NOT SELECTED	TEL. NO.	
ADDRESS			

DESCRIPTION OF WORK

NEW (ADD) ALTER REPAIR DEMOLISH

SQ. FT. SIZE	19600	NO. OF STORIES 2	NO. OF FAMILIES
USE OF STRUCTURE	OFFICES		

Alt. "B"

SIGNATURE OF APPLICANT: Michael Frazier

VALUATION $ 370,000

OK PER ZONING CASES, 66-3-CU-
66-4-V.
HMF

11-9-66 Soils ... placed in footings 11-18 ... Strip storm wall forms ... 11-21-66 place steel Staging ... forming West side of Building

P.C. FEE $	268.50	PMT. FEE $ 537.00

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF PERMITTEE: Armando L. Gonzalez N.

ADDRESS: BECKHART & MILL ARCHITECTS LOS ANGELES

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION: LOCATION FORMS, MATERIALS	12-2-66	Cate
FRAME: FIRE STOPS, BRACING, BOLTS		
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
USE NUMBER CORRECT AND POSTED		
FINAL	7-28-67	Kennedy

JOHN F. LEWIS, PRINCIPAL STRUCTURAL ENGINEER

PLAN CHECK VALIDATION CK. M.O. CASH

PERMIT VALIDATION CK. M.O. CASH

438 AUG 17 23 268.50 M

IAC 12038 OCT 14 1 537.00 M

Curtis

INSPECTOR COPY

12-2-66 Footing

12-9-66 forms into Columns
Steel in wall N. end

12-19-66 Compacting Soil
North End of Bldg inside

12-30-66 standing steel for Colums

1-6-67 post hole for light standards
in parking lot.

1-9-67 (8") Light standards in
Parking lot. ok to pour

1-11-67 steel in Columns ok.
1-13-67 steel in colums will pour Sunday
1-20-67 Stand steel clean Slab
1-23-67 steel placement
Sand in plan change
1-25-67 steel sheet in Earthen
wall Around opening ? ruts
1-26-67 completing steel

2-1-67 steel in colums 2nd floor
Partersell Shear Wall

2-6-67 Alcoa Sprays
Pouring Shearwalls & Colums
2nd floor East
2-10-67 Ready to pour
2-15-67 deck Poured Partial
2-28-67 Pouring Sprays
3-6-67 South ½ 1st floor Slab
Completed
3-8-67 No ½ of 1st floor Slab

3-27-67 Finishing Necessary
Sandblast Walls

4-5-67 Lath & Elect Cabinets Cast

4-10-67 North toilet floors Lath
1st floor ok 2nd floor N.G.

4-12-67 Lath ok Except
Stairs & landing
Cast

4-17-67 Wall footing front South wall Cast

DISCHARGE TIME:
AVERAGE FLOW:
REGULATED BY THIS PERMIT CONSIST OF THE FOLLOWING:
COMPANY VEHICLE CAR WASH
FROM 00.00.00 TO 00.00.00
7870 GAL PER DAY
JURISDICTION
ORD 364
TRUCK REPAIR & EXTERIOR WASHING
SANITARY SEWER AND IN
THIS PERMIT IS SUBJECT TO THE FOLLOWING REQUIREMENTS:
A1 ON-SITE, PUBLIC SEWER
C1 GENERAL CONDITIONS
DISCHARGE DA
THE PLANS APP
THE

1

CITY OF IRWINDALE

APPLICATION FOR BUILDING PERMIT

76A638A CE#803 8-64

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, COUNTY ENGINEER
COLEMAN W. JENKINS, SUP'T OF BUILDING

BUILDING ADDRESS: 5010 N. AZUSA CANYON RD.
LOCALITY: IRWINDALE
NEAREST CROSS ST.: ARROW HWY.
DISTRICT NO.: 5106 | GROUP: F-1 | TYPE CONST.: IV | PROCESSED BY: Coster
STATISTICAL CLASSIFICATION | SEWER MAP BK PG
CLASS NO.: 16 DWELL UNITS:
USE ZONE: A-1 M-1 | MAP NO.: 2407
SPECIAL CONDITIONS: ok Zoning Case 6633 66-4-V
BLDG. SETBACK FROM FRONT PROP. LINE OF: 10' House Corp (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

BLDG. SETBACK FROM SIDE PROP. LINE OF: (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

CORNER CUTOFF YES ☐ NO ☐

SEE REVERSE SIDE FOR SPECIAL APPROVALS

FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 5010 N. AZUSA CANYON RD.
LOT NO.: SEE ATTACHED | BLOCK:
TRACT:
SIZE OF LOT: 2 ga'l, in file | NO. OF BLDGS. NOW ON LOT:
USE OF EXISTING BLDG.:
OWNER: GENERAL TELEPHONE | TEL. NO.:
ADDRESS: 2020 SANTA MONICA BLVD.
CITY: SANTA MONICA
ARCHITECT OR ENGINEER: BECKHART & MILL | TEL NO.: 256 7674
ADDRESS: 844 W. COLORADO BLVD.
CONTRACTOR: MACISSE & MENICE. | TEL NO.:
ADDRESS: | LIC NO:
CITY: | LIC CLASS:

DESCRIPTION OF WORK

NEW (ADD) ALTER REPAIR DEMOLISH
SQ. FT. SIZE: 300 ± | NO. OF STORIES: 1 | NO. OF FAMILIES:
USE OF STRUCTURE: TRUCK WASH (Add'n)
SIGNATURE OF APPLICANT: Armando L. Gonzalez Jr.
VALUATION $: 2,250.00

P.C. FEE $: 7.50 | PMT. FEE $: 15.00

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF PERMITTEE: Armando L. Gonzalez Jr.
ADDRESS: 844 W. COLORADO BLVD L.A.

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION, LOCATION FORMS, MATERIALS		
FRAME, FIRE STOPS, BRACING BOLTS		
FURNACE: LOCATION GAS VENT. DUCTS		
LATH. INT.		
LATH. EXT.		
HOUSE NUMBER CORRECT AND POSTED	8-14-67	Coster
FINAL		

JOHN F. LEWIS, PRINCIPAL STRUCTURAL ENGINEER

PLAN CHECK VALIDATION CK. M.O. CASH
LACo 13096 JAN 27 23 7.50 ▲ m

PERMIT VALIDATION CK. M.O CASH
LACo 13276 FEB 3 1 15.00 m

INSPECTOR COPY

ORDINANCE/CSDLAC EXEMPT

THE INDUSTRIAL WASTE OPERATIONS REGULATED BY THIS
WASTE GENERATING OPERATIONS:
DISCHARGE TIME:
AVERAGE FLOW:

THIS PERMIT IS SUBJEC

MATERIALS LOCATED AT THE FACILITY ABOVE UNDER T

<<<<< AREA/CITY
<<<<< JURISDICTI

003755 103882 3S
5010 N AZUSA CANYON RD
AL HOLLIS. ENVIRON COMPLIANCE
(714) 590-6524

CITY OF IRWINDALE

1

EWER

APPLICATION FOR BUILDING PERMIT

76A638A CE#803 8-64

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, COUNTY ENGINEER
COLEMAN W. JENKINS, SUP'T OF BUILDING

FOR APPLICANT TO FILL IN	
BUILDING ADDRESS	5010 N. AZUSA CANYON ROAD
LOT NO. / BLOCK	
TRACT	Legal in file
SIZE OF LOT / NO. OF BLDGS. NOW ON LOT	9
USE OF EXISTING BLDG.	VEHICLE SERVICE BLDG
OWNER / TEL. NO.	GEN. TELEPHONE CO.
ADDRESS	
CITY	SANTA MONICA, CA.
ARCHITECT OR ~~ENGINEER~~ / TEL. NO.	BECKHART & MILL 254 7141
ADDRESS	844 W. COLORADO BLVD.
CONTRACTOR / TEL. NO.	MOUNTJOY CONST. CO. 359-3275
ADDRESS / LIC NO.	696 FOOTHILL 231604
CITY / LIC CLASS	MONROVIA, CALIF. B-1

DESCRIPTION OF WORK			
NEW (ADD)	ALTER	REPAIR	DEMOLISH
SQ. FT. SIZE: 460	NO. OF STORIES: 1	NO. OF FAMILIES	
USE OF STRUCTURE	TRUCK WASH		
SIGNATURE OF APPLICANT	BECKHART & MILL Armando L. Gonzalez Jr.		
VALUATION $	2000.00		

P.C. FEE $	7.50	PMT. FEE $ 12.50

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF PERMITTEE: For General Telephone Co. William N. Ellmyer III
ADDRESS: Beckhart & Mill-Architects 844 W. Colorado Blvd. Zip 91007

BUILDING ADDRESS	5010 AZUSA CANYON		
LOCALITY	IRWINDALE		
NEAREST CROSS ST.	ARROW HWY		
DISTRICT NO.	GROUP	TYPE CONST.	PROCESSED BY
5.06	F1		Coster
STATISTICAL CLASSIFICATION CLASS NO. 16 DWELL UNITS			SEWER MAP BK ~~Supsa~~ A2 37
USE ZONE	MAP NO. 2407		
A-1	SPECIAL CONDITIONS: Zone ok. Parking ok. Alfred Hanna 1-17-69		

BLDG. SETBACK FROM FRONT PROP. LINE OF _____ (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

BLDG. SETBACK FROM SIDE PROP. LINE OF _____ (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

CORNER CUTOFF YES ☐ NO ☐

SEE REVERSE SIDE FOR SPECIAL APPROVALS

3-24-69 Deposits ordered
grouting other on Cost
3-26-69 Wall ok & grouted.
5-20-69 Roof grouting Cost
6-6-69 Roof on Truckwash Cost

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION, LOCATION FORMS, MATERIALS	3-19-69	Coste
FRAME, FIRE STOPS, BRACING BOLTS	5-23-69	Coste
FURNACE; LOCATION GAS VENT. DUCTS		
LATH. INT.		
LATH. EXT.		
HOUSE NUMBER CORRECT AND POSTED		
FINAL	11-16	Coste

JOHN F. LEWIS, PRINCIPAL STRUCTURAL ENGINEER

PLAN CHECK VALIDATION CK M.O. CASH _

LAC021408 JAN1723 7.50 A M

PERMIT VALIDATION CK M.O. CASH

LAC021438 FEB 31 12.50 M

LAC012058 OCT14 1 50.00

INSPECTOR COPY

	NOT REQUIRED	RECEIVED OR REQUIRED
WATER CERTIFICATE		
ROAD DEPT. APPROVAL		
HEALTH DEPT. APPROVAL		
FIRE DEPT. APPROVAL		
GRADING APPROVAL		
GEOLOGICAL APPROVAL		
PEDESTRIAN PROTECTION (FENCE) (CANOPY)		
SPECIAL INSPECTION ON (CONC.) (MASRY.) (WELDG.)		

CONSTRUCTION LENDER GENERAL TELEPHONE CO.

BRANCH 2020 SANTAMONICA BLVD

ADDRESS SANTA MONICA, CALIF.

TO BE FILLED IN BY PERMITTEE

INDUSTRIAL WASTE APPROVAL

FLOOR DRAINS —

FLOOR SINKS —

GREASE INT. —

S. A. INT. NOTT. #1250 CONNECTION

MISC. 1 - 1 - WITH BASKET

LEO J COLLINS 1-21-69

CHECKER DATE

INDUSTRIAL WASTE OPERATIONS REGULATED BY THIS PERMIT CONSIST OF THE FOLLOWING:
STE GENERATING OPERATIONS: COMPANY VEHICLE CAR WASH
DISCHARGE TIME: FROM 00.00.00 TO 00.00.00 DISCHARGE DAYS
AVERAGE FLOW: 7870 GAL PER DAY
PERMIT IS SUBJECT TO THE FOLLOWING REQU

<<<<< AREA/CITY JURISDICTION | ORD 364 TRUCK REPAIR & EXTERIOR WASHING | <<<<< ORDINANCE/MUN INDUSTRY

1

CITY OF IRWINDALE

APPLICATION FOR BUILDING PERMIT

76A538A CEM803 8-64

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, COUNTY ENGINEER
COLEMAN W. JENKINS, SUP'T OF BUILDING

BUILDING ADDRESS: 5010 AZUSA CANYON
LOCALITY: IRWINDALE
NEAREST CROSS ST.: ARROW HWY
DISTRICT NO.: 5,06 | GROUP: F-2 | TYPE CONST.: | PROCESSED BY: COSTER
STATISTICAL CLASSIFICATION | SEWER MAP BK A PG 57
CLASS NO. 16 DWELL UNITS
USE ZONE: M-1 | MAP NO. 2407 | SPECIAL CONDITIONS: ZONE OK. PARKING OK
alfred Herrera 1-17-69

BLDG. SETBACK FROM FRONT PROP. LINE OF (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

BLDG. SETBACK FROM SIDE PROP. LINE OF (STREET)

TYPE OF HIGHWAY	EXISTING WIDTH	SETBACK FROM C.L.	HIGHWAY + YARD = TOTAL
			+ =

CORNER CUTOFF YES ☐ NO ☐

FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 5010 N. AZUSA CANYON RD.
LOT NO. | BLOCK
TRACT: Legal infile
SIZE OF LOT | NO. OF BLDGS. NOW ON LOT: 2
USE OF EXISTING BLDG.: VEHICLE SERVICE BLDG.
OWNER: GEN. TELEPHONE CO. | TEL. NO.
ADDRESS
CITY: SANTA MONICA, CA.
ARCHITECT OR ENGINEER: BECKHART & MILL | TEL NO. 274-7141
ADDRESS: 844 W. COLORADO BLVD.
CONTRACTOR: MOUNROT CONST. CO. | TEL NO 359-3275
ADDRESS: 696 W FOOTHILL | LIC NO 231604
CITY: MONROVIA, CALIF. | LIC CLASS B-1

DESCRIPTION OF WORK

NEW (ADD) ALTER REPAIR DEMOLISH
SQ. FT. SIZE: 1600 | NO. OF STORIES: 1 | NO. OF FAMILIES
USE OF STRUCTURE: OFFICES, SHOP, ETC.
BECKHART & MILL ARCHITECTS
SIGNATURE OF APPLICANT: Armando L. Corrales Jr.
VALUATION $45,000.00

P.C. FEE $ 117.60 | PMT. FEE $ 196.00

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF PERMITTEE: For General Telephone Co. William N. Ellinger III
ADDRESS: Beckhart & Mill Architects 844 W. Colorado Blvd Los 90041

SEE REVERSE SIDE FOR SPECIAL APPROVALS

3-7-69 Stock rm Shelves
3-12-69 Four (4) Collums Set
3-21-69 Roof Framing Ok
4-4-69 Roof Nailing Ok. Ca
4-14-69 N.C. Coster

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION, LOCATION FORMS, MATERIALS	3-3-69	Coster
FRAME, FIRE STOPS, BRACING BOLTS	4-23-69	Coster
FURNACE: LOCATION GAS VENT. DUCTS		
LATH. INT.	5-2-69	Coster
LATH. EXT.	5-2-69	Coster
HOUSE NUMBER CORRECT AND POSTED		
FINAL	11-7-69	Coster

JOHN F. LEWIS, PRINCIPAL STRUCTURAL ENGINEER

PLAN CHECK VALIDATION (CK.) M.O. CASH
21398 JAN 17 23 117.60

PERMIT VALIDATION (CK.) M.O. CASH
IAC 21448 FEB 3 1 196.00

	NOT REQUIRED	RECEIVED OR REQUIRED
WATER CERTIFICATE		
ROAD DEPT. APPROVAL		
HEALTH DEPT. APPROVAL		
FIRE DEPT. APPROVAL		
GRADING APPROVAL		
GEOLOGICAL APPROVAL		
PEDESTRIAN PROTECTION (FENCE) (CANOPY)		
SPECIAL INSPECTION ON (CONC.) (MASRY.) (WELDG.)		

CONSTRUCTION LENDER GENERAL TELEPHONE COMPANY

BRANCH 2020 SANTA MONICA BLVD.

ADDRESS SANTA MONICA, CALIF.

TO BE FILLED IN BY PERMITTEE

5-5-69 24" Wall except Front Side
1 in mobile Room Gate

5-14-69 Fire dampers on Job
Last Gate in wall Main Gate

DEPARTMENT OF COUNTY ENGINEER
INDUSTRIAL WASTE DIVISION
COUNTY OF LOS ANGELES

CLEARANCE
FOR DOMESTIC WASTES ONLY

Restrictions: Fixtures and waste piping for the collection or disposal of liquid wastes shall be restricted to those required for the disposal of domestic or sanitary sewage from such facilities as rest rooms, change rooms, medical laboratories, photographic laboratories, serving counters for food or drinks; or wash basins or drinking fountains installed in any location within the structure.

By Leo Iglesias Date 1-21-69

WASTE GENERATING OPERATIONS: COMPANY VEHICLE CAR WASH
DISCHARGE TIME: FROM 00.00.00 TO 00.00.00
AVERAGE FLOW: 7870 GAL PER DAY

<<<<< AREA/CITY
<<<<< JURISDICTION | ORD 364 TRUCK REPAIR & EXTERIOR WASHING

INDUSTRIAL WASTE OPERATIONS REGULATED BY THIS PERMIT CONSIST OF THE FOLLOWING:

THIS PERMIT IS SUBJECT TO THE FOLLOWING RE

A1 ON-SITE, PUBLIC
C1 GENERAL

CITY OF IRWINDALE

1

76A638A CE #803 2-63

APPLICATION FOR BUILDING PERMIT

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION
JOHN A. LAMBIE, COUNTY ENGINEER
WILLIAM A. JENSEN, SUP'T OF BUILDING

BUILDING ADDRESS: 5010 N. AZUSA CANYON RD.
LOCALITY: IRWINDALE
NEAREST CROSS ST.: ARROW HWY
DISTRICT NO.: 5.06 | GROUP: F-1 | TYPE CONST.: IV | PROCESSED BY: Coster
STATISTICAL CLASSIFICATION | SEWER MAP BK PG
CLASS. NO.: 16 DWELL. UNITS:
WATER CERTIFICATE: NOT REQUIRED ☐ RECEIVED ☐
MAP NO.: 2407 HIGHWAY (CIRCLE) STATE MAJOR SECOND. LOCAL
USE ZONE: M-1-M-1 | SPECIAL CONDITIONS

BUILDING SETBACK	YARD	HWY	STREET NAME	EXIST. WIDTH
FRONT P. L.	10'		AZUSA CANYON	
SIDE P. L.				

OK PER ZONING
CASES 66-3-CU
66-4-V.
NMF

FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 5010 N. AZUSA CANYON RD.
LOT NO.: SEE ATTACHED | BLOCK:
TRACT:
SIZE OF LOT: | NO. OF BLDGS. NOW ON LOT:
USE OF EXISTING BLDG.:
OWNER: GENERAL TELEPHONE | TEL. NO.:
ADDRESS: 2020 SANTA MONICA BLVD
ARCHITECT OR ENGINEER: BECKHART & MILL | TEL. NO.: 256-7614
ADDRESS: 844 W. COLORADO BLVD.
CONTRACTOR: NOT SELECTED | TEL. NO.:
ADDRESS:

DESCRIPTION OF WORK

(NEW) ADD ALTER REPAIR DEMOLISH
SQ. FT. SIZE: 6750 | NO. OF STORIES: 1 | NO. OF FAMILIES:
USE OF STRUCTURE: TRUCK WASH

SIGNATURE OF APPLICANT: Michael Frazier
VALUATION $: 13,000

P.C. FEE $: 25.00 | PMT. FEE $: 50.00

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION. I CERTIFY THAT IN DOING THE WORK AUTHORIZED HEREBY I WILL NOT EMPLOY ANY PERSON IN VIOLATION OF THE LABOR CODE OF THE STATE OF CALIFORNIA RELATING TO WORKMEN'S COMPENSATION INSURANCE.

SIGNATURE OF PERMITTEE: Armando C. Gonzalez Jr.
ADDRESS: BECKHART & MILL ARCHITECTS LOS ANGELES

APPROVALS	DATE	INSPECTOR'S SIGNATURE
FOUNDATION: LOCATION FORMS, MATERIALS		
FRAME: FIRE STOPS, BRACING, BOLTS	8-1-67	Coster
FURNACE: LOCATION, GAS VENT, DUCTS		
LATH, INT.		
LATH, EXT.		
HOUSE NUMBER CORRECT AND POSTED	8-14-67	Coster
FINAL		

JOHN F. LEWIS, PRINCIPAL STRUCTURAL ENGINEER

PLAN CHECK VALIDATION CK. M.O. CASH —

PERMIT VALIDATION CK. M.O. CASH

LACo 1145 08 AUG 17 23 25.00 A M

LACo 1205 08 OCT 14 1 50.00 S

INSPECTOR COPY

FOR EXPLANATORY

TOTAL FEE | PERMIT FEE | ISSUANCE FEE

OR BUILDING PERMIT

ING AND SAFETY

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION
P. O. BOX 1460
ALHAMBRA, CA 91802-1460 TEL: (818) 458-3517

INDUSTRIAL WASTE DISPOSAL PERMIT
OPERATING PERMIT-LOCAL SEWER

city

OFFICE COPY

PERMIT NO: 00000913
EFFECTIVE DATE: 07/06/87
EXPIRATION DATE:

PERMISSION IS HEREBY GRANTED TO:

GENERAL TELEPHONE OF CALIF. ATTN ENVIRONMENTAL COMPLIANCE PO BOX 725 CHINO, CA 91708	<<<<< PERMITTEE	003755 I03882 3S 5010 N AZUSA CANYON RD AL HOLLIS, ENVIRON COMPLIANCE (714) 590-6524	<<<<< FILE NUMBER/AREA <<<<< FACILITY ADDRESS <<<<< PRIMARY CONTACT <<<<< CONTACT PHONE

TO TREAT/STORE/DISPOSE INDUSTRIAL WASTE MATERIALS LOCATED AT THE FACILITY ABOVE UNDER THE SANITARY SEWER AND INDUSTRIAL WASTE ORDINANCE FOR:

CITY OF IRWINDALE LOCAL ORDINANCE/CSDLAC EXEMPT	<<<<< AREA/CITY <<<<< JURISDICTION	ORD 364 TRUCK REPAIR & EXTERIOR WASHING	<<<<< ORDINANCE/MUN COD <<<<< INDUSTRY

GENERAL CONDITIONS & LIMITATIONS

THE PLANS APPROVED IN CONJUNCTION WITH THIS PERMIT AND ANY PLANS REFERENCED HEREIN ARE MADE PART OF THIS PERMIT. THE INDUSTRIAL WASTE ENGINEERING INSPECTOR IN YOUR AREA WILL EXPLAIN THE PERMIT CONDITIONS, AND MAKE PERIODIC INSPECTIONS OF YOUR OPERATIONS. THIS PERMIT IS SUBJECT TO ANNUAL INDUSTRIAL WASTE INSPECTION FEES.

T. A. TIDEMANSON
DIRECTOR OF PUBLIC WORKS

BY: _____
WASTE MANAGEMENT DIVISION

DATE OF ISSUANCE: 07/27/93

38-003 DPW 12/86

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION
P. O. BOX 1460
ALHAMBRA, CA 91802-1460 TEL: (818) 458-3517

INDUSTRIAL WASTE DISPOSAL PERMIT
OPERATING PERMIT-LOCAL SEWER

PERMIT NO: 00000913
EFFECTIVE DATE: 07/06/87
EXPIRATION DATE:

PERMISSION IS HEREBY GRANTED TO:

GENERAL TELEPHONE OF CALIF. ATTN ENVIRONMENTAL COMPLIANCE PO BOX 725 CHINO, CA 91708	<<<<< PERMITTEE	003755 I03882 3S 5010 N AZUSA CANYON RD AL HOLLIS, ENVIRON COMPLIANCE (714) 590-6524	<<<<< FILE NUMBER/AREA <<<<< FACILITY ADDRESS <<<<< PRIMARY CONTACT <<<<< CONTACT PHONE

TO TREAT/STORE/DISPOSE INDUSTRIAL WASTE MATERIALS LOCATED AT THE FACILITY ABOVE UNDER THE SANITARY SEWER AND INDUSTRIAL WASTE ORDINANCE FOR:

CITY OF IRWINDALE LOCAL ORDINANCE/CSDLAC EXEMPT	<<<<< AREA/CITY <<<<< JURISDICTION	ORD 364 TRUCK REPAIR & EXTERIOR WASHING	<<<<< ORDINANCE/MUN COD <<<<< INDUSTRY

PUBLIC WORKS

POST THIS AT YOUR LOCATION

5010 Azusa C

PERMIT

APPLICATION FOR BUILDING PERMIT

COUNTY OF LOS ANGELES — BUILDING AND SAFETY

1

INSPECTOR COPY

WORKER'S COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.)

Policy No. 044-1778/-00 Company State Fund

☑ Certified copy is hereby furnished.

☐ Certified copy is filed with the county building inspection department.

Date 11/20/00 Applicant L. Rodriguez

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws.

Date _____ Applicant _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed underprovisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Number 643004 Lic. Class C45

Contractor Swain Sign Date 11/20/00

☐ I am exempt under Sec. _____

B.&P.C. for this reason _____

_____ Date: _____

Signature _____

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work and the structure is not intended or offered for sale (Section 7044, Business and Professions Code.)

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code.)

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.)

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state under penalty of perjury that the above information is correct. I agree to comply with all county ordinances and State laws relating to building construction, and hereby authorize representatives of this County to enter upon the above-mentioned property for inspection purposes.

_____ _____

Signature of Applicant or Agent — Date

20-0010 B&S DPW Rev. 8/95

FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 5010 AZUSA CANYON RD
CITY: IRWindale ZIP: 91706
SIZE OF LOT: NO. OF BLDGS. NOW ON LOT:
TRACT: BLOCK: LOT NO.:
ASSESSOR MAP BOOK: PAGE: PARCEL:
OWNER: VERIZON TEL NO.:
ADDRESS:
CITY: IRWindale ZIP: 91706
ARCHITECT OR ENGINEER: TEL NO.:
ADDRESS:
CONTRACTOR: Swain Sign TEL NO.: 909) 460-2510
ADDRESS: 1384 E Fifth St LIC. NO.: 643004
CITY: ONTARIO CA, 91764 LIC. CLASS: C45
SQ. FT. SIZE: NO. OF STORIES: NO. OF FAMILIES:

NEW ☐ ADD ☐ ALTER ☐ REPAIR ☐ DEMOL ☐ URM ☐

DESCRIPTION OF WORK: PUT A VERIZON SIGN

USE OF EXISTING BLDG.:

APPLICANT (PRINT) Lionel Rodriguez TEL NO. 909) 460-2510
ADDRESS 1384 E. 5th St ONTARIO

WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?
YES ☐ NO ☐

WILL THE INTENDED USE OF THE BUIDLING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) SEE PERMITTING CHECKLIST FOR GUIDELINES.
YES ☐ NO ☐

I HAVE READ THE HAZARDOUS MATERIALS INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE LOS ANGELES COUNTY CODE, TITLE 2, CHAPTER 2.20 SECTIONS 2.20.100 THROUGH 2.20.140 CONCERNING HAZARDOUS MATERIALS REPORTING AND FOR OBTAINING A PERMIT FROM THE SCAQMD.

OWNER OR AGENT 128.40

P.C. FEE 39.50	PERMIT FEE 128.90
	ISSUANCE FEE 39.60
INVESTIGATION FEE	TOTAL FEE 168.50

SEE REVERSE FOR EXPLANATORY [illegible]AGE

BUILDING ADDRESS: 5010 AZUSA CYN. RD. IRWINDALE
LOCALITY:
NEAREST CROSS ST.:
USE ZONE: MAP NO.:
SPECIAL CONDITIONS:
WITHIN 1000 FT. OF SCHOOL? YES ☐ NO ☐

DISTRICT	GROUP	TYPE CONST.	FIRE ZONE	PROCESSED BY
5.06				EL.

STATISTICAL CLASSIFICATION: CLASS NO. _____ DWELL UNITS _____ APT: CONDO:

REQUIRED SET BACK	YARD	HWY	TOTAL SETBACK FROM PROP LINE	EXIST WIDTH
FRONT P.L.				
SIDE P.L.				

SEWER MAP BK PG

VALUATION $ 1,500

$

LDMA P/C #

LDMA Perm #

FINAL DATE 1/4/01

FINAL BY

VALIDATION

P/C #23/1734
$128.40
11/20/00

#1774

PLANS TO APPLICANT

To.		Returned		Approved
No.	Date	No.	Date	

Approvals	Required		Date Received or Approved
	Yes	No	
Water Certificate			
Health Department			
Fire Department			
Grading			
Geological			
Pedestrian Protection (Fence) (Canopy)			
Special Inspection (Conc.) (Masonry) (Welding)			
Lot Drainage			
Parking			

Approvals	Date	Inspector's Signature
Location (Setback & Yards)		
Foundations		
Stab		
Frame		
Energy Insulation		
Lath/Drywall-Interior		
Lath-Exterior		
House Number-Correct & Posted		
Final Enter on Front		
Certificate of Occupancy Issued		

INSPECTOR'S NOTES

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason. (Sec. 7031.5) *Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9) (commencing with Section 7000 of Division 3 of the Business and Professions Code) or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).:*

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044) *Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.*

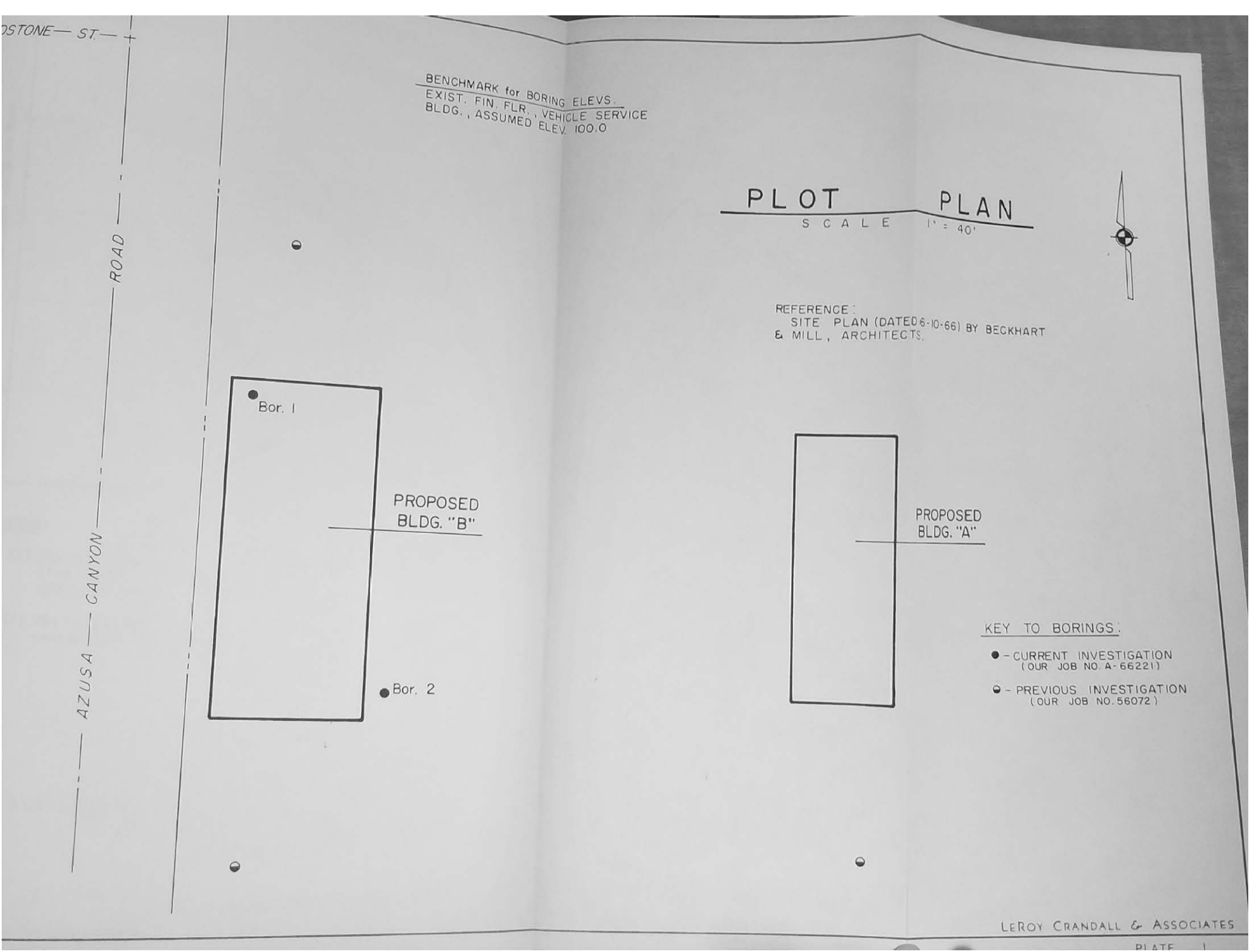
☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044) *Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) Licensed pursuant to the Contractor's License laws.*

☐ I am exempt under Sec. _____, B. & P.C. for this reason _____

Date _____ Owner _____

INSPECTOR'S NOTES

REPORT OF SUPPLEMENTARY FOUNDATION INVESTIGATION
PROPOSED IRWINDALE PLANT FACILITIES
5010 NORTH AZUSA CANYON ROAD
IRWINDALE, CALIFORNIA
FOR THE
GENERAL TELEPHONE COMPANY
(OUR JOB NO. A-66221)



LEROY CRANDALL & ASSOCIATES

PLATE 1

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUILDING AND SAFETY / LAND DEVELOPMENT

CITY OF IRWINDALE # 0506
5050 IRWINDALE
IRWINDALE CA 91706
PHONE: (626) 430-2205 EXT:

BUILDING PERMIT
ALTERATION/REPAIR
BL 0506 1312110052

LEGAL ID:
ON FILE

ASSESSOR INFORMATION NUMBER:
8417-025-800

TENANT:
VERIZON

OWNER: TEL. NO:
VERIZON COMMUNICATIONS -
1 VERIZON WAY
BASKING RDG NJ 07920

APPLICANT: TEL. NO:
PELLEGRINI, STEPHEN (619) 760-7663-
7922 MIRAMAR ROAD B
SAN DIEGO CA 92126

CONTRACTOR: TEL. NO:
NATIONS ROOF (619) 760-7663-
7922 MIRANAR RD #B LIC. NO
SAN DIEGO CA 92126 887328

ARCHITECT OR ENGINEER: TEL. NO:
-
LIC. NO:

MAP NO: SEWER MAP BOOK: PAGE: FIRE ZONE: CMP:
3 00

NO. OF FAMILIES: DWELLING UNITS: APT/COND: STAT CLASS:
NO 22

AIR QUALITY:	SCHOOL WITHIN 1000 FEET	HAZARDOUS MATERIALS
NO	NO	NO

	SQ. FT	NO. OF STORIES	CONST TYPE
STRUCTURE:	11400		V

EXIST BLDG USE: OFFIC USE ZONE: M-1
EXIST OCC GRP:

BLDGS. NOW ON LOT: VALUATION:
1 46,280

FEES PAID

FEE DESCRIPTION:	QUANTITY:	UOM:	AMOUNT:
AA BLDG PERMIT ISSUANCE			56.60
AB STATE GREEN BLDG FEE	46280.00	VAL	2.00
AE STRONG MOTION OTHER	46280.00	VAL	9.70
D1 PLANCHECK W/O EN-HC	46280.00	VAL	1,315.80
D2 PERMIT W/O EN-HC	46280.00	VAL	1,548.00
	TOTAL FEES		2,932.10

west 1/3 shell bldg
4-1-14 MA
Middle 1/3
4-3-14 MA

REPORT ID: DPR261 ROUTE TO: BS0506

BUILDING ADDRESS:
5010 AZUSA CANYON RD
IRWD CA 91706
NEAREST CROSS STREET: ARROW HWY
THOMAS PAGE: 598 GRID: E3 LOCALITY: IRWINDALE

ISSUED ON: PROCESSED BY:
12/11/13 KI

FINAL DATE FINAL BY: CODE:
7-7-14 MA

DESCRIPTION OF WORK
REROOF COMMERCIAL BLDG: TEAR OFF (E) BUILT-UP ROOF; INSTALL (N) DENS DECKING & POLYISOCYANURATE INSULATION & .60 MIL TPO

SPECIAL CONDITIONS:
CRRC # 0628-0002

APPROVALS	DATE	INSPECTOR SIGNATURE
LOCATION AND SETBACKS		
SOILS ENGINEER APPROVAL		
FOUNDATION/TRENCH FORMS		
SLAB/UNDER FLOOR		
RAISED FLOOR FRAMING		
UNDERFLOOR INSULATION		
FLOOR SHEATHING		
ROOF SHEATHING	4-7-14	MA
SHEAR PANELS		
FRAME INSPECTION		
FIRE SPRINKLER HANGERS		
INSULATION/WEATHER STRIP		
INTERIOR LATH/DRYWALL		
EXTERIOR LATH		
RATED FLOOR/CEIL ASSEM.		
RATED WALL ASSEMBLIES		
RATED SHAFTS/OPENINGS		
T-BAR CEILINGS		
LOT DRAINAGE		

OWNER-BUILDER DECLARATION

by affirm under penalty of perjury that I am exempt from ontractors' State License Law for the reason(s) indicated by the checkmark(s) I have placed next to the applicable (Section 7031.5, Business and Professions Code): Any county that requires a permit to construct, alter, improve, sh, or repair any structure, prior to its issuance, also s the applicant for the permit to file a signed statement or she is licensed pursuant to the provisions of the tors' State License Law (Chapter 9 (commencing with 7000) of Division 3 of the Business and Professions r that he or she is exempt from licensure and the basis alleged exemption. Any violation of Section 7031.5 by plicant for a permit subjects the applicant to a civil of not more than five hundred dollars ($500).):

owner of the property, or my employees with wages as e compensation, will do (✓) all of or (_) portions of the nd the structure is not intended or offered for sale 7044, Business and Professions Code: The tors' State License Law does not apply to an owner of who, through employees' or personal effort, builds or s the property, provided that the improvements are not d or offered for sale. If, however, the building or ement is sold within one year of completion, the Owner- will have the burden of proving that it was not built or ed for the purpose of sale.).

s owner of the property, am exclusively contracting with ed Contractors to construct the project (Section 7044, ess and Professions Code: The Contractors' State License does not apply to an owner of property who builds or ves thereon, and who contracts for the projects with a ed Contractor pursuant to the Contractors' State License

am exempt from licensure under the Contractors' State nse Law for the following reason:

my signature below I acknowledge that, except for my sonal residence in which I must have resided for at least year prior to completion of the improvements covered by permit, I cannot legally sell a structure that I have built as an er-builder if it has not been constructed in its entirety by nsed contractors. I understand that a copy of the applicable , Section 7044 of the Business and Professions Code, is ilable upon request when this application is submitted or at following Web site: http://www.leginfo.ca.gov/calaw.html.

te: _____

gnature of Property Owner or Authorized Agent

LICENSED CONTRACTOR DECLARATION

I hereby affirm under penalty of perjury that I am [illegible] provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Class ON License No. FILE

Date 12/11/13 Contractor Signature [signature]

WORKERS' COMPENSATION DECLARATION

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS ($100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

I hereby affirm under penalty of perjury one of the following declarations:

___ I have and will maintain a certificate of consent to self-insure for workers' compensation, issued by the Director of Industrial Relations as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

Policy No. _____

/H I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier CNI FILE Policy Number Expiration Date

Name of Agent Phone Number

___ I certify that, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that, if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions

[signature] 12/11/13

Signature of Applicant Date

LOBBYIST ORDINANCE CERTIFICATION

Complete this section for permits in Unincorporated Los Angeles County only

This is to certify that I, as permit applicant, am familiar with the requirements of Los Angeles County Code Chapter 2.160 et seq., (relating to the Los Angeles County Lobbyist Ordinance) and that all persons acting on behalf of myself complied and will continue to comply therewith through the application process.

Applicant (Print Name) Applicant Signature

Company Name Date

Will the applicant or future [illegible] material or a mixture containing a hazardous [illegible] greater than the amount specified on the hazardous [illegible] information guide?

Yes ☐ No ☐

Will the intended use of the building by the applicant or future building occupant require a permit for construction or modification from the South Coast Air Quality Management District (SCAQMD)? See permitting checklist for guidelines.

Yes ☐ No ☐

I have read the hazardous materials information guide and the SCAQMD permitting checklist, I understand my requirements under the Los Angeles County Code Title 2, Chapter 220 Sections 220.100 through 220.140 concerning hazardous material reporting and for obtaining a permit from the SCAQMD.

ASBESTOS NOTIFICATION

☐ Notification letter sent to AQMD and/or EPA

☐ I declare that notification of asbestos removal is not applicable to addressed project.

DECLARATION REGARDING CONSTRUCTION LENDING AGENCY

I hereby affirm under penalty of perjury that there is a Construction lending agency for the performance of the work for which this permit is issued (Section 3097, Civil Code).

Lender's Name

Lender's Address

By my signature below, I certify to each of the following:
I am the property owner or authorized to act on the property owner's behalf.
I have read this application and the information I have provided is correct.
I agree to comply with all applicable city and county ordinances and state laws relating to building construction.
I authorize representatives of this county to enter the above-identified property for inspection purposes.

Signature of Property Owner or Authorized Agent

[signature]

Date 12/11/13

APPLICATION FOR BUILDING PERMIT

CITY OF IRWINDALE

COUNTY OF LOS ANGELES

BUILDING AND SAFETY

1

WORKER'S COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.)

Policy No. 3906465 Company Republic Indemnity

☐ Certified copy is hereby furnished.

☐ Certified copy is filed with the county building inspection department.

Date 1/31/95 Applicant Regina Ranier

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws.

Date _____ Applicant _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed underprovisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Number 409233 Lic. Class C-39

Contractor Wm. H. Larey + Assocs. Date 1/31/95

☐ I am exempt under Sec. _____

B.&P.C. for this reason _____

_____ Date: _____

Signature _____

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work and the structure is not intended or offered for sale (Section 7044, Business and Professions Code.)

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code.)

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.)

Lender's Name n/a

Lender's Address _____

I certify that I have read this application and state under penalty of perjury that the above information is correct. I agree to comply with all county ordinances and State laws relating to building construction, and hereby authorize representatives of this County to enter upon the above-mentioned property for inspection purposes.

Regina Ranier 1/31/95

Date

FOR APPLICANT TO FILL IN

BUILDING ADDRESS 5000 Azusa Canyon

CITY Irwindale ZIP

SIZE OF LOT NO. OF BLDGS. NOW ON LOT

TRACT BLOCK LOT NO.

ASSESSOR MAP BOOK PAGE PARCEL

OWNER GTE TEL NO.

ADDRESS S/A/A

CITY ZIP

ARCHITECT OR ENGINEER TEL NO.

ADDRESS

CONTRACTOR William H. Larey + Assocs. TEL NO. (714) 973-6233

ADDRESS 1220 S. Wright St. LIC. NO. 409233

CITY Santa Ana LIC. CLASS C-39

SQ. FT. SIZE NO. OF STORIES NO. OF FAMILIES

DESCRIPTION OF WORK partial reroof of bldg. 106 ft

USE OF EXISTING BLDG.

NEW ☐ ADD ☐ ALTER ☐ REPAIR ☐ DEMOL ☐ URM ☐

APPLICANT (PRINT) William H. Larey + Assocs. TEL NO. (714) 973-6233

ADDRESS 1220 S. Wright St. Santa Ana, CA 92705

WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

YES ☐ NO ☐

WILL THE INTENDED USE OF THE BUIDLING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) SEE PERMITTING CHECKLIST FOR GUIDELINES

YES ☐ NO ☐

I HAVE READ THE HAZARDOUS MATERIALS INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE LOS ANGELES COUNTY CODE, TITLE 2, CHAPTER 2.20 SECTIONS 2.20.100 THROUGH 2.20.140 CONCERNING HAZARDOUS MATERIALS REPORTING AND FOR OBTAINING A PERMIT FROM THE SCAQMD.

_____

OWNER OR AGENT

P.C. FEE	59.06	PERMIT FEE	675.27
		ISSUANCE FEE	37.15
INVESTIGATION FEE		TOTAL FEE	712.42

BUILDING ADDRESS 5010 Azusa Cyn Rd

LOCALITY IRWINDALE

NEAREST CROSS ST. Arrow Hwy

USE ZONE M1 MAP NO.

SPECIAL CONDITIONS

WITHIN 1000 FT. OF SCHOOL? YES ☐ NO ☑

DISTRICT	GROUP	TYPE CONST.	FIRE ZONE	PROCESSED BY
5.06	B2	V	3	TARANGO

STATISTICAL CLASSIFICATION APT CONDO

CLASS NO. _____ DWELL UNITS _____

REQUIRED SET BACK	YARD	HWY	TOTAL SETBACK FROM PROP LINE	EXIST WIDTH
FRONT P.L.				
SIDE P.L.				

SEWER MAP BK PG

VALUATION $ 27,000.00

$

LDMA P/C #

LDMA Perm #

FINAL DATE 8/15/95

FINAL BY

VALIDATION

Business License new rept

Expiration Date 6/30/95

INSPECTOR COPY

Certified copy is filed with the

copy furnished

6 A638A 20-0010 DPW 12/92

PLANS TO APPLICANT

To:		Returned		Approved
No.	Date	No.	Date	

Approvals	Required		Date Received or Approved
	Yes	No	
Water Certificate			
Health Department			
Fire Department			
Grading			
Geological			
Pedestrian Protection (Fence) (Canopy)			
Special Inspection (Conc.) (Masonry) (Welding)			
Lot Drainage			
Parking			

Approvals	Date	Inspector's Signature
Location (Setback & Yards)		
Foundations		
Slab		
Frame		
Energy Insulation		
Lath/Drywall - Interior		
Lath - Exterior		
House Number - Correct & Posted		
Final - Enter on Front		
Certificate of Occupancy Issued		

INSPECTOR'S NOTES

2-2-95 Tom

2-3-95 Tom

2-6-95 Tom

2-7-95 Tom

I hereby affirm that I am exempt from ... License Law for the following reason: ... Business and Professions Code: Any city ... requires a permit to construct, alter, impr... or repair any structure, prior to its issuance, ... the applicant for such permit to file a signed ... that he is licensed pursuant to the provisions ... Contractor's License Law (Chapter 9) (commenc... Section 7000 of Division 3 of the Business and Profe... Code) or that he is exempt therefrom and the basis ... the alleged exemption. Any violation of Section 700... by any applicant for a permit subjects the applicant to ... a civil penalty of not more than five hundred dollars ($500).:

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044) *Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.*

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044) *Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Laws.*

☐ I am exempt under Sec. _____, B.&P.C. for this reason _____

Date _____ Owner _____

INSPECTOR'S NOTES

WORKER'S ... I hereby affirm that ... a certificate of ... Copy thereof (Sec. ... Policy No. WC ... ☐ Certified copy is ... ☐ Certified copy is ... department. Date 6-2-95

APPLICATION FOR BUILDING PERMIT

COUNTY OF LOS ANGELES — BUILDING AND SAFETY

CITY OF IRWINDALE

WORKER'S COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.)

Policy No. WC10014699 Company NAICC

☐ Certified copy is hereby furnished.

☐ Certified copy is filed with the county building inspection department.

Date 6-2-95 Applicant [signature]

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws.

Date _____ Applicant _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed underprovisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Number 457717 Lic. Class CB

Contractor Respectkeray Date 6-2-95

☐ I am exempt under Sec. _____

B.&P.C. for this reason _____

Date: _____

Signature _____

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work and the structure is not intended or offered for sale (Section 7044, Business and Professions Code.)

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code.)

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.)

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state under penalty of perjury that the above information is correct. I agree to comply with all county ordinances and State laws relating to building construction, and hereby authorize representatives of this County to enter upon the above-mentioned property for inspection purposes.

[signature] Date 6/1/95

FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 5010 Azusa Cyn Rd

CITY: Irwindale ZIP:

SIZE OF LOT: NO. OF BLDGS. NOW ON LOT:

TRACT: BLOCK: LOT NO.:

ASSESSOR MAP BOOK: PAGE: PARCEL:

OWNER: GTE TEL NO.:

ADDRESS: 5010 Azusa Cyn Rd

CITY: Irwindale ZIP:

ARCHITECT OR ENGINEER: JEAN AMADOR TEL NO.: (818) 865-9611

ADDRESS: 32133 W. LINDERO CYN. RD. WESTLAKE VILLAGE, CA.

CONTRACTOR: TEL NO.:

ADDRESS: Owner LIC. NO.:

CITY: LIC. CLASS:

SQ. FT. SIZE: 1730 NO. OF STORIES: 1 NO. OF FAMILIES:

DESCRIPTION OF WORK: Tenant Improvement

Coin Center Repair

2 Storage Area

USE OF EXISTING BLDG.

NEW ☐ ADD ☐ ALTER ☒ REPAIR ☐ DEMOL ☐ URM ☐

APPLICANT (PRINT): JEAN AMADOR TEL NO.: 818 865-9611

ADDRESS: 32133 W. LINDERO CYN. RD, WLV 91361

WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

YES ☐ NO ☐

WILL THE INTENDED USE OF THE BUIDLING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) SEE PERMITTING CHECKLIST FOR GUIDELINES

YES ☐ NO ☐

I HAVE READ THE HAZARDOUS MATERIALS INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE LOS ANGELES COUNTY CODE, TITLE 2, CHAPTER 2.20 SECTIONS 2.20.100 THROUGH 2.20.140 CONCERNING HAZARDOUS MATERIALS REPORTING AND FOR OBTAINING A PERMIT FROM THE SCAQMD.

OWNER OR AGENT

P.C. FEE	875.04	PERMIT FEE	1050.72
		ISSUANCE FEE	37.15
INVESTIGATION FEE		TOTAL FEE	1087.87

BUILDING ADDRESS: 5010 Azusa Cyn Rd.

LOCALITY: Irwindale

NEAREST CROSS ST.:

USE ZONE: M2 MAP NO.:

SPECIAL CONDITIONS: IR95184-03 CMP ϕ8

WITHIN 1000 FT. OF SCHOOL? YES ☐ NO ☐

DISTRICT	GROUP	TYPE CONST.	FIRE ZONE	PROCESSED BY
5.06	B2	0N	3	X

STATISTICAL CLASSIFICATION: CLASS NO. 22 DWELL UNITS: _____ APT: CONDO:

REQUIRED SET BACK	YARD	HWY.	TOTAL SETBACK FROM PROP LINE	EXIST WIDTH
FRONT P.L.				
SIDE P.L.				

SEWER MAP BK PG

VALUATION $ ~~49,980.00~~ 21,000.00

LDMA P/C #

LDMA Perm #

FINAL DATE 6-15-95

FINAL BY [signature]

VALIDATION

P.C # 6064
23
875.04 CH
5-11-95

627.69
37.15
664.84
C of O 135.00
21.00

rec'd rcpt
6/30/95

☐ Certified copy is hereby furnished

☐ Certified copy is filed with the county building inspection department.

Date _____ Applicant _____

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

I hereby affirm that I am exempt from the Co... for the following reason: (Sec. ... the Labor Code: Any city or county ... to construct, alter, improve, demo... sions Code: alter, improve, also requ... it to construct, alter, improve, demo... ucture, prior to its issuance, also requ... which permit to the provisions of the ... ent to the provisions ... (commencing with ... and Professions ... basis for ...

INSPECTOR COPY

First 20 Additional

Total No. _____

Fixed Appliances Not Over 1 HP

Range ___ Heater ___ D.W. ___

Plumbing Fixtures

Applicant _____

APPLICANT: If, after making this Certificate of ... you should become subject to the Workers' ... tion provisions of the Labor Code, you must forth...

FORM A638A 20-0010 DPW 12/82

APPLICATION FOR BUILDING PERMIT

CITY OF IRWINDALE

COUNTY OF LOS ANGELES

BUILDING AND SAFETY

1

FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 5010 Azusa Cyn Rd

CITY: Irwindale ZIP:

SIZE OF LOT: NO. OF BLDGS. NOW ON LOT:

TRACT: BLOCK: LOT NO.:

ASSESSOR MAP BOOK: PAGE: PARCEL:

OWNER: GTE TEL NO.:

ADDRESS: 5010 Azusa Cyn Rd

CITY: Irwindale ZIP: 91706

ARCHITECT OR ENGINEER: TEL NO.:

ADDRESS:

CONTRACTOR: ARCTIC ENERGY CORP TEL NO.: 818 998-7778

ADDRESS: 16175 CONDASSET LIC. NO.: 457717

CITY: V.N. LIC. CLASS: C10

SQ. FT. SIZE: 9800 NO. OF STORIES: NO. OF FAMILIES:

DESCRIPTION OF WORK: T-Bar Ceiling Grid (2nd Adm Bldg) (Floor)

USE OF EXISTING BLDG:

NEW ☐ ADD ☐ ALTER ☒ REPAIR ☐ DEMOL ☐ URM ☐

APPLICANT (PRINT): Jean Amador TEL NO.: (818) 865-9611

ADDRESS:

WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

YES ☐ NO ☐

WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) SEE PERMITTING CHECKLIST FOR GUIDELINES.

YES ☐ NO ☐

I HAVE READ THE HAZARDOUS MATERIALS INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE LOS ANGELES COUNTY CODE, TITLE 2, CHAPTER 2.20 SECTIONS 2.20.100 THROUGH 2.20.140 CONCERNING HAZARDOUS MATERIALS REPORTING AND FOR OBTAINING A PERMIT FROM THE SCAQMD.

OWNER OR AGENT

P.C. FEE	360.98	PERMIT FEE	432.25
		ISSUANCE FEE	37.15
INVESTIGATION FEE		TOTAL FEE	469.40

SEE REVERSE FOR EXPLANATORY LANGUAGE

BUILDING ADDRESS: 5010 Azusa Cyn Rd

LOCALITY: Irwindale

NEAREST CROSS ST.:

USE ZONE: M2 MAP NO.:

SPECIAL CONDITIONS: CMP 08

WITHIN 1000 FT. OF SCHOOL? YES NO

DISTRICT	GROUP	TYPE CONST.	FIRE ZONE	PROCESSED BY
S-06	B2	~~IA~~	3	K

STATISTICAL CLASSIFICATION: CLASS NO. 22 DWELL UNITS: APT: CONDO:

REQUIRED SET BACK	YARD	HWY.	TOTAL SETBACK FROM PROP LINE	EXIST WIDTH
FRONT P.L.				
SIDE P.L.				

SEWER MAP BK: PG:

VALUATION: $ 16,000.00

$

LDMA P/C #:

LDMA Perm #:

FINAL DATE: 8/15/95

FINAL BY:

P.C.# 6133
23
360.98 CM
6-6-95

VALIDATION #1 01* *46940 *46940 1d 1 ***
63543
07-10-95
$0

INSPECTOR COPY

WORKER'S COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.)

Policy No. WC 10014699 Company NSICC

☐ Certified copy is hereby furnished.

☐ Certified copy is filed with the county building inspection department.

Date 7-10-95 Applicant [signature]

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws.

Date _____ Applicant _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed underprovisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Number 457717 Lic. Class C10

Contractor Arctic Energy Date 7-10-95

☐ I am exempt under Sec. _____

B.&P.C. for this reason _____

_____ Date: _____

Signature _____

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work and the structure is not intended or offered for sale (Section 7044, Business and Professions Code.)

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code.)

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.)

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state under penalty of perjury that the above information is correct. I agree to comply with all county ordinances and State laws relating to building construction, and hereby authorize representatives of this County to enter upon the above-mentioned property for inspection purposes.

[signature] 7-10-95

Owner or Authorized Agent Date

76 A638A 20-0010 DPW 12/82

WORKER'S COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.)

Policy No. WC 10014699 Company NSICC

☐ Certified copy is hereby furnished.

☐ Certified copy is filed with the county building inspection department.

Date 7-10-95 Applicant [signature]

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws.

Date _____ Applicant _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed underprovisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Number 457717 Lic. Class C10

Contractor Arctic Energy Date 7-10-95

☐ I am exempt under Sec. _____

B.&P.C. for this reason _____

_____ Date: _____

Signature _____

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work and the structure is not intended or offered for sale (Section 7044, Business and Professions Code.)

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code.)

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.)

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state under penalty of perjury that the above information is correct. I agree to comply with all county ordinances and State laws relating to building construction, and hereby authorize representatives of this County to enter upon the above-mentioned property for inspection purposes.

[signature] 7-10-95

Owner or Authorized Agent Date

76 A638A 20-0010 DPW 12/82

Business License ... Expiration Date: 6/30/96

20-0019 DPW (12-91)
76A663

APPLICATION FOR ELECTRICAL PERMIT

COUNTY OF LOS ANGELES — DEPT. OF PUBLIC WORKS — BUILDING AND SAFETY DIV.

CITY OF IRWINDALE

FOR APPLICANT TO FILL IN

	NO.	EACH	FEE
New Residential Bldgs. & Pools			
1 & 2 -Family, Sq. Ft.	—	$	$
Multi-family Sq. Ft.	—		
Residential Swimming Pools			
Outlets: Rec. ___ Light ___ Sw. 5			
First 20	5	2.54	12 70
Total No. ___ Additional			
Lighting Fixtures First 20	20	2.54	50 50
Total No. 166 Additional	146	1.73	252 58
RESIDENTIAL APPLIANCES NOT OVER 3 HP.			
OTHER APPLIANCES NOT OVER 3 HP.			
Power Apparatus & Large Appliances Size & Type HP, KW, KVA, or KVAR			
___ Over 3 to 10 Incl.	1	20.36	20 36
___ Over 10 to 50 Incl.			
___ Over 50 to 100 Incl.			
___ Over 100			
Services, Swbd., MCC & Panelboards			
0 - 399 Amp. Under 600 V			
400 - 1000 Amp. Under 600 V			
Over 1000 Amp. or Over 600 V			
BRANCH CIRCUIT FEES 15A, or 20A, 120V, Lighting or Recept.			
___ 1 To 10 Branch Circuits			
___ 11 To 40 Branch Circuits			
___ 41 Or More Branch Circuits			
15A, 20A, 208V To 277V Lighting Br. Circuits			
Temp. Power Pole & Appurtenances			
Sign with One Branch Circuit			
Additional Sign Branch Circuits			
Misc. Conduits & Conductors			
Other (See Complete Fee Schedule) ___			
PERMIT FEE (Sub-Total)			336 44
PLAN CHECKING FEE			—
PERMIT ISSUING FEE			37 15
TOTAL FEE			373.59

JOB ADDRESS: 5010 AZUSA CYN RD.
LOCALITY: IRWINDALE
NEAREST CROSS ST.:
ASSESSOR MAP BOOK / PAGE / PARCEL:
OWNER OR FIRM NAME: GTE
MAIL ADDRESS: 5010 AZUSA CYN RD.
CITY: IRWINDALE Tel. No.:
PLAN CHECK APPLICANT: PACIFIC ENERGY CONST.
ADDRESS: 16128 CONNECT ST.
CITY: V. N. Tel. No.: 818 988-7775
PERMIT APPLICANT: SAME
ADDRESS:
CITY: Tel. No.:
LICENSE OR REG. NUMBER: 457717 Class: C10
DISTRICT NO.: S-06
PROCESSED BY: K
FINAL DATE: 8/15/95
FINAL BY:

VALIDATION

#2
01* *37359
*37359 82
03558
07-10-95
$0

CONTRACTOR'S COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3800 Lab. C.)

Policy No. UC 1001146 Company NAICC

☐ Certified copy is hereby furnished.

☐ Certified copy is filed with the county building inspection department.

Date 7-10-95 X Applicant R Cornelius

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the work involved by the permit is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws.

Date _____ Applicant _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Number 457717 Lic. Class C10

Contractor Pacific Energy Date 6-7-95

☐ I am exempt under Sec. _____

B.&P.C. for this reason _____

_____ Date: _____

Signature _____

☐ Exemption for Reg. Maint. Elect.

SINGLE FAMILY HOME OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code):

☐ I, as owner of the property, will do the work and the structure is not intended or offered for sale (Section 7044, Business and Professions Code).

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.)

Lender's Name _____

Lender's Address _____

I certify that I have read this application and under penalty of purjury state that the above information is correct. I agree to comply with all County ordinances and State laws regulating Electrical wiring, and hereby authorize representatives of this County to enter upon the above-mentioned property for inspection purposes.

Richard L Cornelius 7-10-95

SEE REVERSE FOR EXPLANATORY LANGUAGE

INSPECTOR COPY

Outlets: Rec ___ Light ___ Sw. ___ First 20

COMPENSATION INSURANCE

(This section need not be completed if the work involved by

Business License num rept
Expiration Date 6/30/96

APPLICATION FOR BUILDING PERMIT

CITY OF IRWINDALE — COUNTY OF LOS ANGELES — BUILDING AND SAFETY — DALE 1

WORKER'S COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.)

Policy No. _____ Company _____

☐ Certified copy is hereby furnished.

☐ Certified copy is filed with the county building inspection department.

Date _____ Applicant _____

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws.

Date _____ Applicant _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed underprovisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Number _____ Lic. Class _____

Contractor _____ Date _____

☐ I am exempt under Sec. _____

B.&P.C. for this reason _____

_____ Date: _____

Signature _____

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work and the structure is not intended or offered for sale (Section 7044, Business and Professions Code.)

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code.)

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.)

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state under penalty of perjury that the above information is correct. I agree to comply with all county ordinances and State laws relating to building construction, and hereby authorize representatives of this County to enter upon the above-mentioned property for inspection purposes.

Jean Amador 05/31/94

Signature of Applicant or Agent — Date

76 A638A 20-0010 DPW 12/92

FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 5010 AZUSA CANYON RD.
CITY: IRWINDALE ZIP: 91706
SIZE OF LOT: NO. OF BLDGS. NOW ON LOT:
TRACT: BLOCK: LOT NO:
ASSESSOR MAP BOOK: 8417 PAGE: 025 PARCEL: 800
OWNER: GTE - THOUSAND OAKS 805-372-7576 TEL NO.
ADDRESS: ONE GTE PLACE
CITY: THOUSAND OAKS ZIP: 91362-3811
ARCHITECT OR ENGINEER: JEAN AMADOR 818 865-9611 TEL NO.
ADDRESS: 32133 W. LINDERO CYN. RD. #106 WESTLAKE VLG, CA.
CONTRACTOR: None issued to TEL NO.
ADDRESS: Agent - Eng/Arct. do cypher LIC. NO.
EXISTG BLDG. LIC. CLASS
SQ. FT. SIZE: 129,000 NO. OF STORIES: 2 NO. OF FAMILIES:
DESCRIPTION OF WORK: INTERIOR REHAB. / T.I.
USE OF EXISTING BLDG: OFFICE
APPLICANT (PRINT): TEL NO.
ADDRESS:

NEW ☐ ADD ☐ ALTER ☒ REPAIR ☐ DEMOL ☐ URM ☐

WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?
YES ☐ NO ☐

WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.
YES ☐ NO ☐

I HAVE READ THE HAZARDOUS MATERIALS INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE LOS ANGELES COUNTY CODE, TITLE 2, CHAPTER 2.20 SECTIONS 2.20.100 THROUGH 2.20.140 CONCERNING HAZARDOUS MATERIALS REPORTING AND FOR OBTAINING A PERMIT FROM THE SCAQMD.

OWNER OR AGENT

P.C. FEE: 258.55	PERMIT FEE:	308.90
	ISSUANCE FEE:	37.15
INVESTIGATION FEE:	TOTAL FEE:	346.05

SEE REVERSE FOR EXPLANATORY LANGUAGE

BUILDING ADDRESS: 5010 AZUSA CANYON RD.
LOCALITY: IRWINDALE
NEAREST CROSS ST.: ARROW
USE ZONE: M2 MAP NO.
SPECIAL CONDITIONS: IR94153-13 *C CMP B08
WITHIN 100C FT. OF SCHOOL? YES NO

DISTRICT	GROUP	TYPE CONST	FIRE ZONE	PROCESSED BY
5.06	B2	IN	3	TARANGO

STATISTICAL CLASSIFICATION: CLASS NO. _____ DWELL UNITS _____ APT CONDO

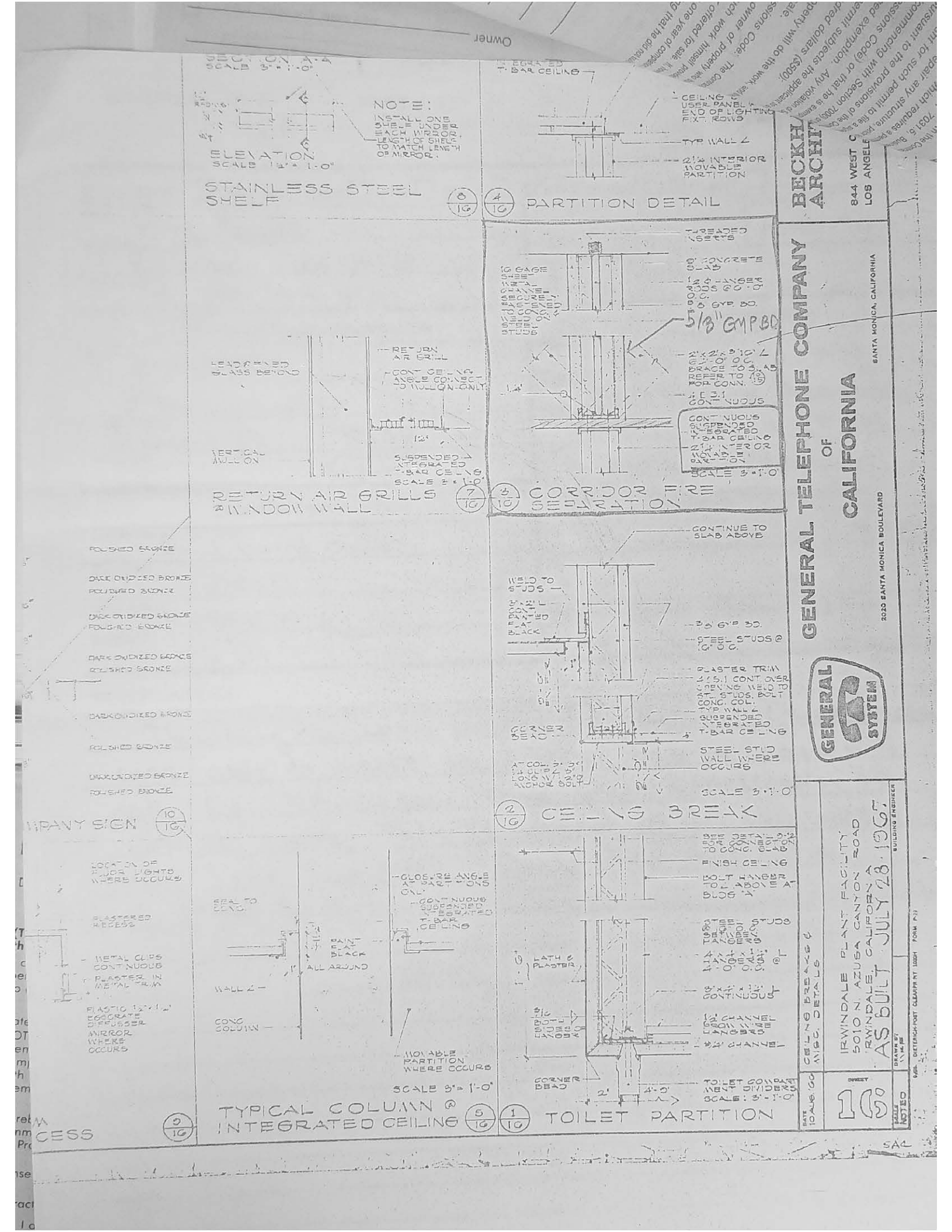
REQUIRED SET BACK	YARD	HWY	TOTAL SETBACK FROM PROP LINE	EXIST WIDTH
FRONT P.L.				
SIDE P.L.				

SEWER MAP BK PG
VALUATION: $ 9492.00
$
LDMA P/C #
LDMA Perm #
FINAL DATE: 10-14-94
FINAL BY: Jan

#23
$ 258.55
258.55
P.C.# 4766
03-31-94

VALIDATION

INSPECTOR COPY
SAFETY PERMIT ☐ (LIST ITE
Requirements:
Lic. Class
License Number
Contractor
Over 50 to 100 Inc.
Over 100
Services


SECTION A-A
SCALE 3"=1'-0"
ELEVATION
SCALE 1½"=1'-0"
NOTE:
INSTALL ONE SHELF UNDER EACH MIRROR. LENGTH OF SHELF TO MATCH LENGTH OF MIRROR.
STAINLESS STEEL SHELF
8/10
EDGE OF T-BAR CEILING
CEILING USER PANEL
END OF LIGHTING FIXT. ROW
TYP WALL
2½" INTERIOR MOVABLE PARTITION
4/10
PARTITION DETAIL
RETURN AIR GRILL
LEADED GLASS BEYOND
RETURN AIR GRILL
CONT CEILING ANGLE CONNECT TO MULLION ONLY
VERTICAL MULLION
SUSPENDED INTEGRATED T-BAR CEILING
SCALE 3"=1'-0"
7/10
RETURN AIR GRILLS @ WINDOW WALL
THREADED INSERTS
6" CONCRETE SLAB
1¼" HANGER RODS @ 4'-0" O.C.
5/8" GYP. BD.
5/8" GMPBD
2"X2"X.10 GA. L BRACE TO SLAB REFER TO 10/10 FOR CONN.
2'-0"
CONTINUOUS
CONT. SUSPENDED INTEGRATED T-BAR CEILING
2½" INTERIOR MOVABLE PARTITION
SCALE 3"=1'-0"
3/10
CORRIDOR FIRE SEPARATION
CONTINUE TO SLAB ABOVE
WELD TO STUDS
5/8" GYP BD.
STEEL STUDS @ 16" O.C.
PLASTER TRIM
2.5:1 CONT OVER OPENING WELD TO ST. STUDS, BOLT CONC. COL.
TYP WALL
SUSPENDED INTEGRATED T-BAR CEILING
CORNER BEAD
STEEL STUD WALL WHERE OCCURS
SCALE 3"=1'-0"
2/10
CEILING BREAK
POLISHED BRONZE
DARK OXIDIZED BRONZE
POLISHED BRONZE
DARK OXIDIZED BRONZE
POLISHED BRONZE
DARK OXIDIZED BRONZE
POLISHED BRONZE
DARK OXIDIZED BRONZE
POLISHED BRONZE
DARK OXIDIZED BRONZE
POLISHED BRONZE
MPANY SIGN
10/10
LOCATION OF FLOOR LIGHTS WHERE OCCURS
PLASTERED RECESS
METAL CLIPS CONT. CHANNEL
PLASTER IN METAL TRIM
PLASTIC 12"x12" EGGCRATE DIFFUSER
MIRROR WHERE OCCURS
SEAL TO CEIL.
PAINT FLAT BLACK ALL AROUND
WALL
CONC COLUMN
CLOSURE ANGLE AT PART. TOP
CAL.
CONTINUOUS SUSPENDED INTEGRATED T-BAR CEILING
MOVABLE PARTITION WHERE OCCURS
SCALE 3"=1'-0"
TYPICAL COLUMN @ INTEGRATED CEILING
9/10
CESS
SEE DETAIL FOR CONNECTION TO CONC. SLAB
FINISH CEILING
BOLT HANGER TO ABOVE AT BLDG 'A'
STEEL STUDS
LATH & PLASTER
CONTINUOUS
LIGHT CHANNEL
CORNER BEAD
TOILET COMPARTMENT DIVIDERS
SCALE: 3"=1'-0"
1/10
TOILET PARTITION
GENERAL TELEPHONE COMPANY OF CALIFORNIA
2023 SANTA MONICA BOULEVARD
SANTA MONICA, CALIFORNIA
GENERAL SYSTEM
BECKH ARCHI
844 WEST C
LOS ANGELE
CEILING BREAKS & MISC. DETAILS
IRWINDALE PLANT FACILITY
5010 N. AZUSA CANYON ROAD
IRWINDALE, CALIFORNIA
AS BUILT JULY 28, 1967
BUILDING ENGINEER
SHEET
16
DRAWN BY
DATE
ISSUED
NOTED
DIETERICH POST CLEARPRINT 1000H FORM 701

OCT-12-1994 09:38 SQUARE D TSD

11

974

REQUEST BY: ☐ CONTR ☐ USER ☐ OEM ☐ DISTR ☒ FIELD OFFICE ☐ PLANT ☐

NAME: Greg Knowles	DATE REQUESTED: 10-10-94 / DATE REQUIRED: 10-10-94
COMPANY/LOCATION: Riverside Field Office	TSD INCIDENT NUMBER:
PHONE NUMBER: 909-784-3661	URGENCY CODE:

CUSTOMER BILLING INFORMATION

COMPANY: CEO RUSD
ADDRESS: 2970 Durahart St
CITY/STATE/ZIP: Riverside, Ca. 92507
P.O. NUMBER: / ACCOUNT NUMBER: 50845

WORK LOCATION

COMPANY: GTE Storage Yard
ADDRESS: 5010 Azusa Canyon road
CITY/STATE/ZIP: Irwindale, Ca. 91706
CONTACT: Tom Hicks / TITLE: Contractor
CONTACTS CO.: Hicks Electric
PHONE NUMBER: 909-788-4722 (home) 909-7

EQUIPMENT INFORMATION

DESCRIPTION: Panel board cover
CLASS/TYPE: NQOD
SQUARE D NUMBER: 4986590
WARRANTY: ☒ YES ☐ NO / WARRANTY DATE: 7-94

TSD QUOTE NO.: — / PRICE: —

TYPE WORK: ☒ REPAIR ☐ START-UP ☐ TRAINING ☐ OTHER

WORK REQUESTED:

The wrong can was shipped for panel 'P1'. The contractor was able to install the interior, but the cover will not fit. It will take some field modification to make it work. This is holding up payment on the job. Need help ASAP. Please call ASAP w/ Any questions.

Barry Hall
Pres

Greg

Mary

76M444
CE 875 (2-80)

MISCELLANEOUS APPLICATION

COUNTY OF LOS ANGELES — BUILDING AND SAFETY DIVISION

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.)

Policy No. _____ Company _____

☐ Certified copy is hereby furnished.

☐ Certified copy is filed with the county building inspection department.

Date _____ Applicant _____

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the work involved by the permit is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws.

Date _____ Applicant _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Number _____ Lic. Class _____

Contractor _____ Date _____

☐ I am exempt from the licensing requirements as I am a licensed architect or a registered professional engineer acting in my professional capacity (Section 7051, Business and Professions Code).

Lic. or Reg. No. _____ Date _____

HOME OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code):

☐ I, as owner of the property, will do the work and the structure is not intended or offered for sale (Section 7044, Business and Professions Code).

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.).

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state that the above information is correct. I agree to comply with all County ordinances and State laws relating to building construction, and hereby authorize representatives of this County to enter upon the above-mentioned property for inspection purposes.

X _____ 12/4/84
Signature of Permittee — Date

FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 5010 N. Azusa Cyn
LOCALITY: Irwindale
NEAREST CROSS ST.: Arrow Hwy
LEGAL DESCRIPTION | LOT NO. | BLOCK
TRACT | NO. OF BLDGS. NOW ON LOT
SIZE OF LOT | USE OF EXISTING BLDG.
OWNER: General Telephone Co
MAIL ADDRESS: 5010 N. Azusa Cyn
CITY: Irwindale — TEL. NO. 386-5572

APPLICATION FOR

TRAILER USE ☒ — GEOLOGY INSPECTION ☐
OCCUPANCY INSPECTION ☐
SAFETY PERMIT ☐ (LIST ITEMS BELOW)

Requirements:
1. State Vichicle insignia
2. Seismic Hold-downs

SIZE OF EXISTING BLDG.: 12X45 — NO. OF STORIES: 1
PRESENT USE OF BUILDING
NO. OF EXISTING BUILDINGS ON LOT AND USE
NO. PARKING SPACES PROVIDED
PROPOSED USE OF BUILDING: Temporary Office use while remodel work is being done
— PROPOSED MAX. OCC.

PERMIT FEE	40.00	(Per State Fee)
ISSUANCE FEE	—	
TOTAL FEE	40.00	

SEE REVERSE FOR EXPLANATORY LANGUAGE

BUILDING ADDRESS: 5010 N. Azusa Cyn Rd.
LOCALITY: Irwindale
NEAREST CROSS ST.: Arrow Highway
DISTRICT NO.: 5.06 | GROUP: Trailer | TYPE CONST.: . | PROCESSED BY: HARRIS
MAP NO.: 150H305 | HIGHWAY (CIRCLE) | STATE MAJOR SECOND LOCAL
USE ZONE: M2 | SPECIAL CONDITIONS
OCCUPANCY GROUP
OCCUPANT LOAD
EXIT HARDWARE:
No Spec. Knowl. ☐
Panic Devices ☐
NO. OF EXITS
PARKING SPACES: REQ'D | PROVIDED
LIMITED TIME USE
FROM: DATE — TO: DATE
INSPECTOR'S SIGNATURE
FINAL APPROVAL: 1-9-85 J. Harris

INSPECTOR COPY

APPLICATION FOR BUILDING PERMIT

1

COUNTY OF LOS ANGELES — **BUILDING AND SAFETY**

INSPECTOR COPY

FOR APPLICANT TO FILL IN	
BUILDING ADDRESS	5010 Azusa Canyon Road
CITY	Irwindale ZIP 91706
SIZE OF LOT	Irreg. NO. OF BLDGS. NOW ON LOT 7
TRACT	See attached sheet BLOCK LOT NO.
OWNER	General Telephone Co.ofCA TEL. NO. 805/372-6529
ADDRESS	ONE GTE PLACE, RC-3601
CITY	Thousand Oaks ZIP 91362
ARCHITECT OR ENGINEER	R.T. Santos, AIA TEL. NO. 818/796-1966
ADDRESS	140 Palmetto Dr.,Pasadena 91105
CONTRACTOR	Larry Brown, Gen. Contr. TEL. NO. 818/331-0557
ADDRESS	230 E. Rowland Ave. LIC. NO. 328255
CITY	Covina, CA 91723 LIC. CLASS B
SQ. FT. SIZE	19630 151x65 NO. OF STORIES 2 NO. OF FAMILIES N.A.
DESCRIPTION OF WORK	Add± 116LF of 9' demoun.wall,4new doors,add unisex h.c. toilet and ext. ramp & matching lts & a.c. rearrang.
USE OF EXISTING BLDG.	Offices (B2) NoChange
APPLICANT (PRINT)	R.T. Santos, AIA TEL. NO. 818/796-1966
ADDRESS	140 Palmetto Dr.,Pasadena,CA 91105

CHECK ONE: NEW ☐ ADD ☐ ALTER ☒ REPAIR ☐ DEMOL ☐

PRESENT BUILDING ADDRESS	N.A.
LOCALITY	N.A.
MOVING CONTRACTOR	N.A. TEL. NO. N.A.
ADDRESS	N.A.

REQUIRED SET BACK	YARD	HWY	TOTAL SETBACK FROM PROP. LINE	EXIST. WIDTH
FRONT P.L.				
SIDE P.L.				

P.C. Fee $ 428.40	Permit Fee
	Issuance Fee
Investigation Fee	Total Fee

BUILDING ADDRESS	5010 Azusa Canyon Road
LOCALITY	IRWINDALE
NEAREST CROSS ST.	Sandstone St. & Nubia St.
ASSESSOR MAP BOOK	8417 PAGE 025 PARCEL 800
USE ZONE	M1
MAP NO.	150 H 305
SPECIAL CONDITIONS	

DISTRICT	GROUP	TYPE CONST.	FIRE ZONE	PROCESSED BY
5.06	B-2	I	III	HARRIS

STATISTICAL CLASSIFICATION CLASS NO. 22 DWELL. UNITS ____ APT. ____ CONDO. ____

SEWER MAP BK. ____ PG. ____

VALIDATION

VALUATION $ 40,000.00

$

FINAL DATE 3/20/86

FINAL By

01.06-86

LDMA Ref. #

LDMA P/C #

LDMA Perm. #

Business License #35998

Exp. Date 6-30-86

SEE REVERSE FOR EXPLANATORY LANGUAGE

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self insure, or a certificate of Workers' Compensation Insurance, or a copy thereof (Sec. 3800, Lab. C.)

Policy No. 3130047 Company WEST AMERICAN

☑ Certified copy is hereby furnished.

☐ Certified copy is filed with the county building inspection department.

MAILED TO CITY OF IRWINDALE 1/3/86

Date 1/6/86 Applicant ____

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws.

Date 1/6/86 Applicant ____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Number 328255 Lic. Class B

Contractor LARRY BROWN CONSTR. Date 1/6/86

☐ I am exempt under Sec. ____

B.&P.C. for this reason ____

____ Date: ____

Signature ____

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code):

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work and the structure is not intended or offered for sale (Section 7044, Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code).

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.).

Lender's Name NONE

Lender's Address ____

I certify that I have read this application and state that the above information is correct. I agree to comply with all County ordinances and State laws relating to building construction, and hereby authorize representatives of this County to enter upon the above-mentioned property for inspection purposes.

X Marvin Essinger 1/8/86

Plan Check Applicant ____ Tel. No. 331-0557

Address COVINA, CA

1-50 4 6 20

Lighting Fixtures First 20 Additional

Total No. 4

Workers' Compensation Laws.

COPY

August 3, 1967

Mr. Emery Simon, Jr.,
General Building Engineer
General Telephone Company of California
2020 Santa Monica Boulevard
Santa Monica, California

Attention: Dick Hall

Re: Irwindale Facility - Temporary Building

Gentlemen:

Your request to this office to check with the local Building Department regarding the status of your "temporary" building has been carried out. After checking with Mr. Edwards of Temple City Building Department, Los Angeles County, it was stated that the County does not recognize any structure as a temporary structure. Therefore, the original plan check and building permit that was obtained on this building is good indefinitely.

We would like to recommend that if you are contemplating keeping the structure here for a length of time, you consider painting the building so as not to detract from the newly erected buildings on the site. We would be happy to suggest a color and handle any necessary work with a contractor.

Cordially,

Armando L. Gonzalez, Jr.

ALGJR:gb
cc: Mr. Edwards

COPY

CITY OF

Irwindale, California

OFFICE OF CITY ENGINEER

PERMIT No. 257

APPLICATION FOR

☐ STREET EXCAVATION PERMIT FOR THE PURPOSE OF.....

☐ SEWER PERMIT

☐ DRIVEWAYS AND SIDEWALK PERMIT

☐ HOUSEMOVING PERMIT

☒ OTHER

NAME Mac Issac & Menke, Inc.

Please print name of person, firm or corporation for whom application is made.

CITY BUSINESS LICENSE NO. _____ STATE LICENSE _____

Hereby makes applicaton to perform the following described work:

LOCATION OF WORK @ 5010 N/O. Azusa Canyon Rd., Irwindale, Gen'l. Telephone Co. Yard.

NO PLAN SUBMITTED ☐

SEE ATTACHED PLAN CONSISTING OF _____ SHEETS

INSTALLATON	LENGTH	WIDTH	DESCRIPTION	FEE
RESIDENCE DRIVEWAY				
COMMERCIAL DRIVEWAY				
CURB ONLY				
APRONS AND GUTTERS				
SIDEWALK				
EXCAVATION				
SEWER				
PARKWAY TREE	SPECIES			
HOUSEMOVING	DATE		FROM M. to M.	
CONSTRUCTION FENCE (TEMPORARY)				NONE
			TOTAL FEE	—

SIGNATURE OF APPLICANT H. E. Condit

PHONE 338-3338 DATE Oct. 21, 1966

MAILING ADDRESS 3440 W. 14th St.

CITY Los Angeles, Calif.

APPROVED Edward DATE Oct. 1, 1966

(OFFICE OF CITY ENGINEER)

THIS APPLICATION BECOMES A PERMIT WHEN APPROVED AND FEE PAID

INSPECTION IS REQUIRED - SEE REVERSE SIDE

(INSPECTOR'S COPY)

CITY USE ONLY

DATE WORK STARTED _____

DATE WORK APPROVED _____

Signed _____ Date _____

INSPECTOR

TRENCH PERMANENTLY RESURFACED

Signed _____ Date _____

(INSPECTOR OR STREET DEPT.)

PERMIT WORK COMPLETE

Signed _____

OFFICE OF CITY ENGINEER

Raymond G. Osborne, LABORATORIES, INC.
Testing and Inspection Engineers
EST 1907

COMPRESSION TEST REPORT

Test made for: General Telephone Co.

Job Identification: GENERAL TELEPHONE ENGRG. & STOREROOM BLDG., 5010 NO. AZUSA CANYON RD., IRWINDALE

Location in Structure: BLOCK WALL FTG. @ RET. WALL BLDG. A

LABORATORY DATA

Laboratory Number	28935	28936		
Mark	A	B	C	
Date moulded	11-9-66	11-9	11-9	
Date tested	11-16-66	12-7		
Age, days	7	28		
Weight per cu. ft., lbs.	149	150	149	
Dimensions, (inches)	6x12	6x11.9	6x12	
Area, sq. in.	28.27	28.27	28.27	
Compressive Strength				
Total Load lbs.	59,500			
Lbs. per sq. in.	2,090			

FIELD DATA

MIX: OT 2839-1

Cement	3738
Sand	9163
No. 4	
No. 3	8400
No. 2	5670
Water	250 used
	259 allowed

Specified Strength @ 28 days	3000
Slump	5"
Admixture	None
Ready Mix Plant	Blue Diamond Co.
Cyls. made by	Alex N. Stull
Date cyls. delivered	CQC 11-10-66

Cement: Colton II Silo 13-40

1-General Telephone Co.
1-Beckhart & Mill
1-George O. Dyer
2-MacIsaac & Menke
1-Bldg. Dept.
1-Blue Diamond Co.

Respectfully submitted,
RAYMOND G. OSBORNE LABORATORIES, Inc

By [signature]

a7

CITY OF IRWINDALE

APPLICATION FOR BUILDING PERMIT

COUNTY OF LOS ANGELES IR96045-01 BUILDING AND SAFETY

1

WORKER'S COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. Code).

X Policy No. 046-96 Unit 000524 X Company State Fund

☐ Certified copy is hereby furnished.

☐ Certified copy is filed with the county building inspection department.

X Date 2/13/96 X Applicant Cay A Parker

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws.

Date _____ Applicant _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Number 293742 X Lic. Class A/B/Haz

Contractor Cay A Parker Date 2/13/96

☐ I am exempt under Sec. _____

B&P.C. for this reason _____

_____ Date: _____

Signature _____

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work and the structure is not intended or offered for sale (Section 7044, Business and Professions Code.)

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code.)

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.)

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state under penalty of perjury that the above information is correct. I agree to comply with all county ordinances and State laws relating to building construction, and hereby authorize representatives of this County to enter upon the above-mentioned property for inspection purposes.

X Cay A Parker X 2/13/96

Signature of Applicant or Agent — Date

76 A638A 20-0010 DPW 12/92

FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 5010 N. AZUSA CANYON

CITY: IRWINDALE ZIP: 91706

SIZE OF LOT: _____ NO. OF BLDGS. NOW ON LOT: _____

TRACT: _____ BLOCK: _____ LOT NO.: _____

ASSESSOR MAP BOOK: _____ PAGE: _____ PARCEL: _____

OWNER: GTE CALIFORNIA INC TEL NO.: 800-331-8891

ADDRESS: PO BOX 725

CITY: CHINO ZIP: 91608

ARCHITECT OR ENGINEER: TAIT AND ASSOC. TEL NO.: 714-520-8200

ADDRESS: 1100 TOWN & COUNTRY Rd ORANGE

CONTRACTOR: X Petroleum Contractors Inc X 310/32-7196

ADDRESS: X 2030 W 17th St X LIC. NO.: 293742

CITY: X Long Beach CA 90813 X LIC. CLASS: A/B/Haz

SQ. FT. SIZE: _____ NO. OF STORIES: _____ NO. OF FAMILIES: _____

DESCRIPTION OF WORK: INSTALL FUELING SYSTEM - REMOVE & INSTALL (500 GAL 12,000 GAL)

USE OF EXISTING BLDG.: GTE

APPLICANT (PRINT): LAUREN BOX TEL NO.: 714-520-8200

ADDRESS: 1100 TOWN & COUNTRY Rd ORANGE

NEW ☐ ADD ☐ ALTER ☒ REPAIR ☐ DEMOL ☐ URM ☐

WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE?

YES ☑ NO ☐

WILL THE INTENDED USE OF THE BUIDLING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) SEE PERMITTING CHECKLIST FOR GUIDELINES.

YES ☑ NO ☐

I HAVE READ THE HAZARDOUS MATERIALS INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE LOS ANGELES COUNTY CODE, TITLE 2, CHAPTER 2.20 SECTIONS 2.20.100 THROUGH 2.20.140 CONCERNING HAZARDOUS MATERIALS REPORTING AND FOR OBTAINING A PERMIT FROM THE SCAQMD.

Lauren D Box

OWNER OR AGENT

P.C. FEE	24623	PERMIT FEE	294.41
		ISSUANCE FEE	37.15
INVESTIGATION FEE		TOTAL FEE	331.56

SEE REVERSE FOR EXPLANATORY LANGUAGE

BUILDING ADDRESS: 5010 N. AZUSA CANYON

LOCALITY: IRWINDALE

NEAREST CROSS ST.: ARROW HWY

USE ZONE: M1 MAP NO.: _____

SPECIAL CONDITIONS: CMP #8

WITHIN 1000 FT. OF SCHOOL? YES _____ NO _____

DISTRICT	GROUP	TYPE CONST.	FIRE ZONE	PROCESSED BY
5.06		TANK	3	

STATISTICAL CLASSIFICATION: CLASS NO. _____ DWELL UNITS _____ APT _____ CONDO _____

REQUIRED SET BACK	YARD	HWY	TOTAL SETBACK FROM PROP LINE	EXIST WIDTH
FRONT P.L.				
SIDE P.L.				

SEWER MAP BK _____ PG _____

VALUATION: $ 10,000

$ _____

LDMA P/C # _____

LDMA Perm # _____

FINAL DATE: 3/20/96

FINAL BY: [signature]

P.C. #6899
23
246.23CH
12-6-95

VALIDATION

Business License ... Expiration Date ... 6/30/96

INSPECTOR COPY

yours,

STRAIGHT BILL OF LADING—SHORT FORM
SHIPPING ORDER

PAGE 1 OF 1

BOL NBR: HW03104-5
DATE: 01/23/96
TERMS: PREPAID
CARRIER: ARWC - ARROW TRUCKING COMPANY
SEC 7:
PU DATE: 01/23/96

PU TIME: 00:00

****
** E.D.I. **
** ARWC N/A **
** HOOVER CONTAINMENT. **
****

SHIPPER

HOOVER CONTAINMENT, INC.
4085 BAIN ST
MIRA LOMA CA 91752

CONSIGNEE

IRWINDALE PLANT YARD
5010 NORTH AZUSA CANYON RD
IRWINDALE CA 91706

BILL TO OR REMIT TO

HOOVER CONTAINMENT.INC.
P. O. BOX 396
SEVERNA PARK MD 21146

ISSUING OFFICE OR AGENT

GENERAL COMMENTS

INVOICE REF. JOB #3104-5 MUST BE TARPED
MUST DELIVER WEDNESDAY 1/24/96 1:00 TO 2:00 P.M.
FCC 714-560-8200 ATTN: BILL SHARPENBERG
(1) 500 GALL KOMBO TANK W/(1) USED OIL EQUIP.PKG.(1) NEW OIL EQUP.PKG,GAUGE STICK.(2) ROLL KADDIES.(1) BOX OF 2 GAUGES

PIECES	IN	HM	DESCRIPTION	WEIGHT	RATE	CHARGES	CLASS
	PO		3104-5				
1			500 GA.KOMBO STEEL TANK	1500			
2			ROLL KADDIES 3 0 PALLET	150			
1			BOX OF GAUGES	8			
			CLASS;NMFC 181600 92.5				
4			TOTALS	1658		0	

* 923133

LOGISTICS MANAGER

REMIT C.O.D. TO

ADDRESS

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding.

$ per

COD AMT: $

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE
PREPAID ☐
COLLECT ☐
$

TOTAL CHARGES $ 0.00

FREIGHT CHARGES ARE PREPAID UNLESS MARKED COLLECT

CHECK BOX IF COLLECT ☐

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property, over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.
This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

SHIPPER HOOVER CONTAINMENT, INC.

PER

CARRIER ARROW TRUCKING COMPANY

PER

DATE 1/23/96

* Mark with "X" or "RQ" if appropriate to designate Hazardous Materials or Hazardous Substances as defined in the Department of Transportation Regulations governing the transportation of hazardous materials. The use of this column is an optional method for identifying hazardous materials on bills of lading per Section 172.201(a) (1) (iii) of Title 49, Code of Federal Regulations. Also, when shipping hazardous materials, the shipper's certification statement prescribed in Section 172.204 (a) of the Federal Regulations must be indicated on the bill of lading, unless a specific exception from this requirement is provided in the Regulations for a particular material.

81099 4/91 LITHO U.S.A.

FOR REORDER CALL (800) 847-0400 FORM NUMBER 81099-3PT 81215-4PT

LOS ANGELES, CA

PERMISSION IS HEREBY GRANTED TO:

003882-35 <<<<<<< FILE NUMBER

GENERAL TELEPHONE CO OF CALIF <<<<<<< PERMITTEE

CITY OF IRWINDALE APPLICATION FOR BUILDING PERMIT

COUNTY OF LOS ANGELES IR96043-03 BUILDING AND SAFETY

1

WORKER'S COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.)

X Policy No. 046-96 X Company State Fund

☐ Certified copy is hereby furnished.

☐ Certified copy is filed with the county building inspection department.

X Date 2-8-96 X Applicant Steven Glazier

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws.

Date _____ Applicant _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed underprovisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

X License Number 293742 X Lic. Class B

Contractor _____ Date _____

☐ I am exempt under Sec. _____

B.&P.C. for this reason _____

Date: _____

Signature _____

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work and the structure is not intended or offered for sale (Section 7044, Business and Professions Code.)

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code.)

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.)

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state under penalty of perjury that the above information is correct. I agree to comply with all county ordinances and State laws relating to building construction, and hereby authorize representatives of this County to enter upon the above-mentioned property for inspection purposes.

X _____ X 2-8-96

Signature of Applicant or Agent — Date

76 A638A 20-0010 DPW 12/92

FOR APPLICANT TO FILL IN

BUILDING ADDRESS 5010 N. AZUSA CANYON

CITY LEONDALE ZIP 91706

SIZE OF LOT _____ NO. OF BLDGS NOW ON LOT _____

TRACT _____ BLOCK _____ LOT NO. _____

ASSESSOR MAP BOOK _____ PAGE _____ PARCEL _____

OWNER GTE CALIFORNIA INC. TEL NO. 800-560-8200

ADDRESS ~~Hee Fong & Chandler Rd~~ P.O. BOX 625 Suite 1200

CITY CHINO ZIP 91708

ARCHITECT OR ENGINEER WHARTON & ASSOC TEL NO. 909-823-6412

ADDRESS 3576 RIVERSIDE RIALTO CA

CONTRACTOR Petroleum Cast. TEL NO. (310) 402-7996

ADDRESS 2030 W 17TH ST LIC. NO. 293742

CITY Long Beach CA. LIC. CLASS B

SQ. FT. SIZE 625 NO. OF STORIES _____ NO. OF FAMILIES _____

DESCRIPTION OF WORK

INSTALL NEW CANOPY

USE OF EXISTING BLDG. _____

NEW ☐ ADD ☒ ALTER ☐ REPAIR ☐ DEMOL ☐ URM ☐

APPLICANT (PRINT) LAURA BOX TEL NO. 714-560-8200

ADDRESS 1100 TOWN & COUNTRY SUITE 1200 - Orange

WILL THE APPLICANT OR FUTURE BUILDING OCCUPANT HANDLE A HAZARDOUS MATERIAL OR A MIXTURE CONTAINING A HAZARDOUS MATERIAL EQUAL TO OR GREATER THAN THE AMOUNTS SPECIFIED ON THE HAZARDOUS MATERIALS INFORMATION GUIDE? 4266

YES ☐ NO ☑

WILL THE INTENDED USE OF THE BUILDING BY THE APPLICANT OR FUTURE BUILDING OCCUPANT REQUIRE A PERMIT FOR CONSTRUCTION OR MODIFICATION FROM THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD)? SEE PERMITTING CHECKLIST FOR GUIDELINES.

YES ☐ NO ☑

I HAVE READ THE HAZARDOUS MATERIALS INFORMATION GUIDE AND THE SCAQMD PERMITTING CHECKLIST. I UNDERSTAND MY REQUIREMENTS UNDER THE LOS ANGELES COUNTY CODE, TITLE 2, CHAPTER 2.20 SECTIONS 2.20.100 THROUGH 2.20.140 CONCERNING HAZARDOUS MATERIALS REPORTING AND FOR OBTAINING A PERMIT FROM THE SCAQMD.

Laura D Box

OWNER OR AGENT

P.C. FEE 303 61	PERMIT FEE 386.30
	ISSUANCE FEE 37.15
INVESTIGATION FEE	TOTAL FEE 423.45

SEE REVERSE FOR EXPLANATORY LANGUAGE

BUILDING ADDRESS 5010 N. AZUSA CANYON

LOCALITY IRWINDALE

NEAREST CROSS ST. ARROW HWY

USE ZONE M1 MAP NO. CMP #8

SPECIAL CONDITIONS

WITHIN 1000 FT. OF SCHOOL? YES _____ NO ✓

DISTRICT	GROUP	TYPE CONST.	FIRE ZONE	PROCESSED BY
5.006	B1	Comm	3	K

STATISTICAL CLASSIFICATION CLASS NO. 22 DWELL UNITS _____ APT _____ CONDO _____

REQUIRED SET BACK	YARD	HWY	TOTAL SETBACK FROM PROP LINE	EXIST WIDTH
FRONT P.L.				
SIDE P.L.				

SEWER MAP _____ BK _____ PG _____

VALUATION $ 13,125.00

$ _____

LDMA P/C # _____

LDMA Permit # _____

FINAL DATE 3/20/96

FINAL BY _____

P.C. # 6898
23
30361 C/H
12-6-95

VALIDATION 71193 02-08-96

Business License exempt

Expiration Date 6/30/96

INSPECTOR COPY

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY

Nº 13122 CERTIFICATE OF REAPPROVAL

MAIN SHOP: 10880 Redwood Avenue, Fontana, CA 92335

This certifies that reapproval for one year is issued by the General Manager under the provisions of the Los Angeles Municipal Code as a

- Testing Agency ☐
- Type I Fabricator ☒
- Type II Fabricator ☐

FABRICATOR/MWS/REBAR/#991

Proco Steel
10880 Redwood Avenue
Fontana, CA. 92335

CASHIER'S USE ONLY

Date 11-9-94

Annual Renewal Fee $ 500.00

This Approval Expires 12-1-95

Resource Management Bureau
DIRECTOR, FABRICATOR LICENSING

B & S R-8 (9/86)

Total Water Used _____ Allow. _____

APPLICATION FOR BUILDING PERMIT

1

COUNTY OF LOS ANGELES — **BUILDING AND SAFETY**

INSPECTOR COPY

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.)

Policy No. WP8614215 Company Fremont Ind. Co

☐ Certified copy is hereby furnished.

☐ Certified copy is filed with the county building inspection department.

Date 3-13-86 Applicant H&M Roofing

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws.

Date _____ Applicant _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Number 426915 Lic. Class C-39

Contractor H&M Roofing Date 3/13/86

☐ I am exempt under Sec. _____

B.&P.C. for this reason _____

_____ Date: _____

Signature _____

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code):

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work and the structure is not intended or offered for sale (Section 7044, Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Section 7044, Business and Professions Code).

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.).

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state that the above information is correct. I agree to comply with all County ordinances and State laws relating to building construction, and hereby authorize representatives of this County to enter upon the above-mentioned property for inspection purposes.

_____ 3-13-86

Signature of Applicant or Agent — Date

FOR APPLICANT TO FILL IN

BUILDING ADDRESS	5010 Azusa Canyon Rd.
CITY	Irwindale ZIP
SIZE OF LOT	NO. OF BLDGS. NOW ON LOT
TRACT / BLOCK / LOT NO.	
OWNER	G.T.E. TEL. NO.
ADDRESS	5010 AZUSA CYN RD
CITY	IRWINDALE ZIP 91706
ARCHITECT OR ENGINEER	TEL. NO.
ADDRESS	
CONTRACTOR	H&M. Roofing TEL. NO. 444-9578
ADDRESS	12243 Garvey LIC. NO. 426915
CITY	El Monte LIC. CLASS C 39

SQ. FT. SIZE	NO. OF STORIES	NO. OF FAMILIES	CHECK ONE

DESCRIPTION OF WORK: Repair Roofing of Administration & Supply Bldg. — NEW ☐ ADD ☐ ALTER ☐ REPAIR ☒ DEMOL ☐

USE OF EXISTING BLDG. Telephone Co GTE

APPLICANT (PRINT) Don Wichman TEL. NO. 444-9578

ADDRESS 12243 Garvey Ave. El Monte

PRESENT BUILDING ADDRESS _____

LOCALITY _____

MOVING CONTRACTOR _____ TEL. NO. _____

ADDRESS _____

REQUIRED SET BACK	YARD	HWY	TOTAL SETBACK FROM PROP. LINE	EXIST. WIDTH
FRONT P.L.				
SIDE P.L.				

P.C. Fee $	Permit Fee 290.00
	Issuance Fee 21.00
Investigation Fee	Total Fee 311.00

BUILDING ADDRESS	5010 AZUSA CYN RD.
LOCALITY	IRWINDALE
NEAREST CROSS ST.	ARROW HWY
ASSESSOR MAP BOOK / PAGE / PARCEL	
USE ZONE	M1
MAP NO.	150 H 305
SPECIAL CONDITIONS	
DISTRICT	5.06
GROUP	B2
TYPE CONST.	V
FIRE ZONE	III
PROCESSED BY	HARRIS
STATISTICAL CLASSIFICATION	CLASS NO. 22 DWELL. UNITS ___
APT. / CONDO.	

SEWER MAP BK. PG.

VALIDATION

VALUATION $ 21,000

$

FINAL DATE 3/12/86

FINAL By

SEE REVERSE FOR EXPLANATORY LANGUAGE

Business License .....

Expiration Date

76 A638A CER03A (REV. 1/80) 4/81

No. 3 Gravel _____ Water ... Total _____

Total Water Used _____ Allow. _____

76A663 10/81
CE-800G

APPLICATION FOR ELECTRICAL PERMIT

COUNTY OF LOS ANGELES — **BUILDING AND SAFETY**

1

INSPECTOR COPY

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec. 3800, Lab. C.)

Policy No. _____ Company _____

☐ Certified copy is hereby furnished.

☐ Certified copy is filed with the county building inspection department.

Date 2/13/87 Applicant Bend J. Haetmann

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the work involved by the permit is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws.

Date _____ Applicant _____

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License Number _____ Lic. Class _____

Contractor _____ Date _____

☐ I am exempt under Sec. _____

B.&P.C. for this reason _____

_____ Date: _____

Signature _____

☐ Exemption for Reg. Maint. Elect

SINGLE FAMILY HOME OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Section 7031.5, Business and Professions Code):

☐ I, as owner of the property, will do the work and the structure is not intended or offered for sale (Section 7044, Business and Professions Code).

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C.)

Lender's Name _____

Lender's Address _____

I certify that I have read this application and state that the above information is correct. I agree to comply with all County ordinances and State laws regulating Electrical wiring, and hereby authorize representatives of this County to enter upon ... property for inspection purposes.

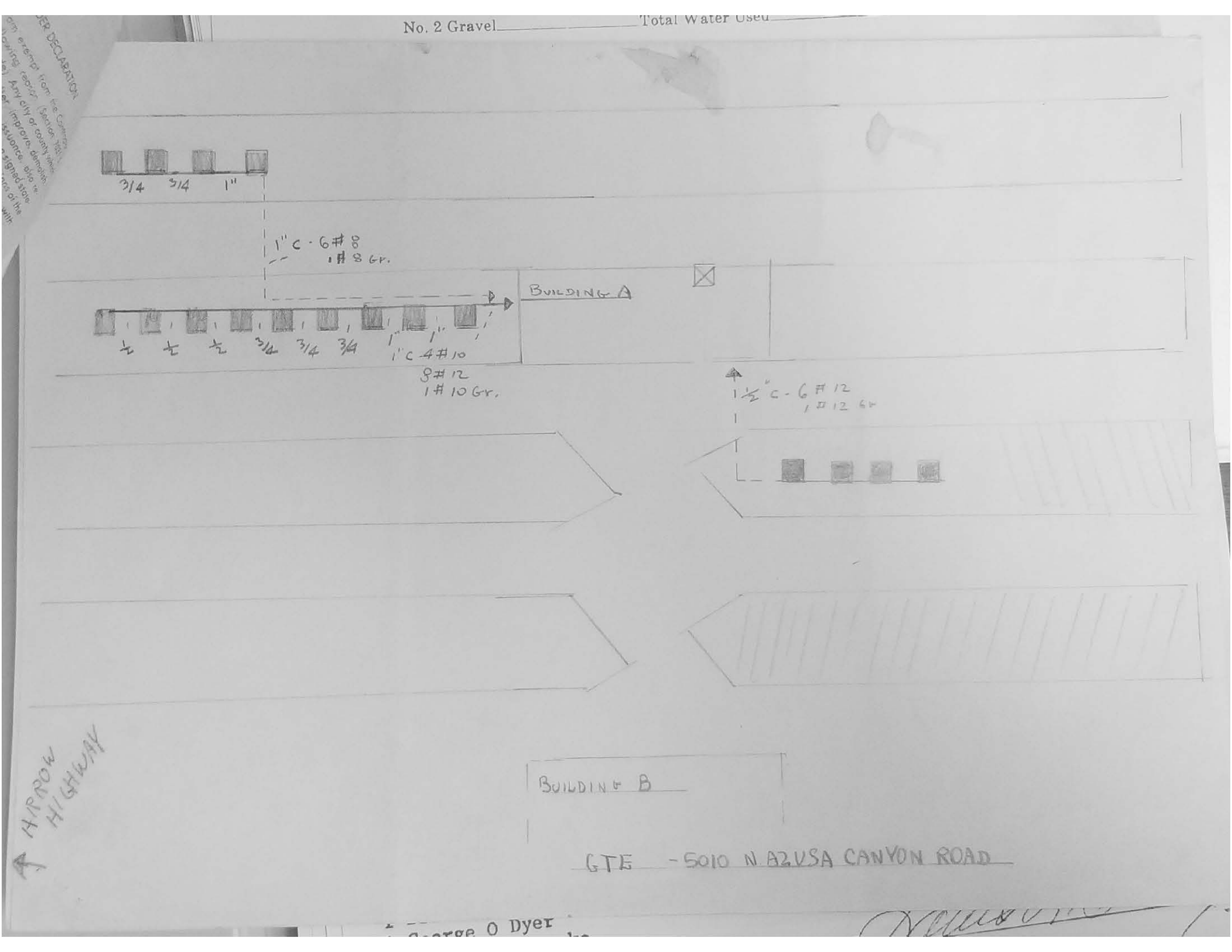
FOR APPLICANT TO FILL IN	EACH	NO.	FEE
New Residential Bldgs. & Pools	$	—	$
1 & 2-Family, Sq. Ft. _____		—	
Multi-family Sq. Ft. _____			
Residential Swimming Pools			
Outlets: Rec 17 Light ___ Sw. ___			35.50
Total No. 17 First 20			
Additional			
Lighting Fixtures First 20			
Additional			
Total No. _____			
Fixed Appliances Not Over 1 HP			
Range ___ Heater ___ D.W. ___			
Oven ___ Dryer ___ W.M. ___			
Top ___ FAU ___ W.H. ___			
Hood ___ Fan ___ Other ___			
Disp. ___ Room Air Cond. ___			
Power Apparatus & Large Appliances			
Size & Type HP, KW, KVA, or KVAR			
_____ Up to 1 Incl.			
_____ Over 1 to 10 Incl.			
_____ Over 10 to 50 Incl.			
_____ Over 50 to 100 Inc.			
_____ Over 100			
Services, Swbd., MCC & Panelboards			
0 - 200 Amp. Under 600 V			
201 - 1000 Amp. Under 600 V			
Over 1000 Amp. or Over 600 V			
Temp. Power Pole & Appurtenances			
Sign with One Branch Circuit			
Additional Sign Branch Circuits			
Misc. Conduits & Conductors			
Other (See Complete Fee Schedule)			
(Sub-Total)			
PERMIT FEE			
PLAN CHECKING FEE			21 —
PERMIT ISSUING FEE			
TOTAL FEE			46.50

JOB ADDRESS	5010 AZUSA CANYON RD
LOCALITY	
NEAREST CROSS ST.	
OWNER OR FIRM NAME	G.T.E.
MAIL ADDRESS	5010 AZUSA CANYON RD
CITY	IRWINDALE Tel. No.
PLAN CHECK APPLICANT	BEND J. HAETMANN
ADDRESS	9337 LAUREL CANYON BLVD
CITY	ARLETA Tel. No. 818-767-5660
PERMIT APPLICANT	SAME
ADDRESS	
CITY	Tel. No.
LICENSE OR REG. NUMBER	317264 Class. C10
DISTRICT NO.	5.06
PROCESSED BY	Benson
FINAL DATE	3/10/87
FINAL BY	

VALIDATION

SEE REVERSE FOR EXPLANATORY LANGUAGE

No. 2 Gravel _____ Total Water Used _____



George O Dyer

Test made for General Telephone Co

Job Identification

Raymond G. Osborne, LABORATORIES, INC.

Testing and Inspection Engineers

FEB 6 9 25 AM '67

CITY OF IRWINDALE

DAILY REPORT OF INSPECTION OF REINFORCED CONCRETE

Building Permit No. L.A. CO. 1204 Date of Inspection 2-1-67

Job Identification GENERAL TELEPHONE ENGRG. & STOREROOM BLDG. 5010 NO. AZUSA CANYON RD., IRWINDALE

Architect Beckhart & Mill Structural Engineer George O. Dyer

General Contractor MacIsaac & Menke

CONCRETE MIX PROPORTIONS REBAR INSPECTION

Mix Designation Admixture

Field Weights: Cement No. Cu. Yds.

Sand Water Added at Plant

No. 4 Gravel Water Added at Job

No. 3 Gravel Water in Aggregate

No. 2 Gravel Total Water Used Total Allow.

Average Slump Test Specimens Marked

Concrete Plant Cement Test & Brand

Reinforcing Steel: Furnished by Isbell Tested by Mill

Placing Steel Checked by H. E. Olcott and others.

CONCRETE: Cu. Yds. Placed Spec. P.S.I. at 28 Days

Location in Structure: Second floor to roof. Shearwall line 1 + 8'2" bet. A & B; shearwall line C betw. 1 & 2. Checked masonry dowels and detail 5/S5 in shearwall line A6.6 and #7 bars at B6.6. All steel in place except for 16x10 beam dowels as Det. 7/S7.

CERTIFICATE OF COMPLIANCE

Registered Deputy Building Inspector's Certificate Signed by Inspector H. E. Olcott has been filed and it states that the above work was inspected by him in accordance with the provisions of the Building Code applicable thereto.

Respectfully submitted,

RAYMOND G. OSBORNE LABORATORIES, INC.

By

a6

The laboratory does not warrant or guarantee the quality of, and does not insure or supervise the construction work covered by this report; nor does it warrant or guarantee the scope or sufficiency of the codes or specifications under which the work or the inspection was conducted.

RECEIVED
FEB 6 9 25 AM '67
CITY OF IRWINDALE

Raymond G. Osborne, LABORATORIES, INC.
Testing and Inspection Engineers
EST. 1907

REPORT ON INSPECTION OF READY MIX CONCRETE

Job Identification: GENERAL TELEPHONE ENGRG & STOREROOM BLDG
5010 N Azusa Canyon Rd - Irwindale

General Contractor: MacIsaac & Menke

Architect: Beckhart & Mill

Structural Engineer: George O Dyer

Ready Mix Plant: Blue Diamond - Santa Fe

DATE OF INSPECTION	1/26/67			
Mix Specified	OT 2839-2			
	1 Cu. Yd.	7 Yd. Batch	1 Cu. Yd.	___ Yd. Batch
Cement, sks.	6.00	42.00		
Cement, lbs.	564	3948		
W.C. Sand, lbs.	1415	9905		
% Moisture in Sand	6%			
Coarse Agg. (No. 4)				
Coarse Agg. (No. 3)	1840	12880		
Coarse Agg. (No. 2)				
Water in Agg., gal.	9.6	67.2		
Adder Water, gal.	27.0	189.0		
Total Water used, gal.	36.6	256.2		
Total Allow. Water, gal.	37.0	273.0		
Admixture	Red Label Suc 1 pt/sack	42 pts		
Cu. Yds. loaded		293		

Cement — Brand & Test: Colton II - Silo 16-35 1/24/67

Inspector: Charles Troy

Remarks
1-General Telephone Co
1-Beckhart & Mill
1-George O Dyer
2-MacIsaac & Menke
1-Irwindale Bldg Dept

Respectfully submitted,

RAYMOND G. OSBORNE LABORATORIES, INC.

By Louis D. Turley

ba7

Raymond G. Osborne, LABORATORIES, INC.

Testing and Inspection Engineers

RECEIVED FEB 6 9 25 AM '67 CITY OF

DAILY REPORT OF INSPECTION OF REINFORCED CONCRETE

Building Permit No. 1203 Date of Inspection January 26, 1967

Job Identification GENERAL TELEPHONE ENGRG. & STORERM. BLDG., 5010 No. Azusa Canyon Rd. Irwindale.

Architect Beckhart & Mill Structural Engineer George O. Dyer

General Contractor MacIsaac & Menke

CONCRETE MIX PROPORTIONS

Mix Designation 2829-2 Admixture Red Label Suconem 1 pt./sk

Field Weights: Cement 3948 No. Cu. Yds. 7

Sand 9905 Water Added at Plant 189

No. 4 Gravel Water Added at Job 4

No. 3 Gravel 12880 Water in Aggregate 67

No. 2 Gravel Total Water Used 260 Total Allow. 273

Average Slump 4½" Test Specimens Marked 1 thru 18

Concrete Plant Blue Diamond Cement Test & Brand Colton II

Reinforcing Steel: Furnished by Jack Isbell Tested by Mill

Placing Steel Checked by Jay Purvis

CONCRETE: Cu. Yds. Placed 293 Spec. P.S.I. at 28 Days 3000#

Location in Structure: 2nd floor slab.

CERTIFICATE OF COMPLIANCE

H. E. Carroll
A. N. Stull
Jay Purvis

Registered Deputy Building Inspector's Certificate Signed by Inspector has been filed and it states that the above work was inspected by him in accordance with the provisions of the Building Code applicable thereto.

Respectfully submitted,
RAYMOND G. OSBORNE LABORATORIES, INC.

LH: 6

By James R. Farley

Test made for: General Telephone Co

Job Identification: GENERAL TELEPHONE ENGRG & STOREROOM BLDG
5010 N Azusa Canyon Rd - Irwindale

Location in Structure: EXTERIOR CONCRETE RETAINING WALL SOUTH END BLDG B

Raymond G. Osborne, LABORATORIES, INC.
Testing and Inspection Engineers

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FEB 6 9 25 AM '67
CITY OF IRWINDALE

DESIGN OF CONCRETE

Date 2/2/67

Job Identification GENERAL TELEPHONE ENGRG & STORERM BLDG - 5010 N Azusa Canyon Rd Irwindale

Architect: Beckhart & Mill

Structural Engineer: George O Dyer

General Contractor: MacIsaac & Menke

Concrete by: Blue Diamond - Santa Fe

Specifications requirements: 3000 psi - 1" Concrete @ 28 Days

Cement: Colton

Aggregate: Santa Fe

Quantities Per Cu. Yd. (Agg. sat. surf. dry)

Mix No. OT 2839-5
3000 psi - 1" PUMP

Cement - Sks/cu. yd.	6.25			
Cement - Lbs.	588			
Sand, Lbs.	1485			
No. 4 Gravel, Lbs.	315			
No. 3 Gravel, Lbs.	1355			
No. 2 Gravel, Lbs.	----			
Water, Lbs.	308			
Total Weight	4051			
Water, gal.	37.0			
Water, gal./Sk.	6.50			
Slump, calculated	3" - 5"			
Admixture	*	* RED LABEL SUCONEM TO BE		
		ADDED (1 pt/sk)	AS REQUIRED	
Max. Water allowable	40.6	AT JOB SITE.		

Distr. List 1-Gen Tel 1-Arcths 1-Engr 2-Contrs 1-Irwindale Bldg Dept
ba7+1) 1-Blue Diamond

Respectfully submitted,
RAYMOND G. OSBORNE LABORATORIES, INC.

By S C Chang CE 15211

Ed file

Raymond G. Osborne, LABORATORIES, INC.

Testing and Inspection Engineers

RECEIVED
MAY 8 9 20 AM '67
CITY OF IRWINDALE

COMPRESSION TEST REPORT

Test made for: General Telephone Co

Job Identification: GENERAL TELEPHONE ENGRG & STOREROOM BLDG
5010 N Azusa Canyon Rd - Irwindale

Location in Structure: EXTERIOR CONCRETE RETAINING WALL SOUTH END BLDG B

LABORATORY DATA

Laboratory Number	38509	38510		
Mark	425A	B	C	
Date moulded	4/25/67	4/25	4/25	
Date tested	5/2/67	5/23		
Age, days	7	28		
Weight per cu. ft., lbs.	148	149	149	
Dimensions, (inches)	6.0x12.0	6.0x12.0	6.0x12.0	
Area, sq. in.	28.27	28.27	28.27	
Compressive Strength				
Total Load lbs.	86,500			
Lbs. per sq. in.	3,060			

FIELD DATA

MIX: OT 2839-2 - Load #1
Cement 3948 - 7 yds
Sand 9996
No. 4
No. 3 13006
No. 2
Water 258+10
273

Specified Strength @ 28 days 3000 psi
Slump 4-1/2"
Admixture None
Ready Mix Plant Blue Diamond
Cyls. made by H E Olcott
Date cyls. delivered
Cement: Colton II Silo 14 14-27

1-General Telephone Co
1-Beckhart & Mill
1-George O Dyer
2-MacIsaac & Menke
1-Irwindale Bldg Dept
1-Blue Diamond

Respectfully submitted,
RAYMOND G. OSBORNE LABORATORIES, Inc.

By [signature]

ba7

Appendix D
DPR Forms

State of California □ The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #____
HRI #
Trinomial
NRHP Status Code 6Z
Other
Listings _____
Review Code _____ Reviewer _____ Date _____

Page 1 **of** 11 ***Resource Name or #:** (Assigned by recorder) 5010 Azusa Canyon Road
P1. Other Identifier: _____
***P2. Location:** □ **Not for Publication** ☒ **Unrestricted**
***a. County** Los Angeles **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** Baldwin Park **Date** 2015 **T** 1S ; **R** 10W ; __ □ **of** __ □ **of Sec** 9__; ____**B.M.**
c. Address 5010 Azusa Canyon Road City Irwindale Zip 91706
d. UTM: (Give more than one for large and/or linear resources) Zone __, _____ mE/ _____ mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
APN: 8417-025-800

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The Office Building occupies a parcel on the east side of Azusa Canyon Road. It is improved with a two-story mid-century modern commercial building built in 1963 along the front (west) property line. [See Continuation Sheets]

***P3b. Resource Attributes:** (List attributes and codes) HP8(Industrial Building)
***P4. Resources Present:**
☒ Building □ Structure □ Object □ Site □ District □ Element of District
□ Other (Isolates, etc.)
P5b. Description of Photo: (view, date, accession #) Primary (west) elevation, view southeast
***P6. Date Constructed/Age and Source:** ☒ Historic □ Prehistoric □ Both
1963/Los Angeles County Assessor

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)

***P7. Owner and Address:**
Overton Moore Properties
19300 South Hamilton Ave, #200
Gardena, CA 90248
***P8. Recorded by:** (Name, affiliation, and address) Hanna Winzenried
ESA
626 Wilshire Blvd., Suite 1100
Los Angeles, CA 90017
***P9. Date Recorded:** May, 2018
***P10. Survey Type:** (Describe)
Intensive Pedestrian
***P11. Report Citation**: (Cite survey report and other sources, or enter "none.")
ESA, 5010 Azusa Canyon Road, Irwindale, California: Historic Resource Assessment, May 2018
***Attachments:** □NONE □Location Map ☒Continuation Sheet ☒Building, Structure, and Object Record □Archaeological Record □District Record □Linear Feature Record
□Milling Station Record □Rock Art Record
□Artifact Record □Photograph Record □Other (List): _____

State of California ☐ The Resources Agency Primary # _____
DEPARTMENT OF PARKS AND RECREATION HRI# _____

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 5010 Azusa Canyon Road ***NRHP Status Code** 6Z
Page 2 **of** 11

B1. Historic Name: _____
B2. Common Name: _____
B3. Original Use: Industrial building B4. Present Use: Industrial Building
***B5. Architectural Style:** Mid-Century Modern
***B6. Construction History:** (Construction date, alterations, and date of alterations)

The original building permits for the property were issued to owner General Telephone Company of California on January 15, 1957 for the delivery of concrete. The building permit for the original office building and warehouse that were destroyed by fire was issued on March 13, 1957. The architect was Daniel, Mann, Johnson, & Mendenhall (DMJM). The first permit called for a 25'x550' two-story office and warehouse building valued at $290,000.00. On November 12, 1957, a permit was issued for a 40'x225' vehicle service building to be built on the north property line and to be designed by DMJM. Also built in 1957 was a gasoline pump canopy, salvage shed, and tool shed. In 1964, a permit was issued for telephone equipment storage and vehicular access as well as a liquid gas storage shelter and a tool shed. [See Continuation Sheets]

***B7. Moved?** ☒No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:**

B9a. Architect: Beckhart & Mill **b. Builder**: _____
***B10. Significance: Theme** Commercial and Industrial Development of Irwindale; Mid-Century Modern style (1945-1970), Utilitarian style (1860-present); and architects Beckhart & Mill and DMJM **Area** Irwindale
Period of Significance 1964 **Property Type** Industrial building **Applicable Criteria** _____
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

The Project Site was evaluated under the following historical and architectural themes: Commercial and Industrial Development of Irwindale; Mid-Century Modern style (1945-1970), Utilitarian style (1860-present); and architects Beckhart & Mill and DMJM. ESA also conducted research on the Project Site's construction and occupancy history. ESA evaluated the Project Site against the criteria for the National Register, California Register, and as a local landmark.

ESA found the buildings and the structure on the Project Site ineligible under all applicable federal and state criteria. Furthermore, ESA found the buildings and structure on the Project Site ineligible at the local level under all criteria (A through H).
[See Continuation Sheets]

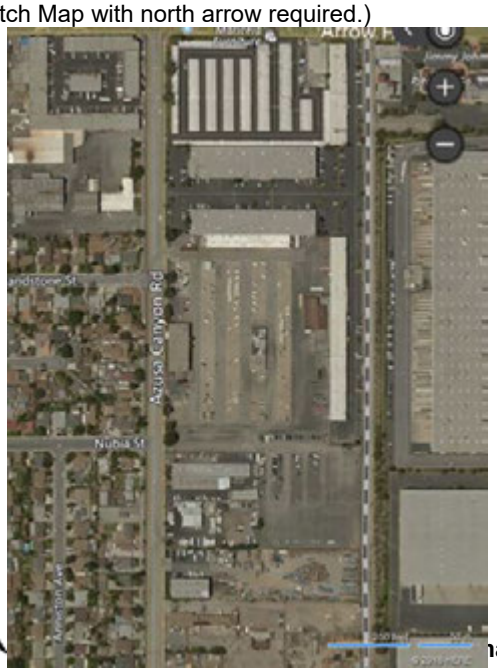
B11. Additional Resource Attributes: (List attributes and codes) _____
***B12. References:**
[See Continuation Sheets]

B13. Remarks:

***B14. Evaluator:** Hanna Winzenried
***Date of Evaluation:** May 2018

(This space reserved for official comments.)

(Sketch Map with north arrow required.)



***P3a. Description (continued)**:

The Office Building occupies a parcel on the east side of Azusa Canyon Road. It is improved with a two-story mid-century modern commercial building built in 1963 along the front (west) property line.

Office Building

The Office Building is a rectangular shaped, westward oriented building with horizontal massing, clad in yellow brick, concrete framing, and curtain wall with aluminum mullions, asbestos spandrel panels, and a flat roof. In front of the building along the street is a long thin lawn area with bushes and mature trees on either side of the building. Vehicular access to the parking lot behind the subject building is on Nubia Street or through a driveway north of the structure.

The west (front) façade has an entry porch under a flat concrete slab and up concrete steps. The entryway is set back from the front façade. Above the entry porch is a ribbon of five iron-framed windows. To the south of the entryway are three additional sets of iron framed ribbon windows on the top and bottom floors.

The north (side) elevation has brick walls and concrete framing with one floor-to-ceiling iron window on the second floor and a glass and iron door on the first floor. The south (side) elevation has a floor-to-ceiling iron window on the second floor, a glass and iron door on the first floor, and grilles to the east.

Warehouse

The Warehouse is a large rectangular building located in the center of the parking lot that is built in the Utilitarian style and is simplistic in design. It has vertical wood siding with iron detailing at the windows and doors. The north portion is slightly higher than the south. It has aluminum windows and doors.

Fleet Maintenance Building

The Fleet Maintenance Building is located on the north lot line. It has 10 bays (garage openings with rolling garage doors. It has stucco siding and a flat roof. It is a Utilitarian style building and devoid of architectural character, and is utilitarian in function and design.

Barn

The Barn is located on the rear (east) property line. It is a Utilitarian style and void of architectural character. Its walls are made from corrugated iron and has a corrugated iron side-facing gable roof. There are three small door openings and one large door opening on the west façade.

Truck Wash

The Truck Wash is located west of the Fleet Maintenance Building. It is Utilitarian style structure and void of architectural character. It has corrugated metal walls with ribbon window openings near the flat roof. Its east and west elevations don't have walls to facilitate trucks driving through for cleaning.

*B6. Construction History (continued):

Subsequent of the fire that gutted the original warehouse/office building, General Telephone Co had a permit issued on June 17, 1966 for its demolition. On July 14, 1967, a permit was issued for a retaining wall, and on July 26, a permit was issued for a new 5,980 square foot Office Building and Warehouse designed by Beckhart & Mill valued at $370,000. A permit for an underground tank was issued on July 28, 1967, and for a new 6,750 square foot truck and for a 280 square foot gas island were issued on August 14, 1967. Two lubrication lifts were added to the existing vehicle service building on August 9, 1968, and an addition to the Truck Wash as well as the Office Building was permitted on November 7, 1969.

The Office Building was being remodeled and General Telephone Co. received a permit on January 9, 1985 for a trailer for temporary office use during the remodeling. On January 6, 1986, General Telephone Company of California and the architect R.T. Santos, AIA got a permit to remodel the Office Building to add a wall, four new doors, a unisex bathroom, exit ramp, air conditioning, and to rearrange the offices. The contractor was Larry Brown. The roofing of the main office building was repaired on March 12, 1986. On July 27, 1993, a permit was issued for industrial waste operations to treat/store/dispose industrial waste materials located at the facility. Further interior rehab was issued on October 14, 1994, June 7, 1995, and August 15, 1995. On February 13, 1996, a permit was issued to install a new fueling system. The architect was Tait and Associates and the contractor was Petroleum Contractors Inc. A new canopy designed by Wharton and Associates was issued on June 30, 1996.

After Verizon acquired the property, they were issued a permit on November 20, 2000 for a new Verizon sign. They also reroofed the building on April 7, 2014. The final permit to be issued was to Frontier Communications Inc. on September 14, 2016 for three new non-illuminated aluminum signs.

*B10. Significance (continued):

National Register and California Register

a. Broad Patterns of History

With regard to broad patterns of history, the following are the relevant criteria:

National Register Criterion A: Is associated with events that have made a significant contribution to the broad patterns of our history.

California Register Criterion 1: Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.

The buildings and structure (Office Building, Fleet Maintenance Building, Warehouse, Truck Wash, and Barn) on the Project Site do not significantly represent broad patterns of our history or heritage. The Project Site was first developed in 1957 with the Fleet Maintenance Building (extant) and the original office and warehouse building that were destroyed in a fire in 1966. In 1967, General Telephone Company built the remaining extant buildings and structure on the site to be able to dispatch and repair their fleet of trucks. By this time the area including the City of Irwindale were well established as a commercial industrial hub for the greater Los Angeles area, which began in the 1920s and diminished by 1970. Once the City was incorporated in 1957, the City continued to be dominated by the mining industry through the 1970s. Furthermore, the General Telephone Company within the City did not have a significant impact on the City of Irwindale, California or United States. **As result, the Project Site is recommended ineligible for listing under National Register Criterion A and California Register Criterion 1 for its significant historical associations with Commercial and Industrial Development of Irwindale.**

b. Significant Persons

With regard to associations with important persons, the following are the relevant criteria:

National Register Criterion B: Is associated with the lives of persons significant in our past.

California Register Criterion 2: Is associated with the lives of persons important in our past.

There is no evidence to suggest the Project Site is associated with the productive lives of historic personages. The known longtime occupant of the Office Building and other buildings on the Project Site was General Telephone Company. No other individual people of importance were found to be associated with the Project Site. **Therefore, the Project Site is recommended ineligible for listing under National Register Criterion B or California Register Criterion 2**

c. Architecture

With regard to architecture, design, or construction, the following are the relevant criteria:

National Register Criterion C: Embodies the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction.

California Register Criterion 3: Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.

The Warehouse (1967), Fleet Maintenance Building (1957), Barn (1967), and Truck Wash (1967) are all simplistic and utilitarian in design and void of architectural detailing. As mentioned above, the Fleet Maintenance Building was designed by DMJM in 1957; the Warehouse, Barn, and Truck Wash were designed by Beckhart & Mill in 1967. These buildings and structures are not architecturally distinctive and have simple rectangular massing, flat or gabled roofs, a mix of cladding (stucco, steel, or aluminum siding). These buildings were utilitarian support facilities for the General Telephone Company operations

and were not architecturally or historically significant in design or development of commercial buildings. Furthermore, though they were designed by their respective architects DMJM, and Beckhart & Mill, these are not the best representative works of these two architectural firms. DMJM is considered an influential firm whom transformed much of the late twentieth century corporate architecture, the Fleet Maintenance Building is a simple long rectangular building with a Utilitarian style, a building that is not influential, nor distinctive, and does not rise to threshold of significance, which DMJM is known for.

The remaining buildings, including the Office Building were designed by local Eagle Rock architectural firm Beckhart & Mill. Early in the firm's career they designed many smaller low-key commercial buildings for different corporate entities (Ralph's, Janss Corporation, Electro-Optical Systems). It was not until the business became Harrison, Beckhart, & Mill in 1969 that the firm expanded their reach and developed their portfolio. Similar to the Fleet Maintenance Building, the Warehouse, Barn, and Truck Wash are not the best representation of the Beckhart & Mill firm, as these two buildings and structure are very simplistic and represent ancillary and support buildings for the General Telephone Company.

The Beckhart & Mill designed Office Building on the Project Site was designed in the Mid-Century Modern style, a prolific style throughout Southern California at the time. The Office Building, has some of the character-defining features of the style, such as a flat roof, flat concrete canopy over the entry, a curtain wall with aluminum mullions and asbestos spandrel panels. The Office Building's design, in particular, the curtain wall element with aluminum mullions and asbestos panels, was very popular across the United States and gained popularity in 1948 but withered by 1965. Some of the first buildings that featured the curtain wall were the Equitable Savings & Loan Building (1948) in Portland, Oregon and the Leverhouse (1952) in New York City. In Los Angeles County there are many excellent examples of the Mid-Century style by master architects including Welton Becket & Associates, William L. Pereira & Associates, O. Stiles Clement, and A.C. Martin. As a late addition to the Mid-Century Modern architectural landscape that only emulated the features of the popular style of the time, the Office Building on the Project Site was not original in its design and does not rise to the threshold of a building that exemplifies the style. Furthermore, Beckhart & Mill are not considered master, or even notable architects. Finally, the Office Building does not possess high artistic value and was not distinctive in its design. As such, the Office Building does not meet the criteria for listing on the National or California register. **Therefore, the Project Site is recommended ineligible for listing under National Register Criterion C and California Register Criterion 3.**

d. Data

National Register Criterion D. It yields, or may be likely to yield, information important in prehistory or history.

California Register Criterion 4. Has yielded, or may be likely to yield, information important in prehistory or history.

While most often applied to archaeological districts and sites, Criterion D/4 can also apply to buildings, structures, and objects that contain important information. In order for these types of properties to be eligible under Criterion D/4, they themselves must be, or must have been, the principal source of the important information. The buildings and structures on the Project Site do not appear to yield significant information that would expand our current knowledge or theories of design, methods of construction,

operation, or other information that is not already known about the period of significance of the Residence, its method of construction, or its design. **Therefore, the Project Site is recommended ineligible for listing under National Register Criterion D and California Register Criterion 4.**

3. City of Irwindale

Criteria for listing on the Official Register of Historic Places
A building or structure shall be designated a historic building if the City Council finds one or more conditions (including but not limited to the following) exist with reference to such building or structure:

Criterion A: A. The building or structure proposed for designation is particularly representative of a historic period, type, style, region, or way of life.

The buildings and structure (Office Building, Fleet Maintenance Building, Warehouse, Truck Wash, and Barn) do not particularly represent a specific historic period, type, region, or way of life. As mentioned in the historic context section, the City of Irwindale's commercial and industrial period began in the 1920s and culminated in the 1950s, when the City of Irwindale was incorporated. Early commercial buildings were built in the city to support the aggregate mining operations that Irwindale was known for. By 1957 and 1967 when the buildings were constructed on the Project Site, the City of Irwindale commercial and industrial identity was fully developed. Most of the buildings and the structure on the Project Site are simplistic and utilitarian in design, and are support buildings that do not reflect a particularly style or type. The Office Building on the Project Site is an example of the Mid Century style, but is not a particularly representative of the style, as there are many excellent examples of the style across Los Angeles County and Southern California. Furthermore, the buildings and structure on the Project Site do not represent a particular way of life as they include a commercial building and support buildings, which do not readily not communicate a way of life, unlike an aggregate mine or agricultural facility would represent a way of life. *Therefore, the Project Site is recommended not eligible under this criterion.*

Criterion B: B. The building or structure was connected with someone renowned, important, or a local personality.

There is no evidence to suggest the Project Site is associated with the productive lives of historic personages. The known longtime occupant of the Office Building and other buildings on the Project Site was General Telephone Company. No other individual people of importance were found to be associated with the Project Site. *Therefore, the Project Site is recommended not eligible under this criterion.*

Criterion C: The building or structure is connected with a business or use which was once common but is now rare.

The buildings on the Project Site are associated with the General Telephone Company, which merged with the Verizon company. Telecommunication companies are not a rare business as there are many examples with in Southern California, including AT&T, Verizon, Sprint, Frontier, Spectrum, Comcast, etc. *Therefore, the Project Site is recommended not eligible under this criterion.*

Criterion D: D. The building or structure represents the work of a master builder, engineer, designer, and artist or architect whose individual genius influenced his/her age.

The buildings on the Project Site were designed by two separate firms DMJM and Beckhart & Mill. The oldest is the Fleet Maintenance Building, which was designed by notable architect DMJM. However, this building features a utilitarian design and does not represent an excellent, or even good example of their work.

The other buildings and structures on the Project Site (Office Building, Warehouse, and Truck Wash) were designed by the architectural firm Beckhart & Mill. Beckhart & Mill were architects that primarily worked in East Los Angeles and Pasadena. Many of their early commissions were for commercial buildings and private residence and clients included Ralph's (Grocery Stores), General Telephone of California, Janss Corporation, Electro-Optical Systems Inc., and Pacific Telephone. Beckhart & Mill did not influence the trends of architecture, or the Modern style, which they most often designed in and are not considered master architects. *Therefore, the Project Site is recommended not eligible under this criterion.*

Criterion E: The building or structure is the site of an important historic event or is associated with events that have made a meaningful contribution to the nation, state or city.

No important events were identified in research that indicated that the building and structures on the Project Site are not associated with events that have made a meaningful contribution to the nation, state, or city. The Project Site was built for the General Telephone Company who used the facility for office, storage, and fleet maintenance and dispatch. Only one event was documented on the Project Site, which was a 1966 fire that caused damage to the original office and warehouse, which does not contribute to nation, state, or city history. *Therefore, the Project Site is recommended not eligible under this criterion.*

Criterion F: The building or structure exemplifies a particular architectural style.

The Office Building on the Project Site is the only building with a notable style. The Office Building was designed in the Mid-Century Modern style in 1967, toward the latter end of the Mid-Century style movement. The Office Building has some of the character-defining features of the style, such as a flat roof, flat concrete canopy over the entry, a curtain wall with aluminum mullions and asbestos spandrel panels. The Office Building design in particular, the curtain wall element with aluminum mullions and asbestos panels, was very popular across the United States and gained popularity in 1948 and withered by 1965. Some of the first buildings that featured the curtain wall were the Equitable Savings & Loan Building (1948) in Portland, Oregon and the Leverhouse (1952) in New York City. In Los Angeles County there are many excellent examples of the Mid-Century style by master architects including Welton Becket & Associates; William L. Pereira & Associates; Skidmore, Owings, & Merrill; and A.C. Martin. The Office Building on the property does not rise to the threshold of a building that exemplifies the style, and furthermore it is a late addition to the Mid-Century Modern architectural landscape, and only emulated the popular style of the time and was not original in design. *Therefore, the Project Site is recommended not eligible under this criterion.*

Criterion G. The building or structure exemplifies the best remaining architectural type of a neighborhood.

As mentioned above, the only building with a notable style is the Office Building designed in the Mid-Century Modern style in 1967. Though the Mid-Century style is not popular in commercial buildings with

in Irwindale, there is another excellent example within the City, which was a precursor to the original DMJM building and the Office Building on the Project Site. The 1950 Electrotechnic Corporation building at 15601 Arrow Highway was one of the earliest Mid-Century Modern designed building in the City and reflects the early trends in the style. This building along with the larger Mid-Century style movement in Southern California most likely influenced General Telephone's first commission for an office and warehouse building by DMJM in 1957. After the fire in 1966 that destroyed the original office building and warehouse, General Telephone commissioned local architects to design a similar style building on the Project Site. As such, the Office Building on the Project Site is not the best remaining architectural type remaining. *Therefore, the Project Site is recommended not eligible under this criterion.*

Criterion H: The construction materials or engineering methods used in the building or structure embody elements of outstanding attention to architectural or engineering design, detail, material or craftsmanship.

The four buildings and structure on the Project Site do not embody elements of outstanding attention to architectural or engineering design, material, or craftsmanship. The buildings and structure use common place materials such as brick, concrete block, aluminum mullions, large glazing (which has been extensively replaced throughout the building), and other prefabricated materials. *Therefore, the Project Site is recommended not eligible under this criterion.*

***B12. References (continued):**

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APPENDIX D

Geotechnical Investigation

GEOTECHNICAL INVESTIGATION
TWO PROPOSED WAREHOUSE BUILDINGS

5010 Azusa Canyon Road
Irwindale, California
for
Overton Moore Properties

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

February 27, 2017

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Overton Moore Properties
19300 S. Hamilton Ave, Suite 200
Gardena, California 90248

Attention: Mr. Jason Hines
Vice President

Project No.: **17G113-1**

Subject: **Geotechnical Investigation**
Two Proposed Warehouse Buildings
5010 Azusa Canyon Road
Irwindale, California

Gentlemen:

In accordance with your request, we have conducted a geotechnical investigation at the subject site. We are pleased to present this report summarizing the conclusions and recommendations developed from our investigation.

We sincerely appreciate the opportunity to be of service on this project. We look forward to providing additional consulting services during the course of the project. If we may be of further assistance in any manner, please contact our office.

Respectfully Submitted,

SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

Joseph Lozano Leon
Staff Engineer

Robert G. Trazo, M.Sc., GE 2655
Principal Engineer

REGISTERED PROFESSIONAL ENGINEER
ROBERT TRAZO
No. 2655
GEOTECHNICAL
STATE OF CALIFORNIA

Distribution: (1) Addressee

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1.0 EXECUTIVE SUMMARY

Presented below is a brief summary of the conclusions and recommendations of this investigation. Since this summary is not all inclusive, it should be read in complete context with the entire report.

Geotechnical Design Considerations

- Artificial fill soils were encountered at all of trench locations, with the exception of Trench Nos. T-2 and T-3, extending from the ground surface to depths of 2 to 5½± feet.
- The fill soils and near-surface alluvial soils possess low strengths. In addition, the existing fill soils are considered to represent undocumented fill. These soils, in their present condition, are not considered suitable for support of the foundation loads of the new structures.
- Remedial grading will be necessary to remove all of the undocumented fill soils in their entirety as well as the upper portion of the near-surface native alluvium soils, and replace these materials as compacted structural fill.
- It should be noted that the northern wall of the northern-most existing building appears to be in a zero-lot-condition with respect to the northern property line and the building/s on the northern adjacent property. Demolition and excavation operations within this area should be performed in order to prevent the undermining of the influence zones of the neighboring building foundations as it is stated in section 1803.5.7 Excavation near foundations of the 2016 CBC. Special demolition techniques may be required in order to protect the existing structures.

Site Preparation Recommendations

- The site plan provided to our office indicates that several existing structures at the subject site will be demolished in order to facilitate the construction of the proposed development. Demolition should include all foundations, floor slabs, pavements, utilities and any other subsurface improvements that will not remain in place with the new development. Debris resultant from demolition should be disposed of offsite. Alternatively, concrete and asphalt debris may be pulverized to a maximum 2-inch particle size, well mixed with the on-site soils, and incorporated into new structural fills or it may be crushed and made into CMB.
- Remedial grading is recommended to be performed within the proposed building areas in order to remove all of the artificial fill soils and a portion of the native alluvium soils. The soils within the proposed building areas should be overexcavated to a depth of 3 feet below existing grade and to a depth of at least 3 feet below proposed building pad subgrade elevations.
- The depth of overexcavation should also be sufficient to remove any existing fill soils. The proposed foundation influence zones should be overexcavated to a depth of at least 2 feet below proposed foundation bearing grade.
- Following completion of the overexcavation, the exposed soils should be scarified and moisture conditioned to achieve a moisture content of 2 to 4 percent above optimum moisture, to a depth of at least 12 inches. The overexcavation subgrade soils should then be recompacted to at least 90% of the ASTM D-1557 maximum dry density. The previously excavated soils may then be replaced as compacted structural fill.
- The new pavement and flatwork subgrade soils are recommended to be scarified to a depth of 12± inches, thoroughly moisture conditioned and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density.

Foundation Design Recommendations

- Conventional shallow foundations, supported in newly placed compacted fill.
- 3,000 lbs/ft^2 maximum allowable soil bearing pressure.
- Reinforcement consisting of at least two (2) No. 5 rebars (1 top and 1 bottom) in strip footings. Additional reinforcement may be necessary for structural considerations.

Building Floor Slab Design Recommendations

- Conventional Slab-on-Grade: minimum 5 inches thick.
- Modulus of Subgrade Reaction: k = 150 psi/in.
- Reinforcement is not expected to be necessary for geotechnical considerations.
- The actual thickness and reinforcement of the floor slab should be determined by the structural engineer.

Pavement Design Recommendations

ASPHALT PAVEMENTS (R=60)					
Materials	**Thickness (inches)**				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	3	3	3	3	4
Compacted Subgrade	12	12	12	12	12

PORTLAND CEMENT CONCRETE PAVEMENTS (R=60)				
Materials	**Thickness (inches)**			
	Autos and Light Truck Traffic (TI = 6.0)	Truck Traffic		
		TI = 7.0	TI = 8.0	TI = 9.0
PCC	5	6	7	8
Compacted Subgrade (95% minimum compaction)	12	12	12	12

2.0 SCOPE OF SERVICES

The scope of services performed for this project was in accordance with our Proposal No. 16P440, dated November 21, 2016. The scope of services included a visual site reconnaissance, subsurface exploration, field and laboratory testing, and geotechnical engineering analysis to provide criteria for preparing the design of the building foundations, building floor slabs, and parking lot pavements along with site preparation recommendations and construction considerations for the proposed development. The evaluation of the environmental aspects of this site was beyond the scope of services for this geotechnical investigation.

3.0 SITE AND PROJECT DESCRIPTION

3.1 Site Conditions

The subject site is located on the east side of Azusa Canyon Road east of the intersection with Sandstone Street at the street address of 5010 Azusa Canyon Road in Irwindale, California. The site is bounded to the north by existing commercial/industrial buildings, to the west by Azusa Canyon Road and commercial/industrial buildings, to east by a railroad easement and commercial/industrial buildings, and to the south by commercial/industrial buildings. The general location of the site is illustrated on the Site Location Map, enclosed as Plate 1 in Appendix A of this report.

The site consists of two (2) contiguous rectangular-shaped parcels, which total 10.64± acres. The site is currently being utilized by Frontier Communications and is fully operational. The northern parcel, 8.22±, acres in size, is currently developed with four (4) buildings and several storage containers and canopies. An office building is located in the west-central area of the northern parcel and has a footprint of approximately 9,750 ft^2. This building is a two-story structure of masonry block construction. The three other buildings located in the northern parcel are single-story buildings of wood frame and stucco construction and assumed to be supported on conventional shallow foundations with a concrete slab-on-grade floor. The building located in the northern portion of the northern parcel, with its northern wall directly on the northern property line, is approximately 9,500 ft^2 in size. The building located in the central portion of the northern parcel is approximately 5,860 ft^2 in size. The building located in the east-central portion of the northern parcel is approximately 6,000 ft^2 in size and utilizes metal siding. There is also a 280± ft^2 storage shed located in the northeastern portion of the northern parcel. The ground surface surrounding the buildings consists of asphaltic concrete and Portland cement concrete pavements. The southern parcel, 2.42± acres in size, is developed as an asphaltic concrete parking lot for the Frontier Communications facility. The pavements in both parcels are in poor to fair condition with moderate to severe cracking throughout.

As part of our research, we reviewed available data in order to determine any environmental concerns within the subject site. The primary reference used was obtained from the California State Water Resources Control Board, GeoTracker, website, http://geotracker.waterboards.ca.gov/. Records for the subject site indicate the presence of an underground storage tank (UST) and is identified as General Telephone Co. (T0603704631).

Aerial photographs from 1964 and 1965 indicate the presence of a building located to the northeast of the intersection of Nubia Street and Azusa Canyon Road within the subject site. Aerial photographs indicate that the previously existing building was demolished between 1965 and 1972. Furthermore, aerial photographs indicate that the subject site was developed to its current condition in 1972.

Detailed topographic information was not available at the time of this report. However, based on topographic information obtained from Google Earth, the site topography ranges from 460± feet

mean sea level (msl) in the northern area of the site to 451± feet msl in the southern area of the site. The site topography slopes gently downward toward the south at a gradient of approximately 1± percent.

3.2 Proposed Development

A conceptual site plan, prepared by HPA Architecture for the proposed development was provided to our office by the client. Based on the site plan, two (2) new warehouse buildings, identified as Building 1 and Building 2, will be constructed at the subject site. The northern parcel will be developed with Building 1 (185,260± ft^2 in size), with a loading dock along the east side of the building. The southern parcel will be developed with Building 2 (49,050± ft^2 in size) with a loading dock along the north side of the building. It is assumed that both of the buildings will be surrounded by asphaltic concrete pavements in the parking and drive area and Portland cement concrete pavements in the truck court areas. Limited areas of landscaped planters and concrete flatwork may also be included in the proposed development.

Detailed structural information has not been provided. It is assumed that the new buildings will be of concrete tilt-up construction, typically supported on conventional shallow foundations, with concrete slab-on-grade floors. Based on the assumed construction, maximum column and wall loads are expected to be on the order of 80 kips and 3 to 5 kips per linear foot, respectively.

No significant amounts of below grade construction, such as basements or crawl spaces, are expected to be included in the proposed development. Based on the assumed topography, cuts and fills of up to 5± feet are expected to be necessary to achieve the proposed site grades. It should be noted that this estimate does not include any remedial grading recommendations which are presented in a subsequent section of this report.

4.0 SUBSURFACE EXPLORATION

4.1 Scope of Exploration/Sampling Methods

The subsurface exploration conducted for this project consisted of nine (9) exploratory trenches (identified as Trench Nos. T-1 through T-9) excavated to depths of 5½ to 11½± feet below the existing site grades. The trenches were excavated using a backhoe with a 24-inch wide bucket. All of the trenches were logged during excavation by a member of our staff.

Representative bulk and in-situ soil samples were taken during excavation. Relatively undisturbed in-situ samples were taken at Trench Nos. T-7 and T-9 at depths of 2± feet below the existing site grades. The relatively undisturbed samples were taken with a split barrel "California Sampler" containing a series of one inch long, 2.416± inch diameter brass rings. This sampling method is described in ASTM Test Method D-3550. The relatively undisturbed ring samples were placed in molded plastic sleeves that were then sealed and transported to our laboratory. Bulk samples were collected in plastic bags to retain their original moisture content. The bulk samples were then sealed and also transported to our laboratory.

The approximate trench locations are indicated on the Trench Location Plan, included as Plate 2 in Appendix A of this report. The Trench Logs, which illustrate the conditions encountered at the trench locations, as well as the results of some of the laboratory testing, are included in Appendix B.

4.2 Geotechnical Conditions

Pavements

Asphaltic concrete pavements were encountered at the ground surface at all of the trench locations. At these locations, the pavement section consists of 2 to 6½± inches of asphaltic concrete, underlain by 0 to 4± inches of aggregate base.

Artificial Fill

Artificial fill soils were encountered beneath the asphaltic concrete pavements at all of trench locations, with the exception of Trench Nos. T-2 and T-3, extending to depths of 2 to 5½± feet below the existing site grades. The fill soils generally consist of medium dense silty sands to sandy silts with varying amounts of fine to coarse gravel. The fill soils possess a disturbed appearance, and some samples possess debris (asphaltic concrete/brick fragments and metal) resulting in their classification as artificial fill.

Alluvium

Native alluvial soils were encountered beneath the pavements at Trench Nos. T-2 and T-3 and beneath the fill soils at the remaining trench locations, extending to the maximum depth explored of 11½± feet. The alluvium generally consists of medium dense to very dense sands, sandy gravel and gravelly sands with occasional to extensive cobbles and boulders.

Groundwater

Free water was not encountered during excavation of any of the trenches. Based on the lack of any water within the trenches, and the moisture contents of the recovered soil samples, the static groundwater table is considered to have existed at a depth in excess of 11½± feet at the time of the subsurface exploration.

As part of our research, we reviewed available groundwater data in order to determine the historic high groundwater level for the site. The primary reference used to determine the historic groundwater depths in this area is CGS Open File Report 98-13, the Seismic Hazard Evaluation of the Baldwin Park Quadrangle which indicates that the historic high groundwater level for the site was 160 feet below the ground surface. More recent water level data was obtained from the California Department of Water Resources website, http://www.water.ca.gov/waterdatalibrary/. The nearest monitoring well is located approximately 3,900 feet south of the site. Water level readings within this monitoring well indicates high groundwater levels of 174± feet (January 2012) below the ground surface. Therefore, the high groundwater depth of 160 feet reported in OFR 98-13 is considered to be conservative with respect to the recent site conditions.

5.0 LABORATORY TESTING

The soil samples recovered from the subsurface exploration were returned to our laboratory for further testing to determine selected physical and engineering properties of the soils. The tests are briefly discussed below. It should be noted that the test results are specific to the actual samples tested, and variations could be expected at other locations and depths.

Classification

All recovered soil samples were classified using the Unified Soil Classification System (USCS), in accordance with ASTM D-2488. Field identifications were then supplemented with additional visual classifications and/or by laboratory testing. The USCS classifications are shown on the Trench Logs and are periodically referenced throughout this report.

In-situ Density and Moisture Content

The density has been determined for selected relatively undisturbed ring samples. These densities were determined in general accordance with the method presented in ASTM D-2937. The results are recorded as dry unit weight in pounds per cubic foot. The moisture contents are determined in accordance with ASTM D-2216, and are expressed as a percentage of the dry weight. These test results are presented on the Trench Logs.

Consolidation

Selected soil samples have been tested to determine their consolidation potential, in accordance with ASTM D-2435. The testing apparatus is designed to accept either natural or remolded samples in a one-inch high ring, approximately 2.416 inches in diameter. Each sample is then loaded incrementally in a geometric progression and the resulting deflection is recorded at selected time intervals. Porous stones are in contact with the top and bottom of the sample to permit the addition or release of pore water. The samples are typically inundated with water at an intermediate load to determine their potential for collapse or heave. The results of the consolidation testing are plotted on Plates C-1 and C-2 in Appendix C of this report.

Maximum Dry Density and Optimum Moisture Content

A composite representative bulk sample, from the upper 5 feet of Trench Nos. T-5 and T-8, has been tested for its maximum dry density and optimum moisture content. The results have been obtained using the Modified Proctor procedure, per ASTM D-1557, and are presented on Plate C-3 in Appendix C of this report. These tests are generally used to compare the in-situ densities of undisturbed field samples, and for later compaction testing. Additional testing of other soil types or soil mixes may be necessary at a later date.

Soluble Sulfates

Representative samples of the near-surface soils were submitted to a subcontracted analytical laboratory for determination of soluble sulfate content. Soluble sulfates are naturally present in soils, and if the concentration is high enough, can result in degradation of concrete which comes

into contact with these soils. The results of the soluble sulfate testing are presented below, and are discussed further in a subsequent section of this report.

Sample Identification	Soluble Sulfates (%)	Sulfate Classification
T-1 @ 0 to 5 feet	0.002	Negligible
T-8 @ 0 to 5 feet	0.003	Negligible

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of our review, field exploration, laboratory testing and geotechnical analysis, the proposed development is considered feasible from a geotechnical standpoint. The recommendations contained in this report should be taken into the design, construction, and grading considerations. The recommendations are contingent upon all grading and foundation construction activities being monitored by the geotechnical engineer of record. The Grading Guide Specifications, included as Appendix D, should be considered part of this report, and should be incorporated into the project specifications. The contractor and/or owner of the development should bring to the attention of the geotechnical engineer any conditions that differ from those stated in this report, or which may be detrimental for the development.

6.1 Seismic Design Considerations

The subject site is located in an area which is subject to strong ground motions due to earthquakes. The performance of a site specific seismic hazards analysis was beyond the scope of this investigation. However, numerous faults capable of producing significant ground motions are located near the subject site. Due to economic considerations, it is not generally considered reasonable to design a structure that is not susceptible to earthquake damage. Therefore, significant damage to structures may be unavoidable during large earthquakes. The proposed structures should, however, be designed to resist structural collapse and thereby provide reasonable protection from serious injury, catastrophic property damage and loss of life.

Faulting and Seismicity

Research of available maps indicates that the subject site is not located within an Alquist-Priolo Earthquake Fault Zone. Furthermore, SCG did not identify any evidence of faulting during the geotechnical investigation. Therefore, the possibility of significant fault rupture on the site is considered to be low.

Seismic Design Parameters

The 2016 California Building Code (CBC) was adopted by all municipalities within Southern California on January 1, 2017. The CBC provides procedures for earthquake resistant structural design that include considerations for on-site soil conditions, occupancy, and the configuration of the structure including the structural system and height. The seismic design parameters presented below are based on the soil profile and the proximity of known faults with respect to the subject site.

The 2016 CBC Seismic Design Parameters have been generated using U.S. Seismic Design Maps, a web-based software application developed by the United States Geological Survey. This software application, available at the USGS web site, calculates seismic design parameters in accordance with the 2016 CBC, utilizing a database of deterministic site accelerations at 0.01 degree intervals. The table below is a compilation of the data provided by the USGS application. A copy of the output generated from this program is included in Appendix E of this report. A copy

of the Design Response Spectrum, as generated by the USGS application is also included in Appendix E. Based on this output, the following parameters may be utilized for the subject site:

2016 CBC SEISMIC DESIGN PARAMETERS

Parameter		Value
Mapped Spectral Acceleration at 0.2 sec Period	S_S	2.040
Mapped Spectral Acceleration at 1.0 sec Period	S_1	0.720
Site Class	---	D
Site Modified Spectral Acceleration at 0.2 sec Period	S_{MS}	2.040
Site Modified Spectral Acceleration at 1.0 sec Period	S_{M1}	1.080
Design Spectral Acceleration at 0.2 sec Period	S_{DS}	1.360
Design Spectral Acceleration at 1.0 sec Period	S_{D1}	0.720

Liquefaction

Liquefaction is the loss of strength in generally cohesionless, saturated soils when the pore-water pressure induced in the soil by a seismic event becomes equal to or exceeds the overburden pressure. The primary factors which influence the potential for liquefaction include groundwater table elevation, soil type and plasticity characteristics, relative density of the soil, initial confining pressure, and intensity and duration of ground shaking. The depth within which the occurrence of liquefaction may impact surface improvements is generally identified as the upper 50 feet below the existing ground surface. Liquefaction potential is greater in saturated, loose, poorly graded fine sands with a mean (d_{50}) grain size in the range of 0.075 to 0.2 mm (Seed and Idriss, 1971). Non-sensitive clayey (cohesive) soils which possess a plasticity index of at least 18 (Bray and Sancio, 2006) are generally not considered to be susceptible to liquefaction, nor are those soils which are above the historic static groundwater table.

The Seismic Hazards Map for the Baldwin Park, California 7.5 Minute Quadrangle, published by the California Geological Survey (CGS) indicates that the subject site is not located within a designated liquefaction hazard zone. In addition, the subsurface conditions encountered at the site are not considered to be conducive to liquefaction. Based on the mapping performed by CGS and the conditions encountered at the trench locations, liquefaction is not considered to be a significant design concern for this project.

6.2 Geotechnical Design Considerations

General

The ground surface at the site generally consists of asphaltic concrete pavements which are in poor to fair condition with moderate to severe cracking throughout. Artificial fill soils were encountered beneath the pavement at all of the trench locations, with the exception of Trench Nos. T-2 and T-3, extending to depths of 2 to 5½± feet below the existing site grades. No

documentation regarding the placement or compaction of these fill soils is known to exist. Based on these characteristics, the existing fill materials are considered to represent undocumented fill. Native alluvium was encountered beneath the pavements at Trench Nos. T-2 and T-3 and beneath the undocumented fill soils at the remaining trench locations, extending to the maximum depth explored of 11½± feet. The alluvial soils generally consist of medium dense to very dense sandy gravel to gravelly sands with occasional to extensive cobbles and occasional boulders. The fill soils and near-surface alluvial soils possess low strengths. Based on these conditions, remedial grading is recommended within the proposed building areas to remove the existing undocumented fill materials and a portion of the underlying alluvium, and replace these materials as compacted structural fill.

Demolition of the existing pavements and structures is expected to cause significant disturbance to the near surface soils. Any soils disturbed during demolition should also be removed prior to the placement of structural fill soils.

Settlement

The recommended remedial grading will remove the existing undocumented fill soils and a portion of the near-surface native alluvium soils and replace these materials as compacted structural fill. The native alluvium soils that will remain in place below the recommended depth of overexcavation will not be subject to significant stress increases from the foundations of the new structures. Therefore, following completion of the recommended grading, post-construction settlements are expected to be within tolerable limits.

Expansion

The near-surface soils generally consist of silty sands, sands, and gravelly sands. These materials have been visually classified as very low to non-expansive. Therefore, no design considerations related to expansive soils are considered warranted for this site.

Soluble Sulfates

The results of the soluble sulfate testing indicate that the selected samples of the on-site soils contain negligible concentrations of soluble sulfates, in accordance with American Concrete Institute (ACI) guidelines. Therefore, specialized concrete mix designs are not considered to be necessary, with regard to sulfate protection purposes. It is, however, recommended that additional soluble sulfate testing be conducted at the completion of rough grading to verify the soluble sulfate concentrations of the soils which are present at pad grade within the building areas.

Shrinkage/Subsidence

Removal and recompaction of the near-surface fill and/or alluvial soils is estimated to result in an average shrinkage of 10 to 15 percent. Please note that based on the limited number of in-place density tests, this average shrinkage estimate should be considered to be a rough estimate. Minor ground subsidence is expected to occur in the soils below the zone of removal, due to settlement and machinery working. The subsidence is estimated to be 0.1± feet. This estimate may be used for grading in areas that are underlain by native alluvial soils.

These estimates are based on previous experience and the subsurface conditions encountered at the trench locations. The actual amount of subsidence is expected to be variable and will be dependent on the type of machinery used, repetitions of use, and dynamic effects, all of which are difficult to assess precisely.

Grading and Foundation Plan Review

No grading or foundation plans were available at the time of this report. It is therefore recommended that we be provided with copies of the preliminary plans, when they become available, for review with regard to the conclusions, recommendations, and assumptions contained within this report.

6.3 Site Grading Recommendations

The grading recommendations presented below are based on the subsurface conditions encountered at the trench locations and our understanding of the proposed development. We recommend that all grading activities be completed in accordance with the Grading Guide Specifications included as Appendix D of this report, unless superseded by site-specific recommendations presented below.

Demolition

The site plan provided to our office indicates that several existing structures at the subject site will be demolished in order to facilitate the construction of the proposed development. Demolition should include all foundations, floor slabs, pavements, utilities and any other subsurface improvements that will not remain in place with the new development. Debris resultant from demolition should be disposed of offsite. Alternatively, concrete and asphalt debris may be pulverized to a maximum 2-inch particle size, well mixed with the on-site soils, and incorporated into new structural fills or it may be crushed and made into CMB.

It should be noted that the northern wall of the northern-most building appears to be in a zero-lot-condition with respect to the northern property line and the building/s on the northern adjacent property. Demolition operations within the area of this northern-most building should be performed in order to prevent the undermining of the influence zones of the neighboring building foundations as it is stated in section 1803.5.7 Excavation near foundations of the 2016 CBC. Special demolition techniques may be required in order to protect the existing structures. **It is recommended that we be provided with copies of the preliminary demolition plans for review**.

Treatment of Existing Soils: Building Pads

Remedial grading should be performed within the proposed building pad areas in order to remove the existing undocumented fill soils, a portion of the underlying alluvium, and soils disturbed during demolition. Based on conditions encountered at the trench locations, the existing soils within the proposed building areas are recommended to be overexcavated to a depth of at least 3 feet below existing grade and to a depth of at least 3 feet below proposed building pad subgrade elevations, whichever is greater. **The depth of the overexcavation should also extend to a depth sufficient to remove all undocumented fill soils**. Undocumented fill soils at the

trench locations extend to depths of 2 to 5½± feet. Additional overexcavation should be performed within the influence zones of the new foundations, to provide for a new layer of compacted structural fill extending to a depth of at least 2 feet below proposed bearing grades.

The overexcavation areas should extend at least 5 feet beyond the building and foundation perimeters, and to an extent equal to the depth of fill below the new foundations. If the proposed structures incorporate any exterior columns (such as for a canopy or overhang) the area of overexcavation should also encompass these areas.

After a suitable overexcavation subgrade has been achieved, the exposed soils should be scarified to a depth of at least 12 inches and moisture conditioned to achieve a moisture content of 2 to 4 percent above optimum moisture content. The subgrade soils should then be recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. The building pad areas may then be raised to grade with previously excavated soils or imported structural fill.

Treatment of Existing Soils: Retaining Walls and Site Walls

The existing soils within the areas of proposed retaining and non-retaining site walls should be overexcavated to a depth of at least 2 feet below foundation bearing grade and replaced as compacted structural fill. Any undocumented fill soils within any of these foundation areas should be removed in their entirety. In both cases, the overexcavation subgrade soils should be evaluated by the geotechnical engineer prior to scarifying, moisture conditioning and recompacting the upper 12 inches of exposed subgrade soils. The previously excavated soils may then be replaced as compacted structural fill.

Treatment of Existing Soils: Parking and Drive Areas

Based on economic considerations, overexcavation of the existing near-surface soils in the new parking and drive areas is not considered warranted, with the exception of areas where lower strength or unstable soils are identified by the geotechnical engineer during grading.

Subgrade preparation in the new parking and drive areas should initially consist of removal of all soils disturbed during stripping and demolition operations. The geotechnical engineer should then evaluate the subgrade to identify any areas of additional unsuitable soils. The subgrade soils should then be scarified to a depth of 12± inches, moisture conditioned to 2 to 4 percent above optimum, and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. Based on the presence of variable strength soils throughout the site, it is expected that some isolated areas of additional overexcavation may be required to remove zones of lower strength, unsuitable soils.

The grading recommendations presented above for the proposed parking and drive areas assume that the owner and/or developer can tolerate minor amounts of settlement within the proposed parking areas. The grading recommendations presented above do not mitigate the extent of undocumented fill soils in the parking and drive areas. As such, settlement and associated pavement distress could occur. Typically, repair of such distressed areas involves significantly lower costs than completely mitigating these soils at the time of construction. If the owner cannot tolerate the risk of such settlements, the parking and drive areas should be overexcavated to a depth of 2 feet below proposed pavement subgrade elevation, with the resulting soils replaced as compacted structural fill.

Fill Placement

- Fill soils should be placed in thin (6± inches), near-horizontal lifts, moisture conditioned to 2 to 4 percent above the optimum moisture content, and compacted.
- On-site soils may be used for fill provided they are cleaned of any debris to the satisfaction of the geotechnical engineer.
- All grading and fill placement activities should be completed in accordance with the requirements of the CBC and the grading code of the city of Irwindale.
- All fill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Fill soils should be well mixed.
- Compaction tests should be performed periodically by the geotechnical engineer as random verification of compaction and moisture content. These tests are intended to aid the contractor. Since the tests are taken at discrete locations and depths, they may not be indicative of the entire fill and therefore should not relieve the contractor of his responsibility to meet the job specifications.

Selective Grading and Oversized Material Placement

The native alluvial soils possess significant cobble and/or boulder content. It is expected that large scrapers (Caterpillar 657 or equivalent) will be adequate to move the cobble containing soils as well as some of the soils containing smaller boulders. However, some larger boulders (2± feet in size) were also encountered at the trench locations. It will likely be necessary to move such larger boulders individually, and place them as oversized materials in accordance with the Grading Guide Specifications, in Appendix D of this report.

Since the proposed grading will require excavation of cobble and boulder containing soils, it may be desirable to selectively grade the proposed building pad area. The presence of particles greater than 3 inches in diameter within the upper 1 to 3 feet of the building pad subgrade will impact the utility and foundation excavations. Depending on the depths of fills required within the proposed parking areas, it may be feasible to sort the on-site soils, placing the materials greater than 3 inches in diameter within the lower depths of the fills, and limiting the upper 1 to 3 feet of soils to materials less than 3 inches in size. Oversized materials could also be placed within the lower depths of the recommended overexcavations. In order to achieve this grading, it would likely be necessary to use rock buckets and/or rock sieves to separate the oversized materials from the remaining soil. Although such selective grading will facilitate further construction activities, it is not considered mandatory and a suitable subgrade could be achieved without such extensive sorting. However, in any case, it is recommended that all materials greater than 6 inches in size be excluded from the upper 1 foot of the surface of any compacted fills.

The placement of any oversized materials should be performed in accordance with the Grading Guide Specifications included in Appendix D of this report. If disposal of oversized materials is required, rock blankets or windrows should be used and such areas should be observed during construction and placement by a representative of the geotechnical engineer.

Imported Structural Fill

All imported structural fill should consist of very low expansive (EI < 20), well graded soils possessing at least 10 percent fines (that portion of the sample passing the No. 200 sieve).

Additional specifications for structural fill are presented in the Grading Guide Specifications, included as Appendix D.

Utility Trench Backfill

In general, all utility trench backfill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density. It is recommended that materials in excess of 3 inches in size not be used for utility trench backfill. Compacted trench backfill should conform to the requirements of the local grading code, and more restrictive requirements may be indicated by the city of Irwindale. All utility trench backfills should be witnessed by the geotechnical engineer. The trench backfill soils should be compaction tested where possible; probed and visually evaluated elsewhere.

Utility trenches which parallel a footing, and extending below a 1h:1v plane projected from the outside edge of the footing should be backfilled with structural fill soils, compacted to at least 90 percent of the ASTM D-1557 standard. Pea gravel backfill should not be used for these trenches.

6.4 Construction Considerations

Excavation Considerations

The near-surface soils generally consist of sands, silty sands and gravelly sands. Some of these materials will likely be subject to minor caving within shallow excavations. Where caving does occur, flattened excavation slopes may be sufficient to provide excavation stability. On a preliminary basis, the inclination of temporary slopes should not exceed 2h:1v. Deeper excavations may require some form of external stabilization such as shoring or bracing. Maintaining adequate moisture content within the near-surface soils will improve excavation stability. All excavation activities on this site should be conducted in accordance with Cal-OSHA regulations.

As discussed in a previous section of this report, the northern wall of the northern-most building appears to be in a zero-lot-condition with respect to the northern property line and the building/s on the northern adjacent property. Excavation operations within this area should be performed in order to prevent the undermining of the influence zones of the neighboring building foundations as it is stated in section 1803.5.7 Excavation near foundations of the 2016 CBC. Special demolition techniques may be required in order to protect the existing structures. **It is recommended that we be provided with copies of the preliminary demolition plans for review**.

Groundwater

The static groundwater table is considered to have existed at a depth in excess of 11½± feet at the time of the subsurface exploration. Therefore, groundwater is not expected to impact the grading or foundation construction activities.

6.5 Foundation Design and Construction

Based on the preceding grading recommendations, it is assumed that the new building pads will be underlain by new structural fill soils used to replace existing undocumented fill soils and near surface alluvial soils. These structural fill soils are expected to extend to depths of at least 2 feet below proposed foundation bearing grades, underlain by 1± foot of additional soil that has been densified and moisture conditioned in place. Based on this subsurface profile, the proposed structures may be supported on conventional shallow foundations.

Foundation Design Parameters

New square and rectangular footings may be designed as follows:

- Maximum, net allowable soil bearing pressure: 3,000 lbs/ft^2.
- Minimum wall/column footing width: 14 inches/24 inches.
- Minimum longitudinal steel reinforcement within strip footings: Two (2) No. 5 rebars (1 top and 1 bottom).
- Minimum foundation embedment: 12 inches into suitable structural fill soils, and at least 18 inches below adjacent exterior grade. Interior column footings may be placed immediately beneath the floor slab.
- It is recommended that the perimeter building foundations be continuous across all exterior doorways. Any flatwork adjacent to the exterior doors should be doweled into the perimeter foundations in a manner determined by the structural engineer.

The allowable bearing pressures presented above may be increased by 1/3 when considering short duration wind or seismic loads. The minimum steel reinforcement recommended above is based on geotechnical considerations; additional reinforcement may be necessary for structural considerations. The actual design of the foundations should be determined by the structural engineer.

Foundation Construction

The foundation subgrade soils should be evaluated at the time of overexcavation, as discussed in Section 6.3 of this report. It is further recommended that the foundation subgrade soils be evaluated by the geotechnical engineer immediately prior to steel or concrete placement. Soils suitable for direct foundation support should consist of newly placed structural fill, compacted to at least 90 percent of the ASTM D-1557 maximum dry density. Any unsuitable materials should be removed to a depth of suitable bearing compacted structural fill, with the resulting excavations backfilled with compacted fill soils. As an alternative, lean concrete slurry (500 to 1,500 psi) may be used to backfill such isolated overexcavations.

The foundation subgrade soils should also be properly moisture conditioned to at least 2 to 4 percent of the Modified Proctor optimum, to a depth of at least 12 inches below bearing grade. **Since it is typically not feasible to increase the moisture content of the floor slab and**

foundation subgrade soils once rough grading has been completed, care should be taken to maintain the moisture content of the building pad subgrade soils throughout the construction process.

Estimated Foundation Settlements

Post-construction total and differential settlements of shallow foundations designed and constructed in accordance with the previously presented recommendations are estimated to be less than 1.0 and 0.5 inches, respectively. Differential movements are expected to occur over a 30-foot span, thereby resulting in an angular distortion of less than 0.002 inches per inch.

Lateral Load Resistance

Lateral load resistance will be developed by a combination of friction acting at the base of foundations and slabs and the passive earth pressure developed by footings below grade. The following friction and passive pressure may be used to resist lateral forces:

- Passive Earth Pressure: 300 lbs/ft^3
- Friction Coefficient: 0.30

These are allowable values, and include a factor of safety. When combining friction and passive resistance, the passive pressure component should be reduced by one-third. These values assume that footings will be poured directly against compacted structural fill soils. The maximum allowable passive pressure is 2,500 lbs/ft^2.

6.6 Floor Slab Design and Construction

Subgrades which will support the new floor slabs should be prepared in accordance with the recommendations contained in the ***Site Grading Recommendations*** section of this report. Based on the anticipated grading which will occur at this site, the floors of the proposed structures may be constructed as conventional slabs-on-grade supported on newly placed structural fill (or densified existing soils), extending to a depth of at least 3 feet below finished pad grades. Based on geotechnical considerations, the floor-slab may be designed as follows:

- Minimum slab thickness: 5 inches.

- Modulus of Subgrade Reaction: k = 150 psi/in.

- Minimum slab reinforcement: Reinforcement is not considered necessary from a geotechnical standpoint. The actual floor slab reinforcement should be determined by the structural engineer, based on the imposed slab loading.

- Slab underlayment: If moisture sensitive floor coverings will be used then minimum slab underlayment should consist of a moisture vapor barrier constructed below the entire area of the proposed slab where such moisture sensitive floor coverings are anticipated. The moisture vapor barrier should meet or exceed the Class A rating as defined by ASTM E 1745-97 and have a permeance rating less than 0.01 perms as described in ASTM E 96-95 and ASTM E 154-88. A polyolefin material such as Stego®

Wrap Vapor Barrier or equivalent will meet these specifications. The moisture vapor barrier should be properly constructed in accordance with all applicable manufacturer specifications. Given that a rock free subgrade is anticipated and that a capillary break is not required, sand below the barrier is not required. The need for sand and/or the amount of sand above the moisture vapor barrier should be specified by the structural engineer or concrete contractor. The selection of sand above the barrier is not a geotechnical engineering issue and hence outside our purview. Where moisture sensitive floor coverings are not anticipated, the vapor barrier may be eliminated.

- Moisture condition the floor slab subgrade soils to 2 to 4 percent above the Modified Proctor optimum moisture content, to a depth of 12 inches. The moisture content of the floor slab subgrade soils should be verified by the geotechnical engineer within 24 hours prior to concrete placement.

- Proper concrete curing techniques should be utilized to reduce the potential for slab curling or the formation of excessive shrinkage cracks.

The actual design of the floor slab should be completed by the structural engineer to verify adequate thickness and reinforcement.

6.7 Retaining Wall Design and Construction

Although not indicated on the site plan, some small (less than 6 feet in height) retaining walls may be required to facilitate the new site grades. The parameters recommended for use in the design of these walls are presented below.

Retaining Wall Design Parameters

Based on the soil conditions encountered at the trench locations, the following parameters may be used in the design of new retaining walls for this site. The following parameters assume that only the on-site soils will be utilized for retaining wall backfill. The near-surface soils generally consist of silty sands, sands and gravelly sands. Based on their composition, the on-site soils have been assigned a friction angle of 32 degrees.

If desired, SCG could provide design parameters for an alternative select backfill material behind the retaining walls. The use of select backfill material could result in lower lateral earth pressures. In order to use the design parameters for the imported select fill, this material must be placed within the entire active failure wedge. This wedge is defined as extending from the heel of the retaining wall upwards at an angle of approximately 60° from horizontal. If select backfill material behind the retaining wall is desired, SCG should be contacted for supplementary recommendations.

RETAINING WALL DESIGN PARAMETERS

Design Parameter		Soil Type
		On-site Silty Sands
Internal Friction Angle (ϕ)		32°
Unit Weight		130 lbs/ft^3
Equivalent Fluid Pressure:	Active Condition (level backfill)	40 lbs/ft^3
	Active Condition (2h:1v backfill)	61 lbs/ft^3
	At-Rest Condition (level backfill)	61 lbs/ft^3

The walls should be designed using a soil-footing coefficient of friction of 0.30 and an equivalent passive pressure of 300 lbs/ft^3. The structural engineer should incorporate appropriate factors of safety in the design of the retaining walls.

The active earth pressure may be used for the design of retaining walls that do not directly support structures or support soils that in turn support structures and which will be allowed to deflect. The at-rest earth pressure should be used for walls that will not be allowed to deflect such as those which will support foundation bearing soils, or which will support foundation loads directly.

Where the soils on the toe side of the retaining wall are not covered by a "hard" surface such as a structure or pavement, the upper 1 foot of soil should be neglected when calculating passive resistance due to the potential for the material to become disturbed or degraded during the life of the structure.

Seismic Lateral Earth Pressures

In accordance with the CBC, any retaining walls more than 6 feet in height must be designed for seismic lateral earth pressures. If walls 6 feet or more are required for this site, the geotechnical engineer should be contacted for supplementary seismic lateral earth pressure recommendations.

Retaining Wall Foundation Design

The retaining wall foundations should be supported within newly placed compacted structural fill, extending to a depth of at least 2 feet below proposed foundation bearing grade. Foundations to support new retaining walls should be designed in accordance with the general Foundation Design Parameters presented in a previous section of this report.

Backfill Material

On-site soils may be used to backfill the retaining walls. **However, all backfill material placed within 3 feet of the back wall face should have a particle size no greater than 3 inches.** Some sorting and/or crushing operations may be required. The retaining wall backfill materials should be well graded.

It is recommended that a properly installed prefabricated drainage composite such as the MiraDRAIN 6000XL (or approved equivalent), which is specifically designed for use behind retaining walls be used. If the drainage composite material is not covered by an impermeable surface, such as a structure or pavement, a 12-inch thick layer of a low permeability soil should be placed over the backfill to reduce surface water migration to the underlying soils. The drainage composite should be separated from the backfill soils by a suitable geotextile, approved by the geotechnical engineer.

All retaining wall backfill should be placed and compacted under engineering controlled conditions in the necessary layer thicknesses to ensure an in-place density between 90 and 93 percent of the maximum dry density as determined by the Modified Proctor test (ASTM D1557). Care should be taken to avoid over-compaction of the soils behind the retaining walls, and the use of heavy compaction equipment should be avoided.

Subsurface Drainage

As previously indicated, the retaining wall design parameters are based upon drained backfill conditions. Consequently, some form of permanent drainage system will be necessary in conjunction with the appropriate backfill material. Subsurface drainage may consist of either:

- A weep hole drainage system typically consisting of a series of 4-inch diameter holes in the wall situated slightly above the ground surface elevation on the exposed side of the wall and at an approximate 8-foot on-center spacing. The weep holes should include a 2 cubic foot pocket of open graded gravel, surrounded by an approved geotextile fabric, at each weep hole location.

- A 4-inch diameter perforated pipe surrounded by 2 cubic feet of gravel per linear foot of drain placed behind the wall, above the retaining wall footing. The gravel layer should be wrapped in a suitable geotextile fabric to reduce the potential for migration of fines. The footing drain should be extended to daylight or tied into a storm drainage system.

6.8 Pavement Design Parameters

Site preparation in the pavement area should be completed as previously recommended in the ***Site Grading Recommendations*** section of this report. The subsequent pavement recommendations assume proper drainage and construction monitoring, and are based on either PCA or CALTRANS design parameters for a twenty (20) year design period. However, these designs also assume a routine pavement maintenance program to obtain the anticipated 20-year pavement service life.

Pavement Subgrades

It is anticipated that the new pavements will be primarily supported on a layer of compacted structural fill, consisting of scarified, thoroughly moisture conditioned and recompacted existing soils. The near-surface soils generally consist of sands, silty sands and gravelly sands. These soils are generally considered to possess good to excellent pavement support characteristics, with R-

values in the range of 60 to 70. The subsequent pavement design is therefore based upon an assumed R-value of 60. Any fill material imported to the site should have support characteristics equal to or greater than that of the on-site soils and be placed and compacted under engineering controlled conditions. It is recommended that R-value testing be performed after completion of rough grading. Depending upon the results of the R-value testing, it may be feasible to use thinner pavement sections in some areas of the site.

Asphaltic Concrete

Presented below are the recommended thicknesses for new flexible pavement structures consisting of asphaltic concrete over a granular base. The pavement designs are based on the traffic indices (TI's) indicated. The client and/or civil engineer should verify that these TI's are representative of the anticipated traffic volumes. If the client and/or civil engineer determine that the expected traffic volume will exceed the applicable traffic index, we should be contacted for supplementary recommendations. The design traffic indices equate to the following approximate daily traffic volumes over a 20-year design life, assuming six operational traffic days per week.

Traffic Index	No. of Heavy Trucks per Day
4.0	0
5.0	1
6.0	3
7.0	11
8.0	35
9.0	93

For the purpose of the traffic volumes indicated above, a truck is defined as a 5-axle tractor trailer unit with one 8-kip axle and two 32-kip tandem axles. All of the traffic indices allow for 1,000 automobiles per day.

ASPHALT PAVEMENTS (R=60)					
Materials	**Thickness (inches)**				
	Auto Parking and Auto Drive Lanes (TI = 4.0 to 5.0)	Truck Traffic			
		TI = 6.0	TI = 7.0	TI = 8.0	TI = 9.0
Asphalt Concrete	3	3½	4	5	5½
Aggregate Base	3	3	3	3	4
Compacted Subgrade	12	12	12	12	12

The aggregate base course should be compacted to at least 95 percent of the ASTM D-1557 maximum dry density. The asphaltic concrete should be compacted to at least 95 percent of the Marshall maximum density, as determined by ASTM D-2726. The aggregate base course may consist of crushed aggregate base (CAB) or crushed miscellaneous base (CMB), which is a recycled gravel, asphalt and concrete material. The gradation, R-Value, Sand Equivalent, and Percentage Wear of the CAB or CMB should comply with appropriate specifications contained in the current edition of the "Greenbook" Standard Specifications for Public Works Construction.

Portland Cement Concrete

The preparation of the subgrade soils within concrete pavement areas should be performed as previously described for proposed asphalt pavement areas. The minimum recommended thicknesses for the Portland Cement Concrete pavement sections are as follows:

PORTLAND CEMENT CONCRETE PAVEMENTS (R=60)				
Materials	**Thickness (inches)**			
	Autos and Light Truck Traffic (TI = 6.0)	Truck Traffic		
		TI = 7.0	TI = 8.0	TI = 9.0
PCC	5	6	7	8
Compacted Subgrade (95% minimum compaction)	12	12	12	12

The concrete should have a 28-day compressive strength of at least 3,000 psi. Any reinforcement within the PCC pavements should be determined by the project structural engineer. The maximum joint spacing within all of the PCC pavements is recommended to be equal to or less than 30 times the pavement thickness.

7.0 GENERAL COMMENTS

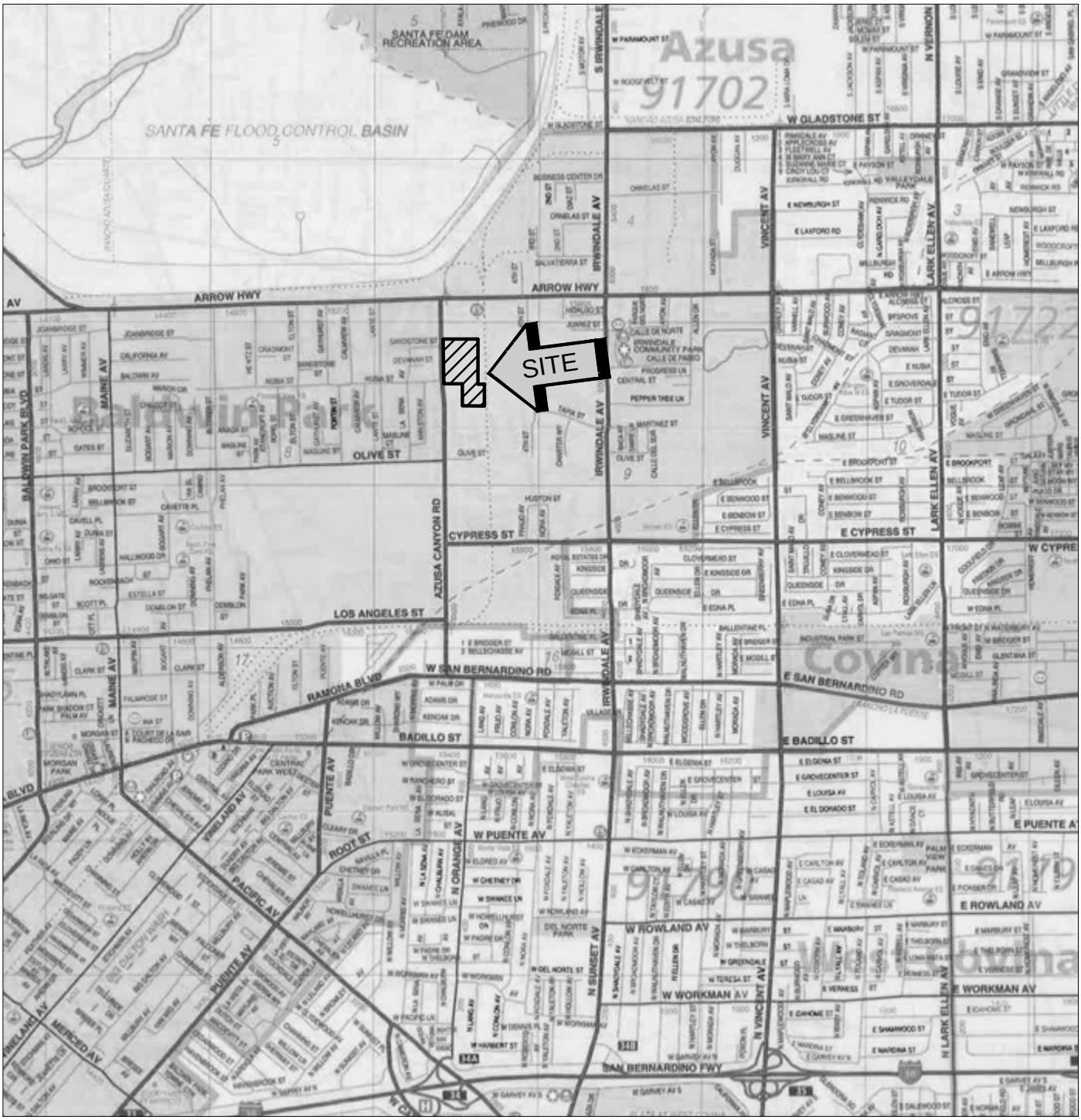
This report has been prepared as an instrument of service for use by the client, in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other design consultants to disclose information relative to the project. However, this report is not intended to be utilized as a specification in and of itself, without appropriate interpretation by the project architect, civil engineer, and/or structural engineer. The reproduction and distribution of this report must be authorized by the client and Southern California Geotechnical, Inc. Furthermore, any reliance on this report by an unauthorized third party is at such party's sole risk, and we accept no responsibility for damage or loss which may occur. The client(s)' reliance upon this report is subject to the Engineering Services Agreement, incorporated into our proposal for this project.

The analysis of this site was based on a subsurface profile interpolated from limited discrete soil samples. While the materials encountered in the project area are considered to be representative of the total area, some variations should be expected between trench locations and sample depths. If the conditions encountered during construction vary significantly from those detailed herein, we should be contacted immediately to determine if the conditions alter the recommendations contained herein.

This report has been based on assumed or provided characteristics of the proposed development. It is recommended that the owner, client, architect, structural engineer, and civil engineer carefully review these assumptions to ensure that they are consistent with the characteristics of the proposed development. If discrepancies exist, they should be brought to our attention to verify that they do not affect the conclusions and recommendations contained herein. We also recommend that the project plans and specifications be submitted to our office for review to verify that our recommendations have been correctly interpreted.

The analysis, conclusions, and recommendations contained within this report have been promulgated in accordance with generally accepted professional geotechnical engineering practice. No other warranty is implied or expressed.

APPENDIX A



SOURCE: LOS ANGELES COUNTY
THOMAS GUIDE, 2013

SITE LOCATION MAP

TWO PROPOSED WAREHOUSE BUILDINGS

IRWINDALE, CALIFORNIA

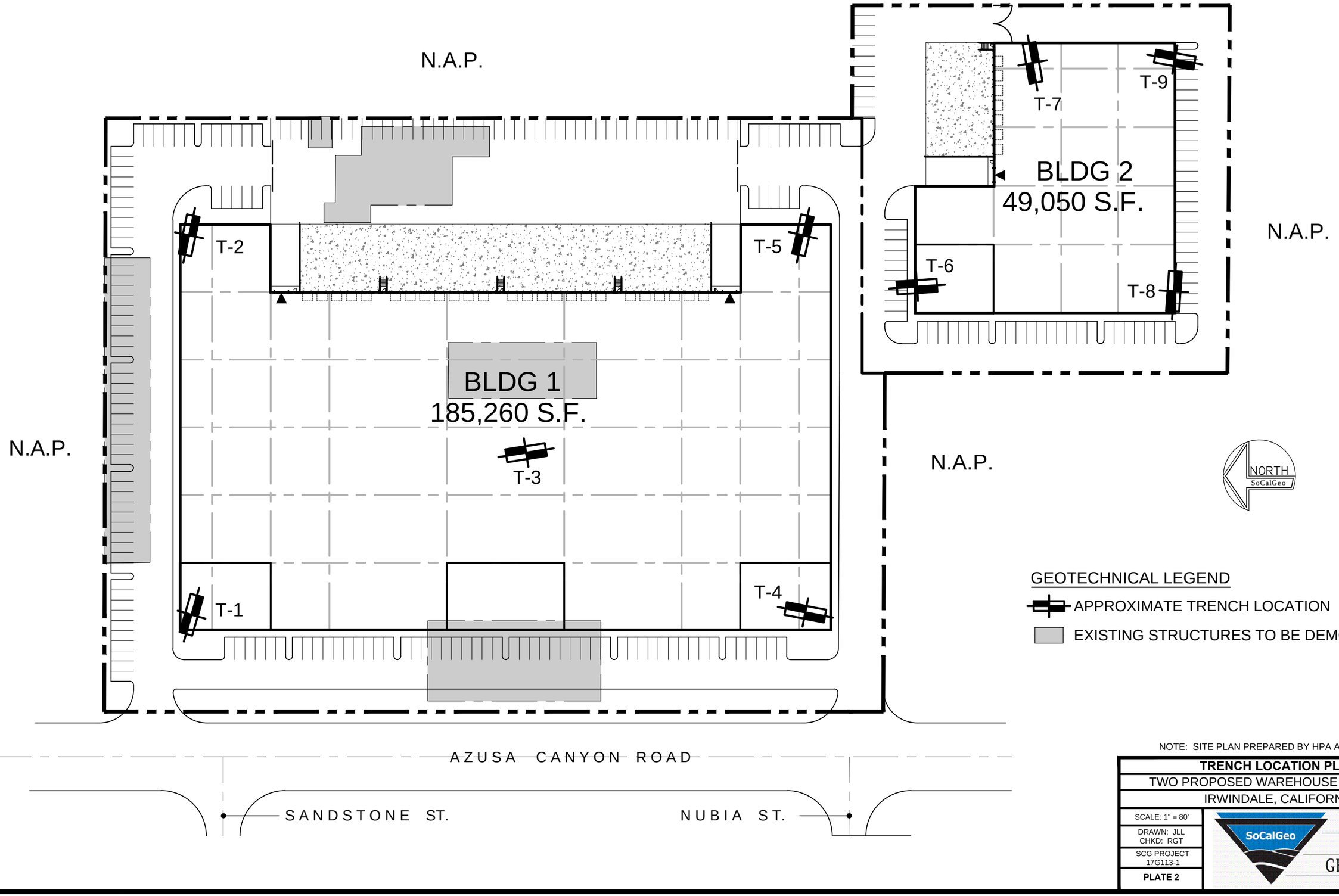
SCALE: 1" = 2400'

DRAWN: SM
CHKD: RGT

SCG PROJECT
17G113-1

PLATE 1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



GEOTECHNICAL LEGEND

APPROXIMATE TRENCH LOCATION

EXISTING STRUCTURES TO BE DEMOLISHED

NOTE: SITE PLAN PREPARED BY HPA ARCHITECTURE.

TRENCH LOCATION PLAN

TWO PROPOSED WAREHOUSE BUILDINGS

IRWINDALE, CALIFORNIA

SCALE: 1" = 80'

DRAWN: JLL
CHKD: RGT

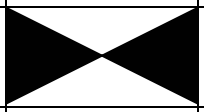
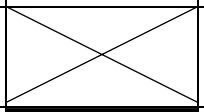
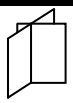
SCG PROJECT
17G113-1

PLATE 2

SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX B

BORING LOG LEGEND

SAMPLE TYPE	GRAPHICAL SYMBOL	SAMPLE DESCRIPTION
AUGER		SAMPLE COLLECTED FROM AUGER CUTTINGS, NO FIELD MEASUREMENT OF SOIL STRENGTH. (DISTURBED)
CORE		ROCK CORE SAMPLE: TYPICALLY TAKEN WITH A DIAMOND-TIPPED CORE BARREL. TYPICALLY USED ONLY IN HIGHLY CONSOLIDATED BEDROCK.
GRAB		SOIL SAMPLE TAKEN WITH NO SPECIALIZED EQUIPMENT, SUCH AS FROM A STOCKPILE OR THE GROUND SURFACE. (DISTURBED)
CS		CALIFORNIA SAMPLER: 2-1/2 INCH I.D. SPLIT BARREL SAMPLER, LINED WITH 1-INCH HIGH BRASS RINGS. DRIVEN WITH SPT HAMMER. (RELATIVELY UNDISTURBED)
NSR		NO RECOVERY: THE SAMPLING ATTEMPT DID NOT RESULT IN RECOVERY OF ANY SIGNIFICANT SOIL OR ROCK MATERIAL.
SPT		STANDARD PENETRATION TEST: SAMPLER IS A 1.4 INCH INSIDE DIAMETER SPLIT BARREL, DRIVEN 18 INCHES WITH THE SPT HAMMER. (DISTURBED)
SH		SHELBY TUBE: TAKEN WITH A THIN WALL SAMPLE TUBE, PUSHED INTO THE SOIL AND THEN EXTRACTED. (UNDISTURBED)
VANE		VANE SHEAR TEST: SOIL STRENGTH OBTAINED USING A 4 BLADED SHEAR DEVICE. TYPICALLY USED IN SOFT CLAYS-NO SAMPLE RECOVERED.

COLUMN DESCRIPTIONS

DEPTH: Distance in feet below the ground surface.

SAMPLE: Sample Type as depicted above.

BLOW COUNT: Number of blows required to advance the sampler 12 inches using a 140 lb hammer with a 30-inch drop. 50/3" indicates penetration refusal (>50 blows) at 3 inches. WH indicates that the weight of the hammer was sufficient to push the sampler 6 inches or more.

POCKET PEN.: Approximate shear strength of a cohesive soil sample as measured by pocket penetrometer.

GRAPHIC LOG: Graphic Soil Symbol as depicted on the following page.

DRY DENSITY: Dry density of an undisturbed or relatively undisturbed sample in lbs/ft^3.

MOISTURE CONTENT: Moisture content of a soil sample, expressed as a percentage of the dry weight.

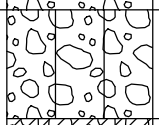
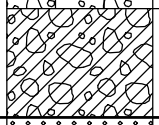
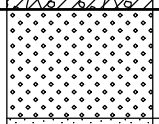
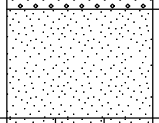
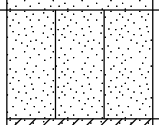
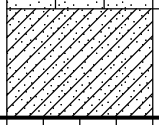
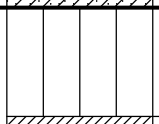
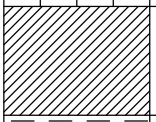
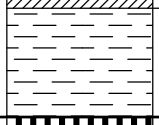
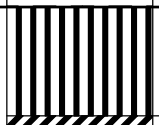
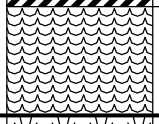
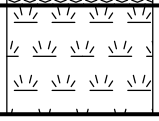
LIQUID LIMIT: The moisture content above which a soil behaves as a liquid.

PLASTIC LIMIT: The moisture content above which a soil behaves as a plastic.

PASSING #200 SIEVE: The percentage of the sample finer than the #200 standard sieve.

UNCONFINED SHEAR: The shear strength of a cohesive soil sample, as measured in the unconfined state.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-1

JOB NO.: 17G113-1

PROJECT: Two Proposed Warehouse Buildings

LOCATION: Irwindale, CA

DATE: 2-9-2017

EQUIPMENT USED: Backhoe

LOGGED BY: Anthony Luna

ORIENTATION: N 74 W

TOP OF TRENCH ELEVATION:

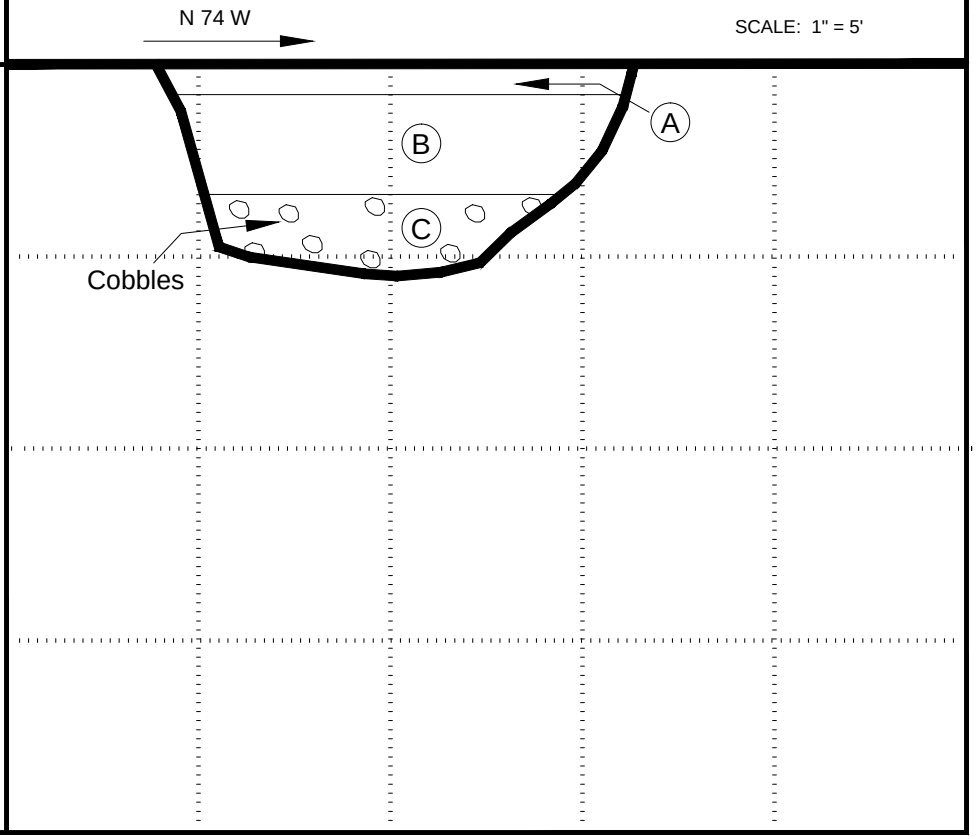
WATER DEPTH: Dry

SEEPAGE DEPTH: Dry

READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
				A: PAVEMENTS: 5 inches Asphaltic concrete, 3 inches Aggregate base
	b		14	B: FILL: Brown Silty fine Sand, medium dense-moist
5	b		3	C: ALLUVIUM: Light Gray Brown fine to coarse Sandy Gravel to Gravelly fine to coarse Sand, extensive Cobbles, dense-damp
				Trench Terminated @ 5.5 feet
10				
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-1

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-2

JOB NO.: 17G113-1

PROJECT: Two Proposed Warehouse Buildings

LOCATION: Irwindale, CA

DATE: 2-9-2017

EQUIPMENT USED: Backhoe

LOGGED BY: Anthony Luna

ORIENTATION: N 78 W

TOP OF TRENCH ELEVATION:

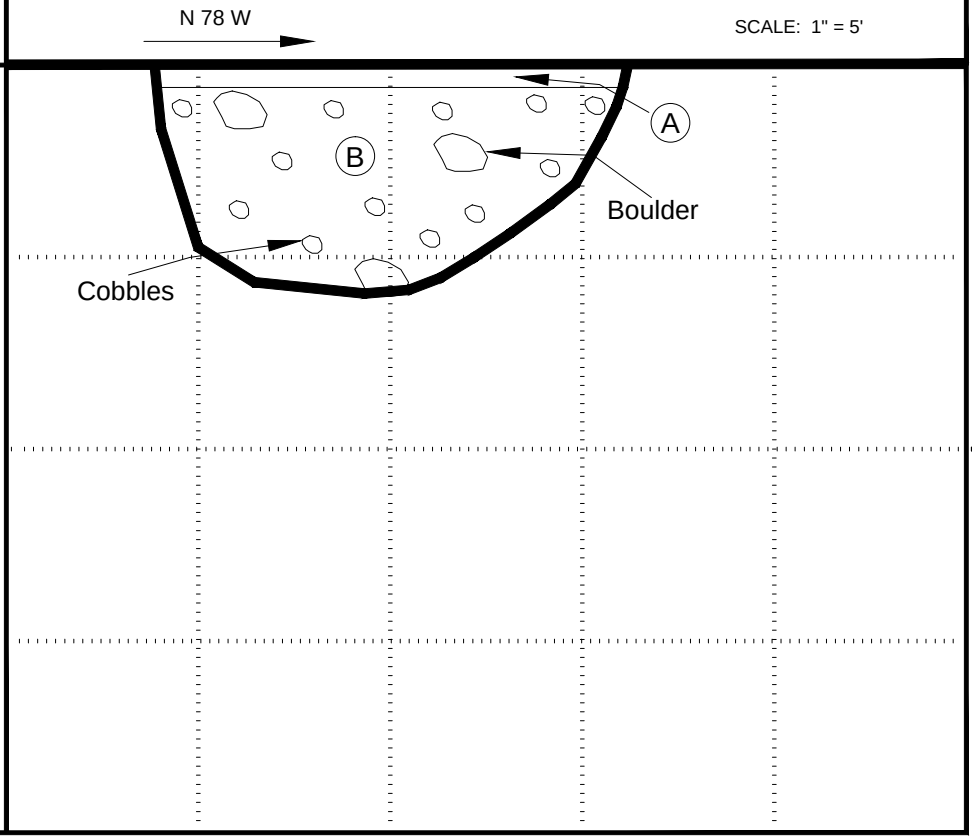
WATER DEPTH: Dry

SEEPAGE DEPTH: Dry

READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
5	b		2	A: PAVEMENTS: 6.5 inches Asphaltic concrete, no discernible Aggregate base B: ALLUVIUM: Light Gray Brown fine to coarse Sandy Gravel to Gravelly fine to coarse Sand, extensive Cobbles, occasional Boulders, dense to very dense-dry to damp Trench Terminated @ 6 feet
10				
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-2

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-3

JOB NO.: 17G113-1

PROJECT: Two Proposed Warehouse Buildings

LOCATION: Irwindale, CA

DATE: 2-9-2017

EQUIPMENT USED: Backhoe

LOGGED BY: Anthony Luna

ORIENTATION: N 9 W

TOP OF TRENCH ELEVATION:

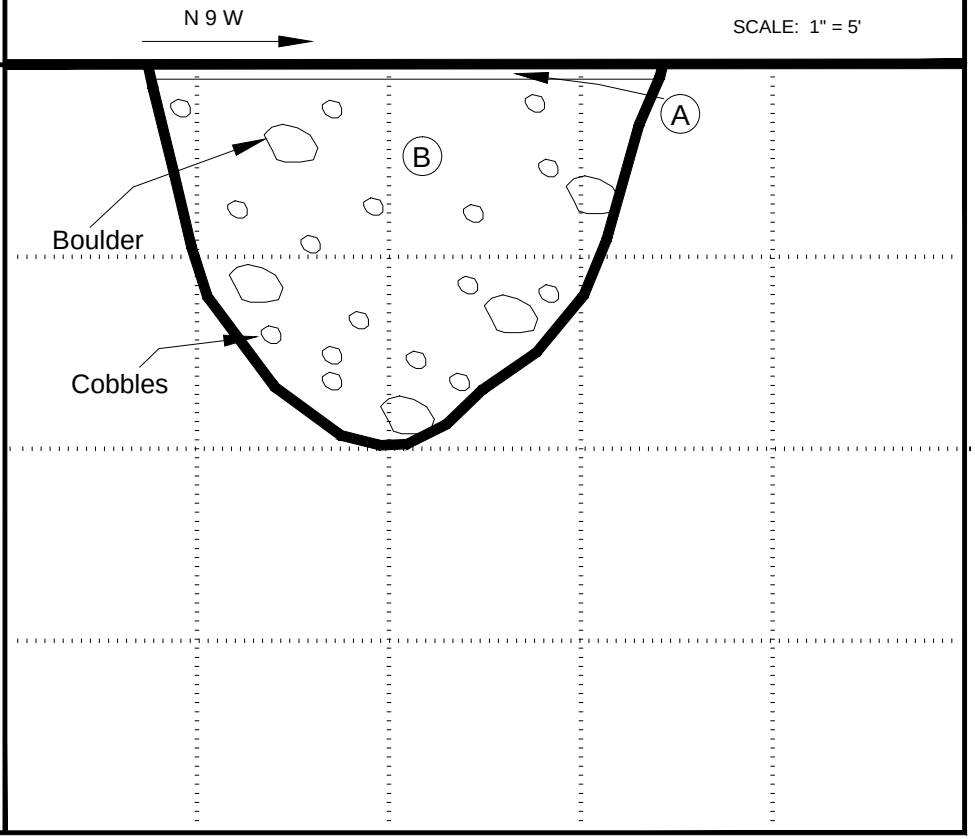
WATER DEPTH: Dry

SEEPAGE DEPTH: Dry

READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
				A: PAVEMENTS: 4 inches Asphaltic concrete, no discernible Aggregate base
				B: ALLUVIUM: Light Gray Brown fine to coarse Sandy Gravel to Gravelly fine to coarse Sand, extensive Cobbles, occasional Boulders, very dense-damp
5				
	b		4	
10				Trench Terminated @ 10 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-3

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-4

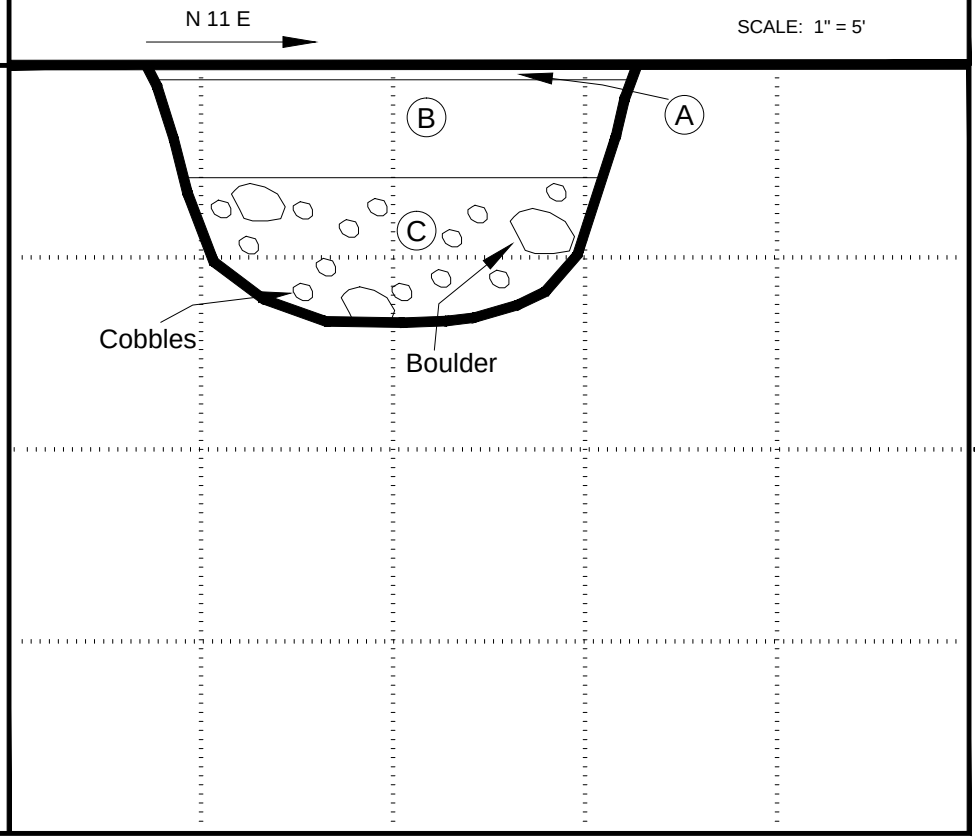
JOB NO.: 17G113-1
PROJECT: Two Proposed Warehouse Buildings
LOCATION: Irwindale, CA
DATE: 2-9-2017

EQUIPMENT USED: Backhoe
LOGGED BY: Anthony Luna
ORIENTATION: N 11 E
TOP OF TRENCH ELEVATION:

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		12	A: PAVEMENTS: 4 inches Asphaltic concrete, no discernible Aggregate base B: FILL: Brown Silty fine Sand, medium dense-moist
5	b		2	C: ALLUVIUM: Light Gray Brown Gravelly fine to coarse Sand, extensive Cobbles, occasional Boulders, very dense-dry to damp
				Trench Terminated @ 7 feet
10				
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-4

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-5

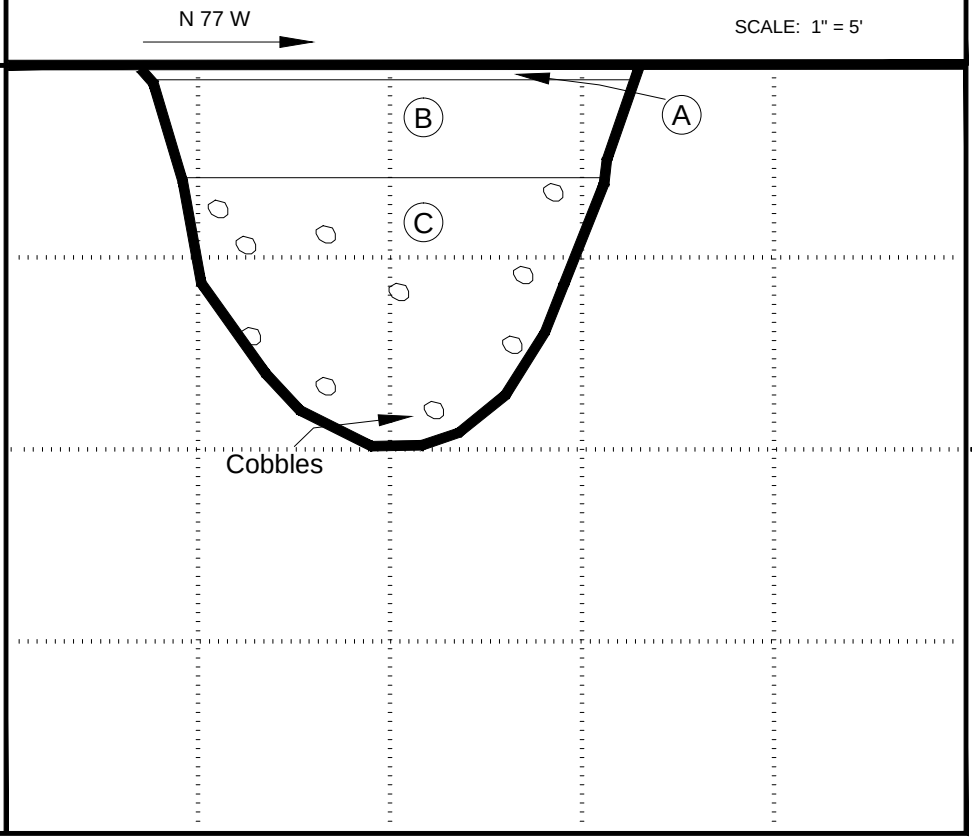
JOB NO.: 17G113-1
PROJECT: Two Proposed Warehouse Buildings
LOCATION: Irwindale, CA
DATE: 2-9-2017

EQUIPMENT USED: Backhoe
LOGGED BY: Anthony Luna
ORIENTATION: N 77 W
TOP OF TRENCH ELEVATION:

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		22	A: PAVEMENTS: 4 inches Asphaltic concrete, no discernible Aggregate base B: FILL: Dark Brown Silty fine Sand to fine Sandy Silt, medium dense-moist to very moist
5				C: ALLUVIUM: Light Gray Brown Gravelly fine to coarse Sand, occasional Cobbles, dense-damp
	b		3	
10				Trench Terminated @ 10 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-5

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-6

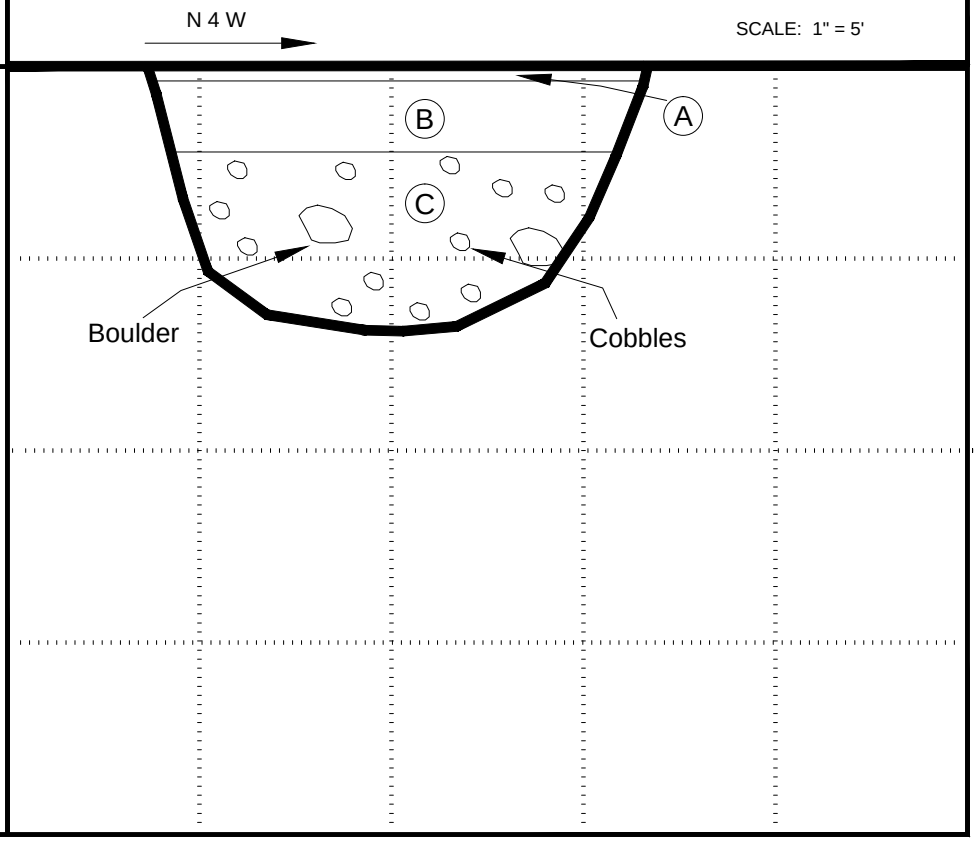
JOB NO.: 17G113-1
PROJECT: Two Proposed Warehouse Buildings
LOCATION: Irwindale, CA
DATE: 2-9-2017

EQUIPMENT USED: Backhoe
LOGGED BY: Anthony Luna
ORIENTATION: N 4 W
TOP OF TRENCH ELEVATION:

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		7	A: PAVEMENTS: 2 inches Asphaltic concrete, 3 inches Aggregate base B: FILL: Dark Brown Silty fine Sand, trace fine to coarse Gravel, trace Brick, Metal, and Asphaltic concrete fragments, medium dense-damp
	b		2	C: ALLUVIUM: Light Gray Brown Gravelly fine to coarse Sand, extensive Cobbles, occasional Boulders, very dense-dry to damp
5	b		2	
				Trench Terminated @ 7 feet
10				
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-6

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-7

JOB NO.: 17G113-1

PROJECT: Two Proposed Warehouse Buildings

LOCATION: Irwindale, CA

DATE: 2-9-2017

EQUIPMENT USED: Backhoe

LOGGED BY: Anthony Luna

ORIENTATION: N 80 E

TOP OF TRENCH ELEVATION:

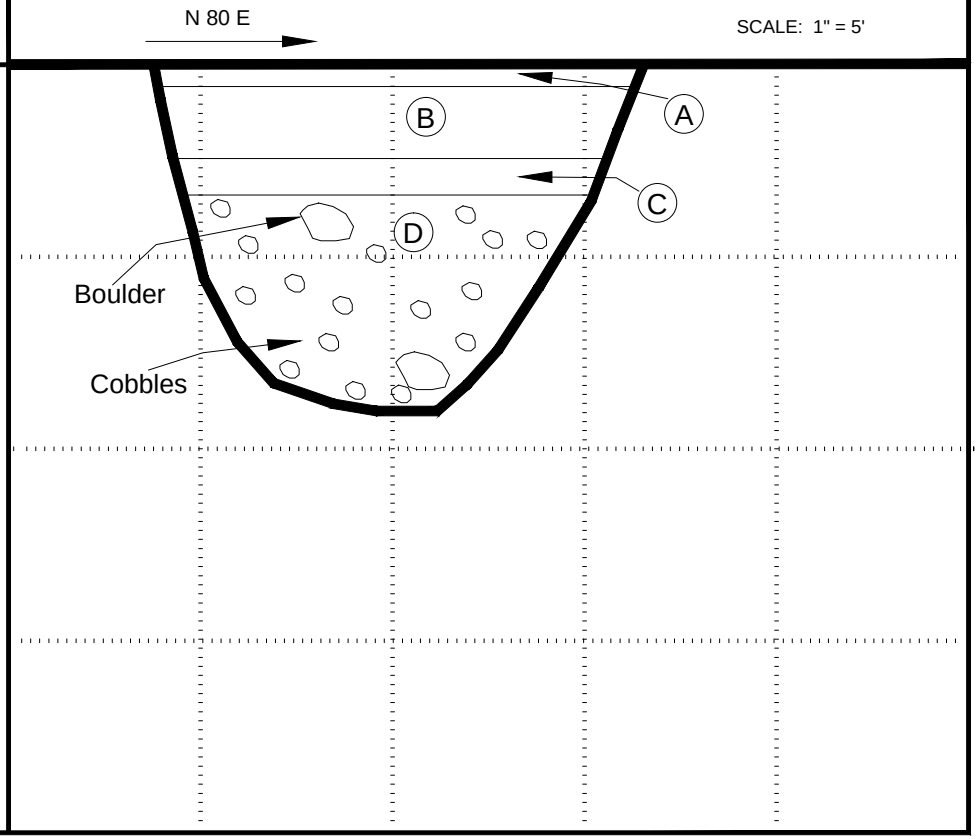
WATER DEPTH: Dry

SEEPAGE DEPTH: Dry

READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		7	A: PAVEMENTS: 2 inches Asphaltic concrete, 4 inches Aggregate base B: FILL: Dark Brown Silty fine to medium Sand, trace coarse sand, little fine Gravel, Asphaltic concrete fragments, medium dense-damp
		105	4	
	b		4	C: ALLUVIUM: Light Gray fine to medium Sand, trace coarse Sand, trace fine to coarse Gravel, medium dense-damp
	b		3	
5				D: ALLUVIUM: Gray Brown Gravelly fine to coarse Sand, extensive Cobbles, occasional Boulders, dense to very dense-damp
	b		4	
	b		4	
10				Trench Terminated @ 9 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-7

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-8

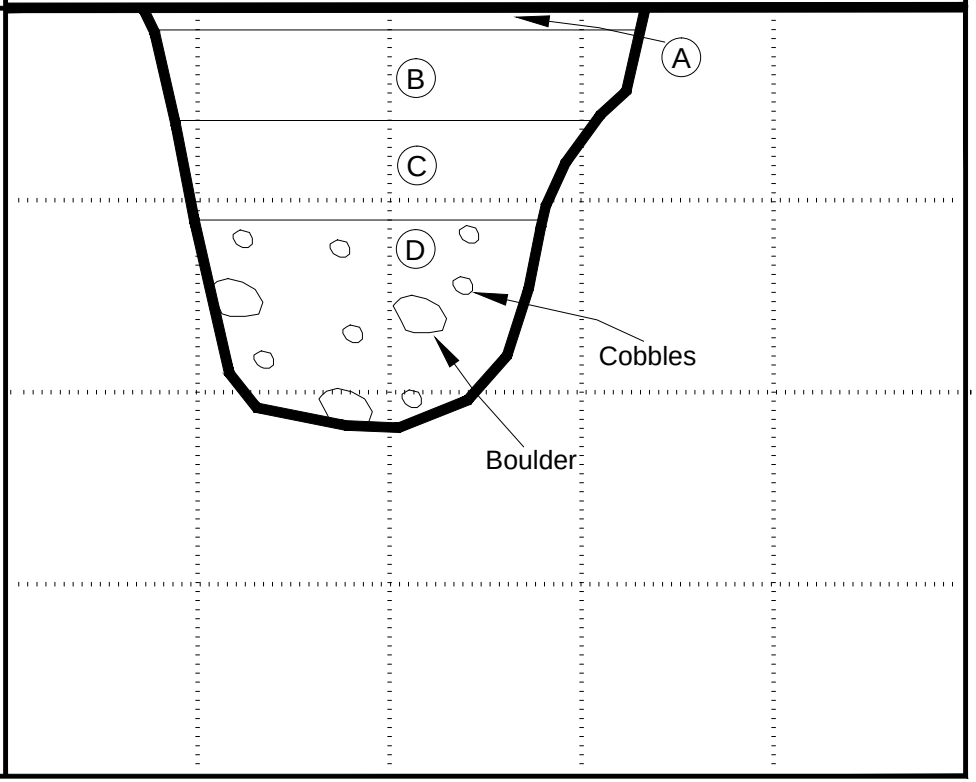
JOB NO.: 17G113-1
PROJECT: Two Proposed Warehouse Buildings
LOCATION: Irwindale, CA
DATE: 2-9-2017

EQUIPMENT USED: Backhoe
LOGGED BY: Anthony Luna
ORIENTATION: N 86 W
TOP OF TRENCH ELEVATION:

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		10	A: PAVEMENTS: 3 inches Asphaltic concrete, 3 inches Aggregate base
				B: FILL: Gray Silty fine to medium Sand, metallic debris, medium dense-moist
	b		7	
5				C: FILL: Brown to Black Silty fine to medium Sand, trace coarse Sand, trace fine Gravel, mottled, medium dense-damp
	b		4	D: ALLUVIUM: Light Gray Brown fine to coarse Sandy Gravel to Gravelly fine to coarse Sand, occasional Cobbles, occasional Boulders, dense to very dense-dry to damp
10				Trench Terminated @ 11.5 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-8

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-9

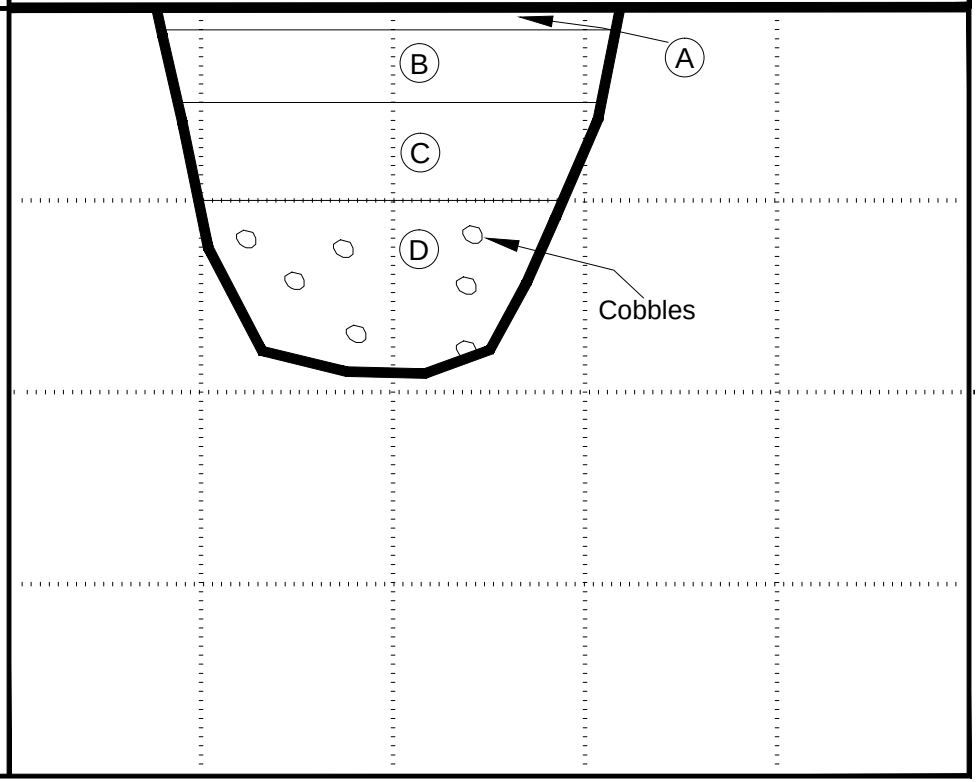
JOB NO.: 17G113-1
PROJECT: Two Proposed Warehouse Buildings
LOCATION: Irwindale, CA
DATE: 2-9-2017

EQUIPMENT USED: Backhoe
LOGGED BY: Anthony Luna
ORIENTATION: N 10 E
TOP OF TRENCH ELEVATION:

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
		104	11	A: PAVEMENTS: 3 inches Asphaltic concrete, 3 inches Aggregate base B: FILL: Gray Silty fine Sand, trace medium to coarse Sand, trace fine Gravel, medium dense-moist
5	b		6	C: FILL: Brown Silty fine to medium Sand, trace coarse Sand, trace fine Gravel, medium dense-damp
	b		2	D: ALLUVIUM: Light Gray Brown Gravelly fine to coarse Sand, occasional Cobbles, dense-dry to damp
10				Trench Terminated @ 9.5 feet
15				

GRAPHIC REPRESENTATION



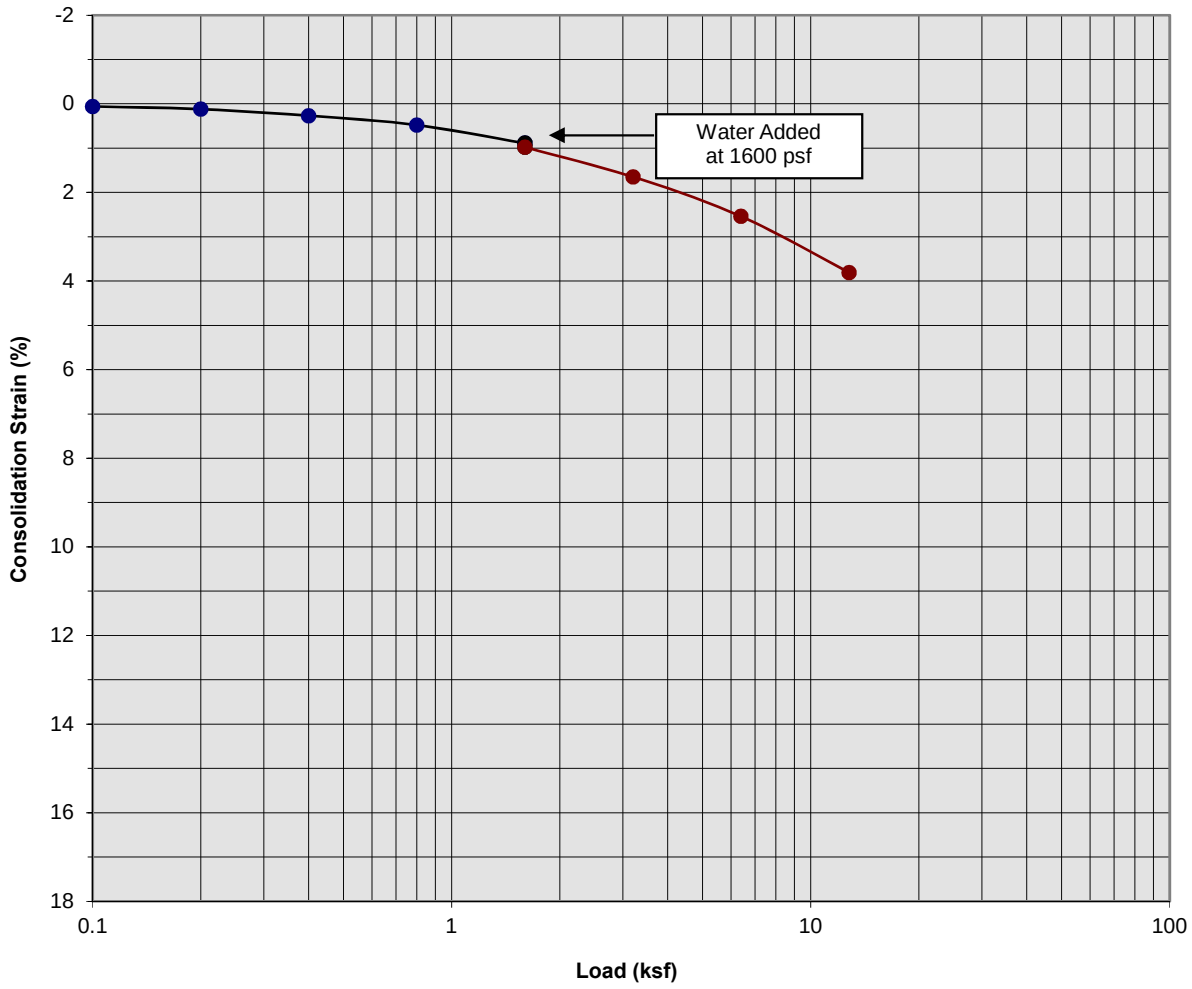
KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-9

APPENDIX C

Consolidation/Collapse Test Results



Classification: FILL: Dark Brown Silty fine to medium Sand, trace coarse Sand

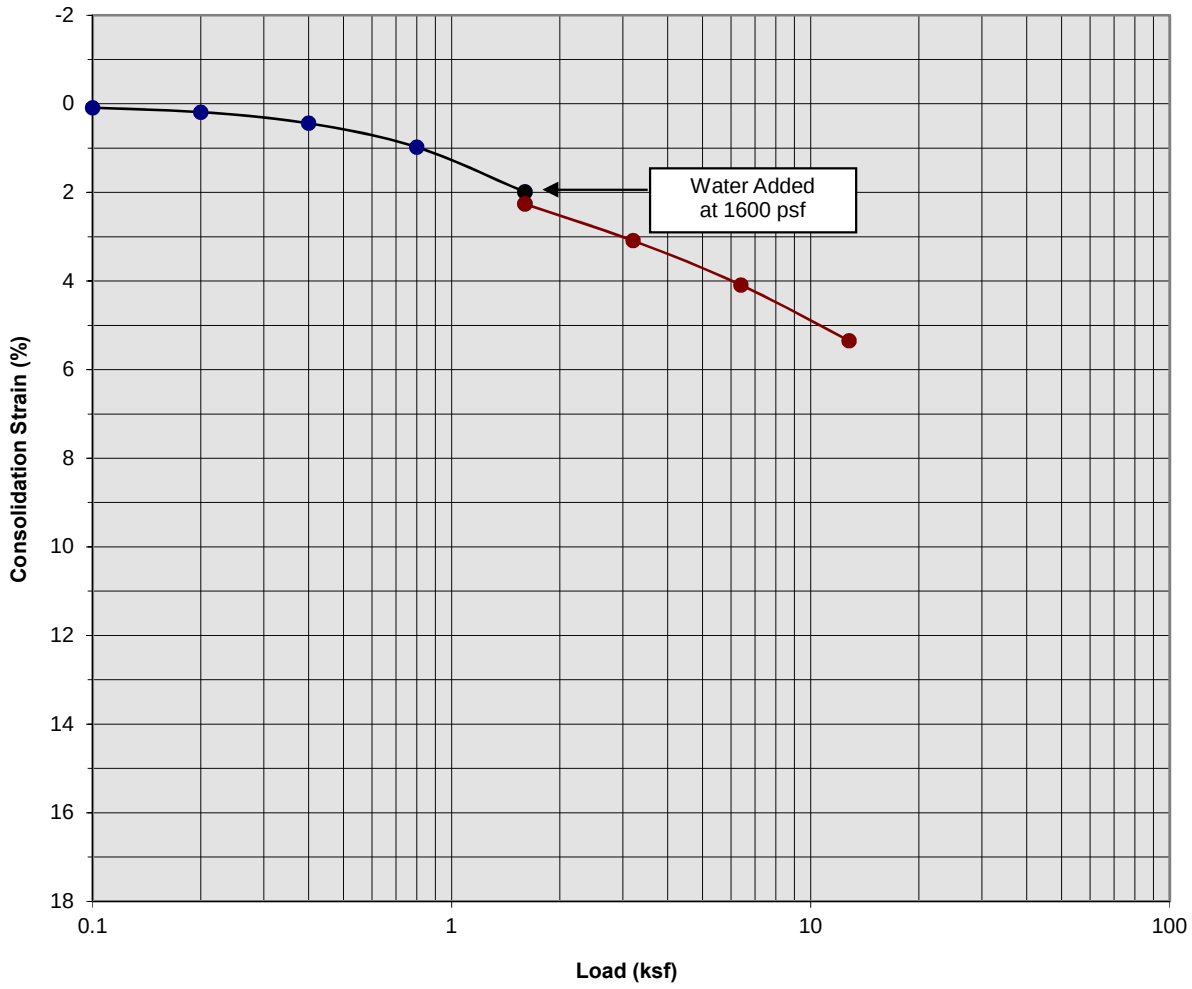
Boring Number:	T-7	Initial Moisture Content (%)	4
Sample Number:	---	Final Moisture Content (%)	20
Depth (ft)	2 to 3	Initial Dry Density (pcf)	104.9
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	108.6
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.09

Two Proposed Warehouse Buildings
Irwindale, California
Project No. 17G113

PLATE C- 1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Consolidation/Collapse Test Results



Classification: FILL: Brown Silty fine to medium Sand, trace coarse Sand, trace fine Gravel

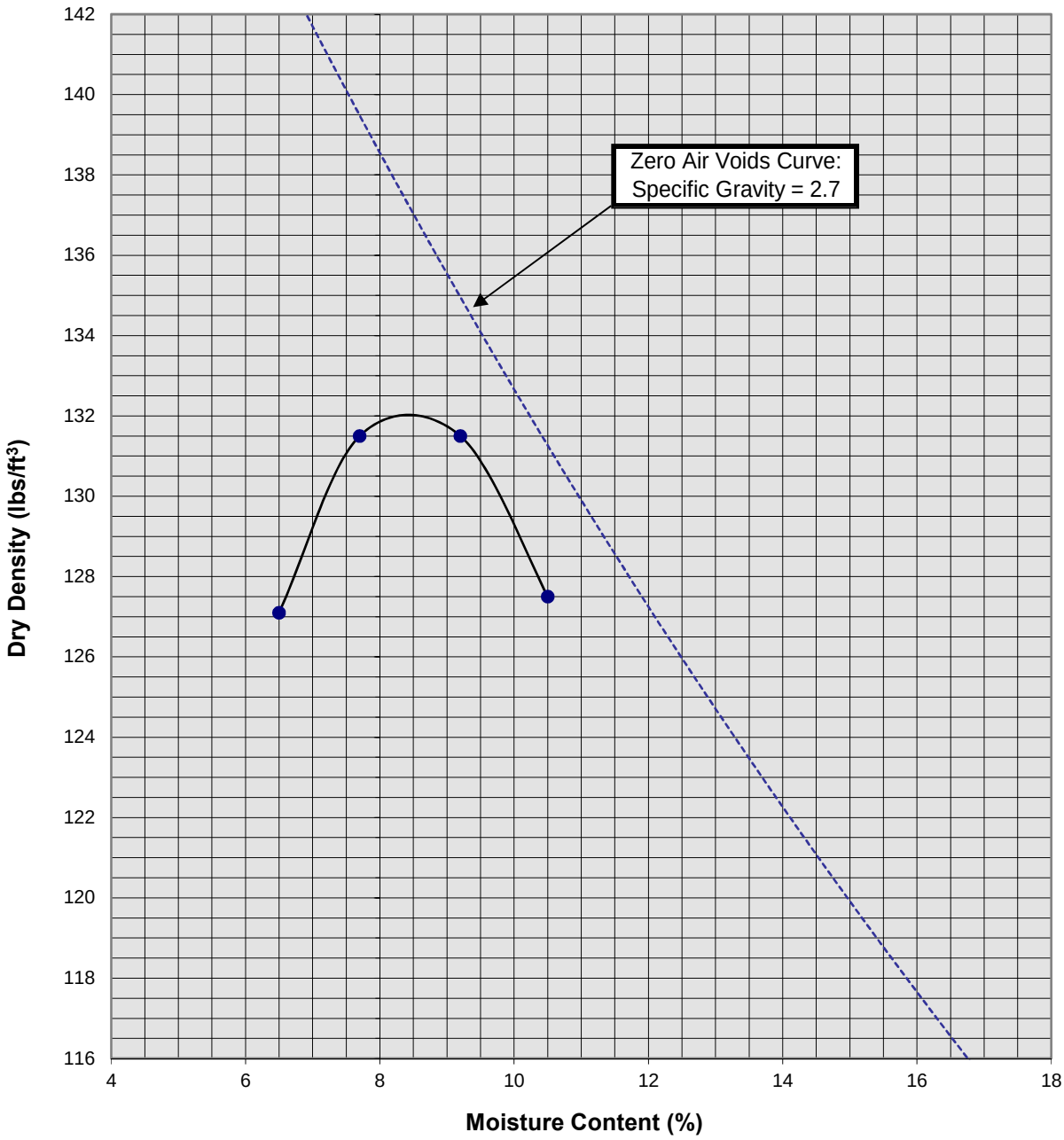
Boring Number:	T-9	Initial Moisture Content (%)	11
Sample Number:	---	Final Moisture Content (%)	20
Depth (ft)	2 to 3	Initial Dry Density (pcf)	104.0
Specimen Diameter (in)	2.4	Final Dry Density (pcf)	109.8
Specimen Thickness (in)	1.0	Percent Collapse (%)	0.27

Two Proposed Warehouse Buildings
Irwindale, California
Project No. 17G113

PLATE C- 2

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Moisture/Density Relationship
ASTM D-1557



Soil ID Number	T-5/T-8 Comp
Optimum Moisture (%)	6
Maximum Dry Density (pcf)	140.5
Soil Classification	Brown Silty fine to coarse Sand, little fine to coarse Gravel

Note: Maximum Density and Optimum Moisture are based on 30% rock correction.

Proposed Warehouse
Irwindale, California
Project No. 17G113

PLATE C-3

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

APPENDIX D

GRADING GUIDE SPECIFICATIONS

These grading guide specifications are intended to provide typical procedures for grading operations. They are intended to supplement the recommendations contained in the geotechnical investigation report for this project. Should the recommendations in the geotechnical investigation report conflict with the grading guide specifications, the more site specific recommendations in the geotechnical investigation report will govern.

General

- The Earthwork Contractor is responsible for the satisfactory completion of all earthwork in accordance with the plans and geotechnical reports, and in accordance with city, county, and applicable building codes.

- The Geotechnical Engineer is the representative of the Owner/Builder for the purpose of implementing the report recommendations and guidelines. These duties are not intended to relieve the Earthwork Contractor of any responsibility to perform in a workman-like manner, nor is the Geotechnical Engineer to direct the grading equipment or personnel employed by the Contractor.

- The Earthwork Contractor is required to notify the Geotechnical Engineer of the anticipated work and schedule so that testing and inspections can be provided. If necessary, work may be stopped and redone if personnel have not been scheduled in advance.

- The Earthwork Contractor is required to have suitable and sufficient equipment on the job-site to process, moisture condition, mix and compact the amount of fill being placed to the approved compaction. In addition, suitable support equipment should be available to conform with recommendations and guidelines in this report.

- Canyon cleanouts, overexcavation areas, processed ground to receive fill, key excavations, subdrains and benches should be observed by the Geotechnical Engineer prior to placement of any fill. It is the Earthwork Contractor's responsibility to notify the Geotechnical Engineer of areas that are ready for inspection.

- Excavation, filling, and subgrade preparation should be performed in a manner and sequence that will provide drainage at all times and proper control of erosion. Precipitation, springs, and seepage water encountered shall be pumped or drained to provide a suitable working surface. The Geotechnical Engineer must be informed of springs or water seepage encountered during grading or foundation construction for possible revision to the recommended construction procedures and/or installation of subdrains.

Site Preparation

- The Earthwork Contractor is responsible for all clearing, grubbing, stripping and site preparation for the project in accordance with the recommendations of the Geotechnical Engineer.

- If any materials or areas are encountered by the Earthwork Contractor which are suspected of having toxic or environmentally sensitive contamination, the Geotechnical Engineer and Owner/Builder should be notified immediately.

- Major vegetation should be stripped and disposed of off-site. This includes trees, brush, heavy grasses and any materials considered unsuitable by the Geotechnical Engineer.

- Underground structures such as basements, cesspools or septic disposal systems, mining shafts, tunnels, wells and pipelines should be removed under the inspection of the Geotechnical Engineer and recommendations provided by the Geotechnical Engineer and/or city, county or state agencies. If such structures are known or found, the Geotechnical Engineer should be notified as soon as possible so that recommendations can be formulated.

- Any topsoil, slopewash, colluvium, alluvium and rock materials which are considered unsuitable by the Geotechnical Engineer should be removed prior to fill placement.

- Remaining voids created during site clearing caused by removal of trees, foundations basements, irrigation facilities, etc., should be excavated and filled with compacted fill.

- Subsequent to clearing and removals, areas to receive fill should be scarified to a depth of 10 to 12 inches, moisture conditioned and compacted

- The moisture condition of the processed ground should be at or slightly above the optimum moisture content as determined by the Geotechnical Engineer. Depending upon field conditions, this may require air drying or watering together with mixing and/or discing.

Compacted Fills

- Soil materials imported to or excavated on the property may be utilized in the fill, provided each material has been determined to be suitable in the opinion of the Geotechnical Engineer. Unless otherwise approved by the Geotechnical Engineer, all fill materials shall be free of deleterious, organic, or frozen matter, shall contain no chemicals that may result in the material being classified as “contaminated,” and shall be very low to non-expansive with a maximum expansion index (EI) of 50. The top 12 inches of the compacted fill should have a maximum particle size of 3 inches, and all underlying compacted fill material a maximum 6-inch particle size, except as noted below.

- All soils should be evaluated and tested by the Geotechnical Engineer. Materials with high expansion potential, low strength, poor gradation or containing organic materials may require removal from the site or selective placement and/or mixing to the satisfaction of the Geotechnical Engineer.

- Rock fragments or rocks less than 6 inches in their largest dimensions, or as otherwise determined by the Geotechnical Engineer, may be used in compacted fill, provided the distribution and placement is satisfactory in the opinion of the Geotechnical Engineer.

- Rock fragments or rocks greater than 12 inches should be taken off-site or placed in accordance with recommendations and in areas designated as suitable by the Geotechnical Engineer. These materials should be placed in accordance with Plate D-8 of these Grading Guide Specifications and in accordance with the following recommendations:

    - Rocks 12 inches or more in diameter should be placed in rows at least 15 feet apart, 15 feet from the edge of the fill, and 10 feet or more below subgrade. Spaces should be left between each rock fragment to provide for placement and compaction of soil around the fragments.

    - Fill materials consisting of soil meeting the minimum moisture content requirements and free of oversize material should be placed between and over the rows of rock or

concrete. Ample water and compactive effort should be applied to the fill materials as they are placed in order that all of the voids between each of the fragments are filled and compacted to the specified density.

- Subsequent rows of rocks should be placed such that they are not directly above a row placed in the previous lift of fill. A minimum 5-foot offset between rows is recommended.

- To facilitate future trenching, oversized material should not be placed within the range of foundation excavations, future utilities or other underground construction unless specifically approved by the soil engineer and the developer/owner representative.

- Fill materials approved by the Geotechnical Engineer should be placed in areas previously prepared to receive fill and in evenly placed, near horizontal layers at about 6 to 8 inches in loose thickness, or as otherwise determined by the Geotechnical Engineer for the project.

- Each layer should be moisture conditioned to optimum moisture content, or slightly above, as directed by the Geotechnical Engineer. After proper mixing and/or drying, to evenly distribute the moisture, the layers should be compacted to at least 90 percent of the maximum dry density in compliance with ASTM D-1557-78 unless otherwise indicated.

- Density and moisture content testing should be performed by the Geotechnical Engineer at random intervals and locations as determined by the Geotechnical Engineer. These tests are intended as an aid to the Earthwork Contractor, so he can evaluate his workmanship, equipment effectiveness and site conditions. The Earthwork Contractor is responsible for compaction as required by the Geotechnical Report(s) and governmental agencies.

- Fill areas unused for a period of time may require moisture conditioning, processing and recompaction prior to the start of additional filling. The Earthwork Contractor should notify the Geotechnical Engineer of his intent so that an evaluation can be made.

- Fill placed on ground sloping at a 5-to-1 inclination (horizontal-to-vertical) or steeper should be benched into bedrock or other suitable materials, as directed by the Geotechnical Engineer. Typical details of benching are illustrated on Plates D-2, D-4, and D-5.

- Cut/fill transition lots should have the cut portion overexcavated to a depth of at least 3 feet and rebuilt with fill (see Plate D-1), as determined by the Geotechnical Engineer.

- All cut lots should be inspected by the Geotechnical Engineer for fracturing and other bedrock conditions. If necessary, the pads should be overexcavated to a depth of 3 feet and rebuilt with a uniform, more cohesive soil type to impede moisture penetration.

- Cut portions of pad areas above buttresses or stabilizations should be overexcavated to a depth of 3 feet and rebuilt with uniform, more cohesive compacted fill to impede moisture penetration.

- Non-structural fill adjacent to structural fill should typically be placed in unison to provide lateral support. Backfill along walls must be placed and compacted with care to ensure that excessive unbalanced lateral pressures do not develop. The type of fill material placed adjacent to below grade walls must be properly tested and approved by the Geotechnical Engineer with consideration of the lateral earth pressure used in the design.

Foundations

- The foundation influence zone is defined as extending one foot horizontally from the outside edge of a footing, and proceeding downward at a ½ horizontal to 1 vertical (0.5:1) inclination.

- Where overexcavation beneath a footing subgrade is necessary, it should be conducted so as to encompass the entire foundation influence zone, as described above.

- Compacted fill adjacent to exterior footings should extend at least 12 inches above foundation bearing grade. Compacted fill within the interior of structures should extend to the floor subgrade elevation.

Fill Slopes

- The placement and compaction of fill described above applies to all fill slopes. Slope compaction should be accomplished by overfilling the slope, adequately compacting the fill in even layers, including the overfilled zone and cutting the slope back to expose the compacted core

- Slope compaction may also be achieved by backrolling the slope adequately every 2 to 4 vertical feet during the filling process as well as requiring the earth moving and compaction equipment to work close to the top of the slope. Upon completion of slope construction, the slope face should be compacted with a sheepsfoot connected to a sideboom and then grid rolled. This method of slope compaction should only be used if approved by the Geotechnical Engineer.

- Sandy soils lacking in adequate cohesion may be unstable for a finished slope condition and therefore should not be placed within 15 horizontal feet of the slope face.

- All fill slopes should be keyed into bedrock or other suitable material. Fill keys should be at least 15 feet wide and inclined at 2 percent into the slope. For slopes higher than 30 feet, the fill key width should be equal to one-half the height of the slope (see Plate D-5).

- All fill keys should be cleared of loose slough material prior to geotechnical inspection and should be approved by the Geotechnical Engineer and governmental agencies prior to filling.

- The cut portion of fill over cut slopes should be made first and inspected by the Geotechnical Engineer for possible stabilization requirements. The fill portion should be adequately keyed through all surficial soils and into bedrock or suitable material. Soils should be removed from the transition zone between the cut and fill portions (see Plate D-2).

Cut Slopes

- All cut slopes should be inspected by the Geotechnical Engineer to determine the need for stabilization. The Earthwork Contractor should notify the Geotechnical Engineer when slope cutting is in progress at intervals of 10 vertical feet. Failure to notify may result in a delay in recommendations.

- Cut slopes exposing loose, cohesionless sands should be reported to the Geotechnical Engineer for possible stabilization recommendations.

- All stabilization excavations should be cleared of loose slough material prior to geotechnical inspection. Stakes should be provided by the Civil Engineer to verify the location and dimensions of the key. A typical stabilization fill detail is shown on Plate D-5.

- Stabilization key excavations should be provided with subdrains. Typical subdrain details are shown on Plates D-6.

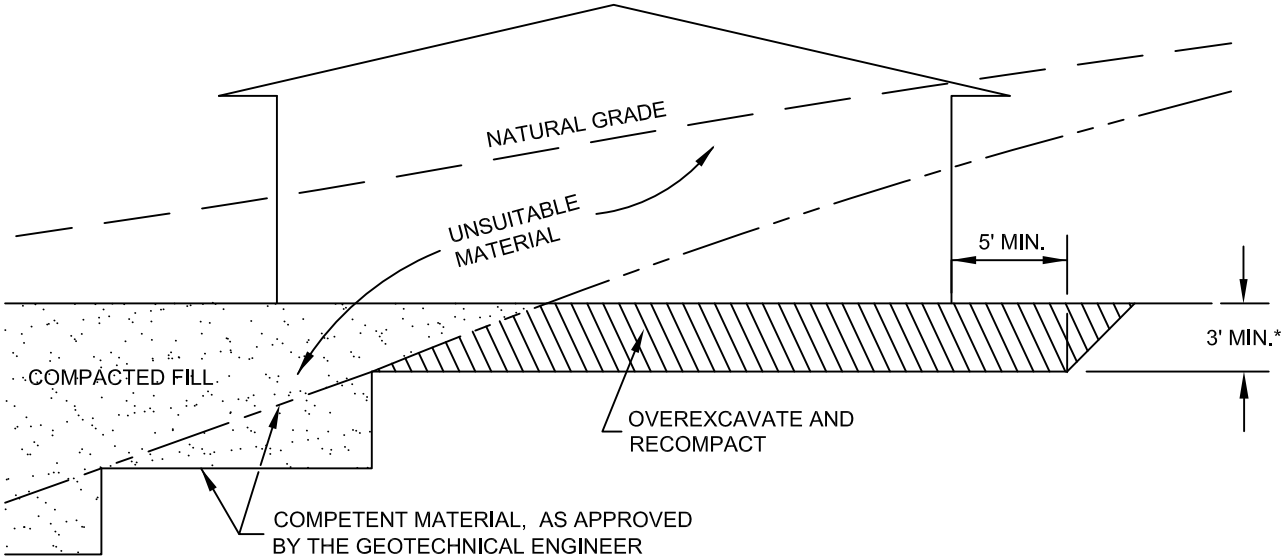
Subdrains

- Subdrains may be required in canyons and swales where fill placement is proposed. Typical subdrain details for canyons are shown on Plate D-3. Subdrains should be installed after approval of removals and before filling, as determined by the Soils Engineer.

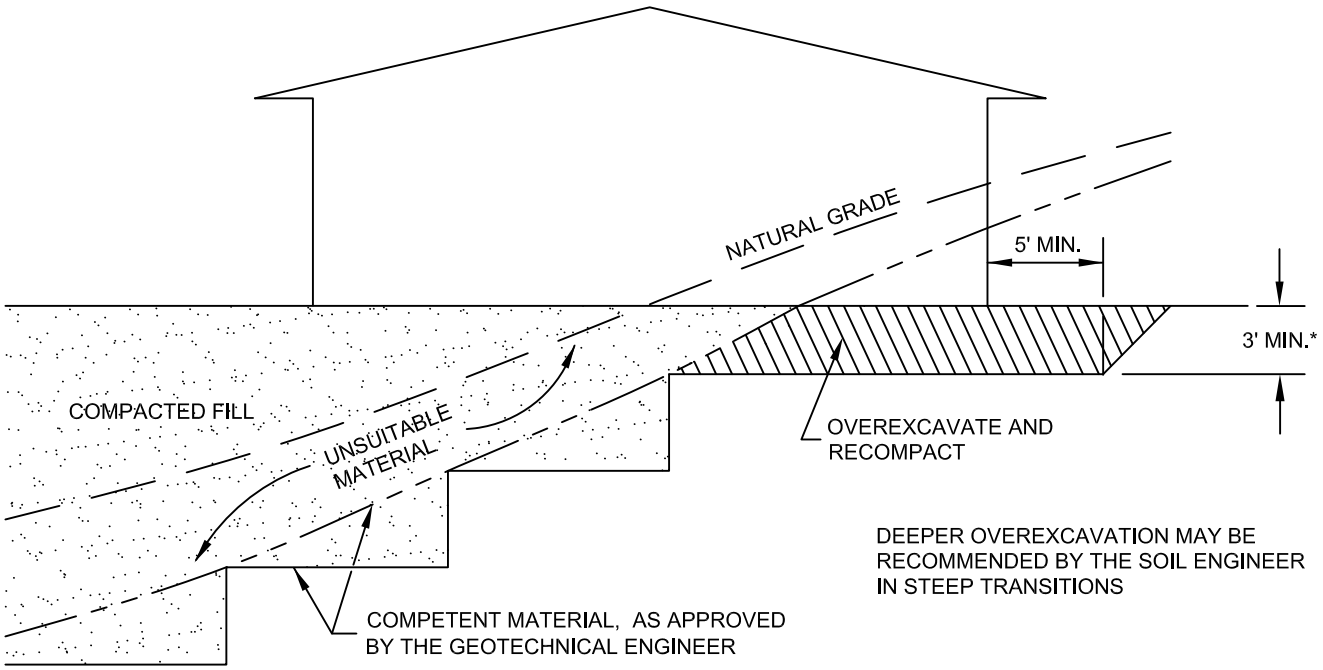
- Plastic pipe may be used for subdrains provided it is Schedule 40 or SDR 35 or equivalent. Pipe should be protected against breakage, typically by placement in a square-cut (backhoe) trench or as recommended by the manufacturer.

- Filter material for subdrains should conform to CALTRANS Specification 68-1.025 or as approved by the Geotechnical Engineer for the specific site conditions. Clean ¾-inch crushed rock may be used provided it is wrapped in an acceptable filter cloth and approved by the Geotechnical Engineer. Pipe diameters should be 6 inches for runs up to 500 feet and 8 inches for the downstream continuations of longer runs. Four-inch diameter pipe may be used in buttress and stabilization fills.

CUT LOT



CUT/FILL LOT (TRANSITION)



*SEE TEXT OF REPORT FOR SPECIFIC RECOMMENDATION. ACTUAL DEPTH OF OVEREXCAVATION MAY BE GREATER.

TRANSITION LOT DETAIL

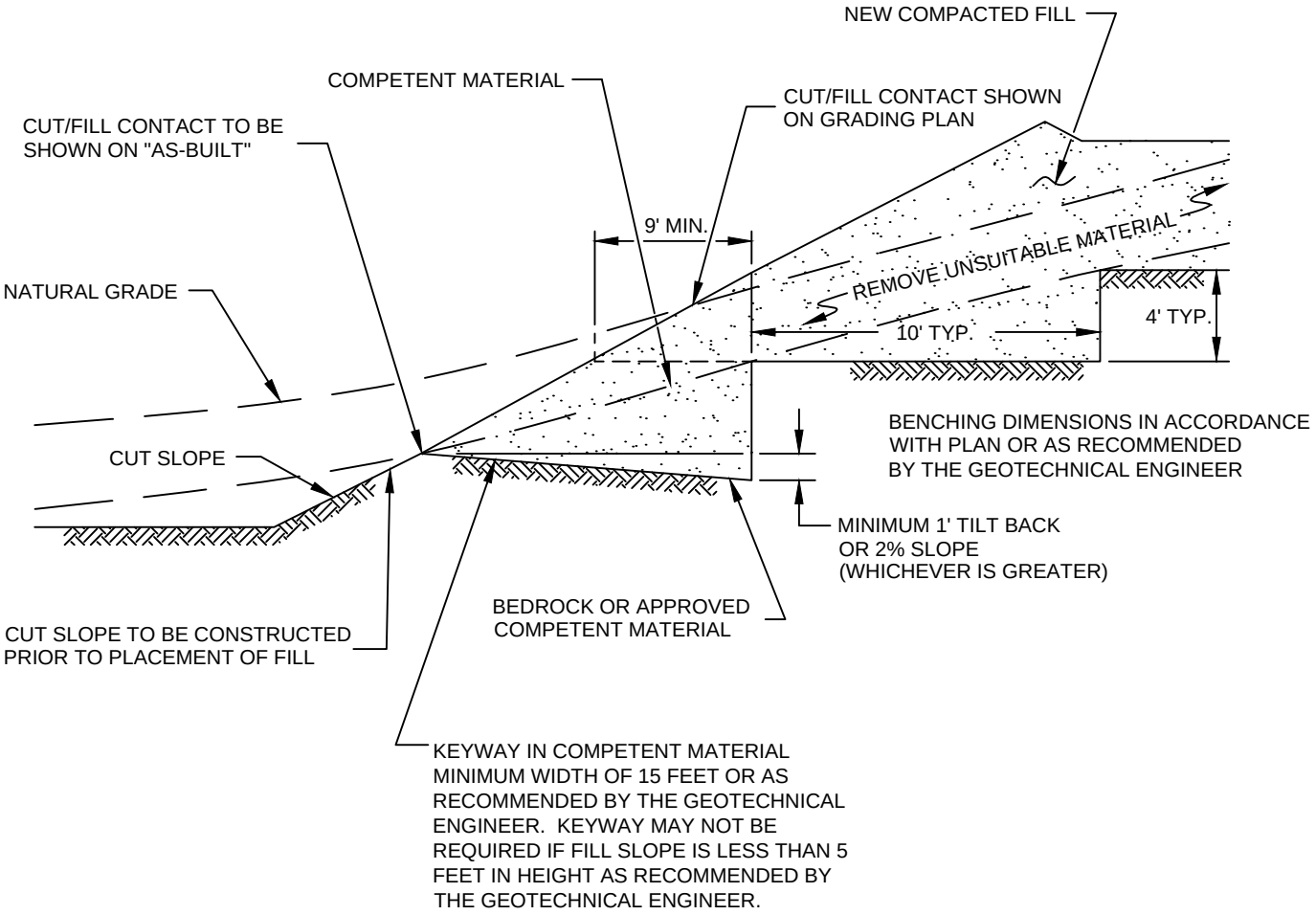
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



FILL ABOVE CUT SLOPE DETAIL

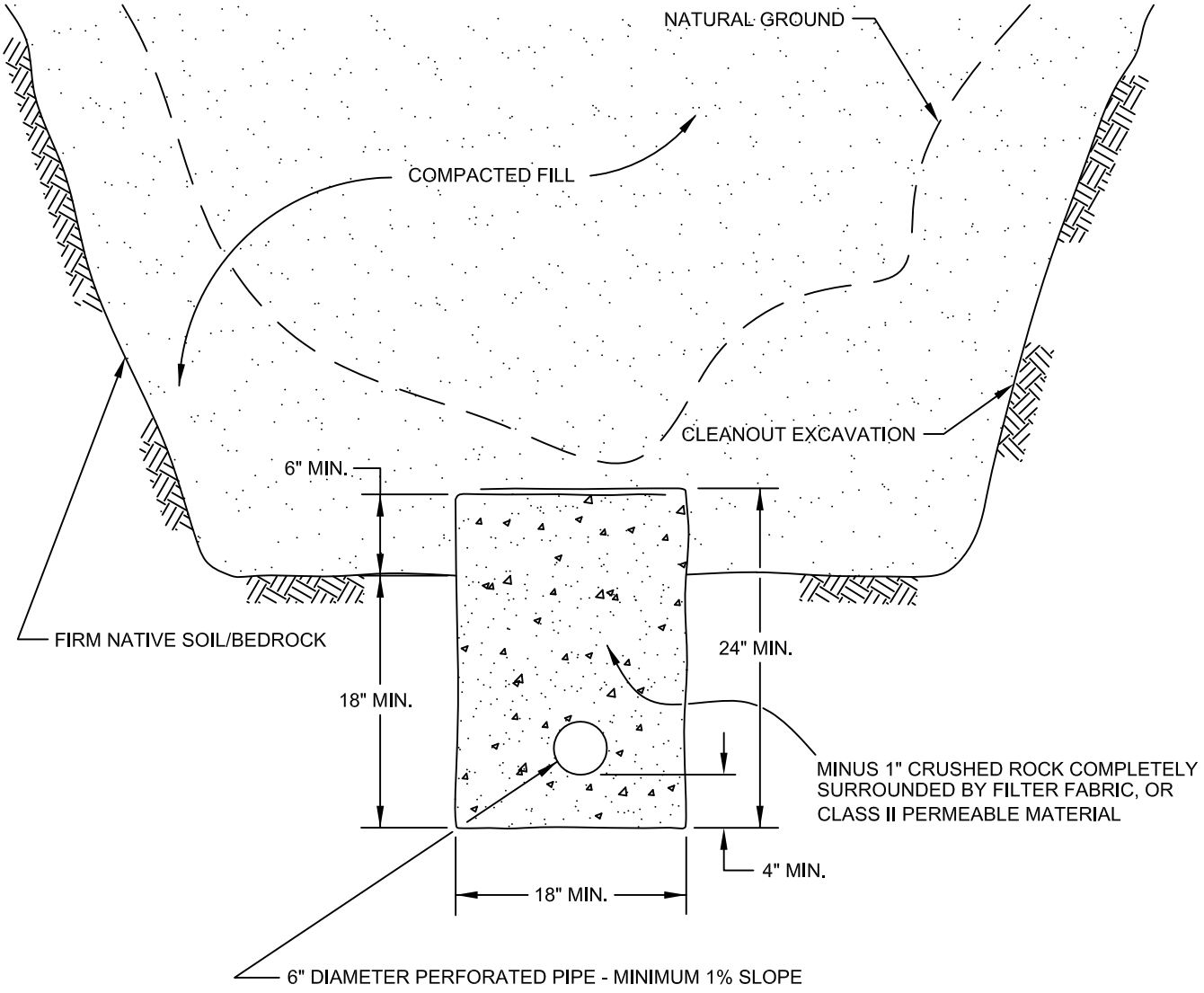
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-2

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



PIPE MATERIAL	DEPTH OF FILL OVER SUBDRAIN
ADS (CORRUGATED POLETHYLENE)	8
TRANSITE UNDERDRAIN	20
PVC OR ABS: SDR 35	35
SDR 21	100

SCHEMATIC ONLY
NOT TO SCALE

CANYON SUBDRAIN DETAIL

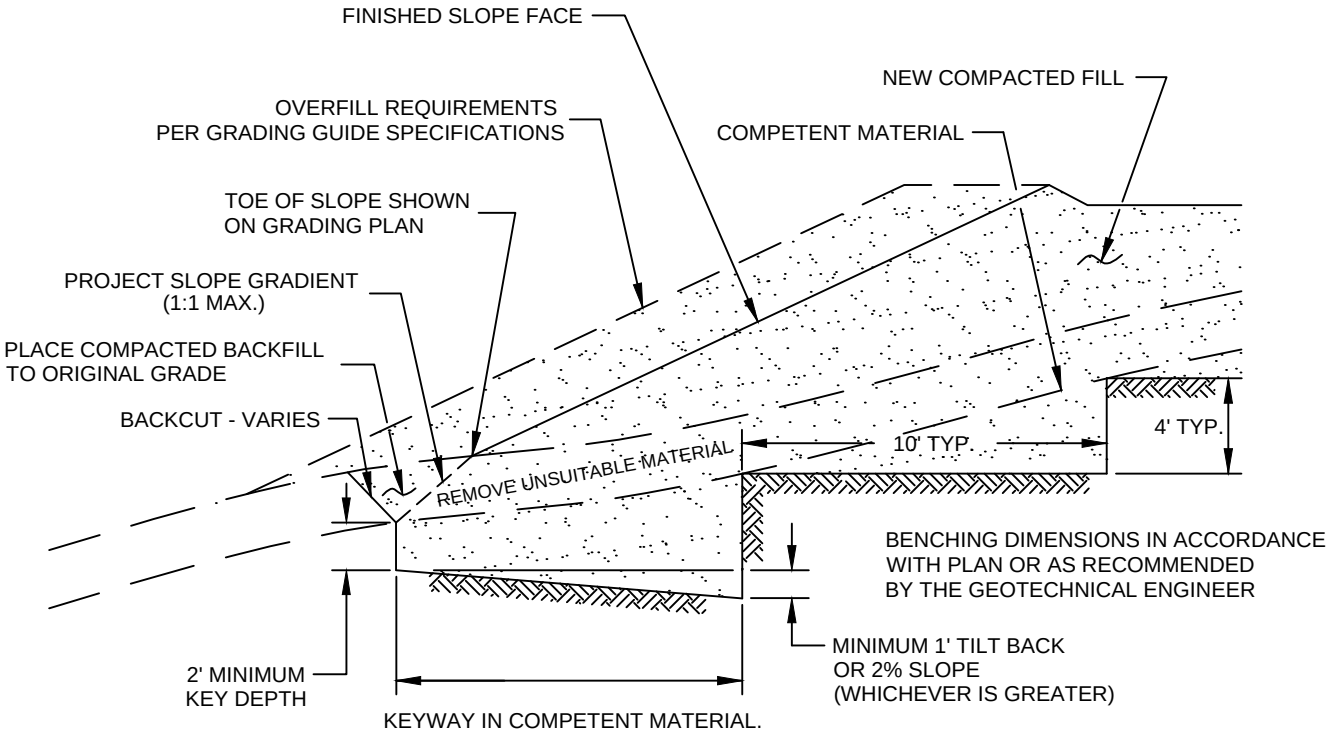
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-3

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



NOTE:
BENCHING SHALL BE REQUIRED
WHEN NATURAL SLOPES ARE
EQUAL TO OR STEEPER THAN 5:1
OR WHEN RECOMMENDED BY
THE GEOTECHNICAL ENGINEER.

FILL ABOVE NATURAL SLOPE DETAIL

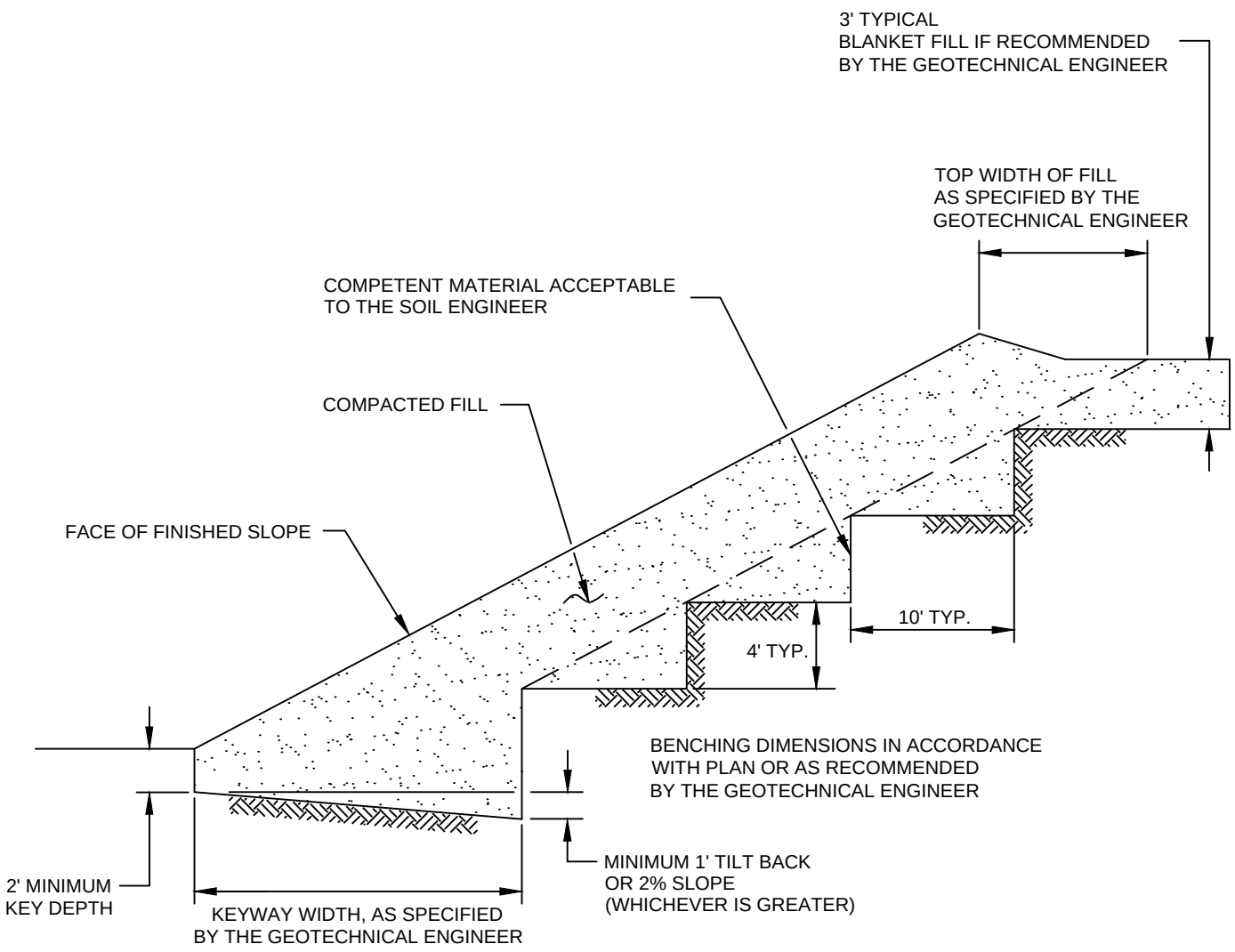
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-4

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



STABILIZATION FILL DETAIL

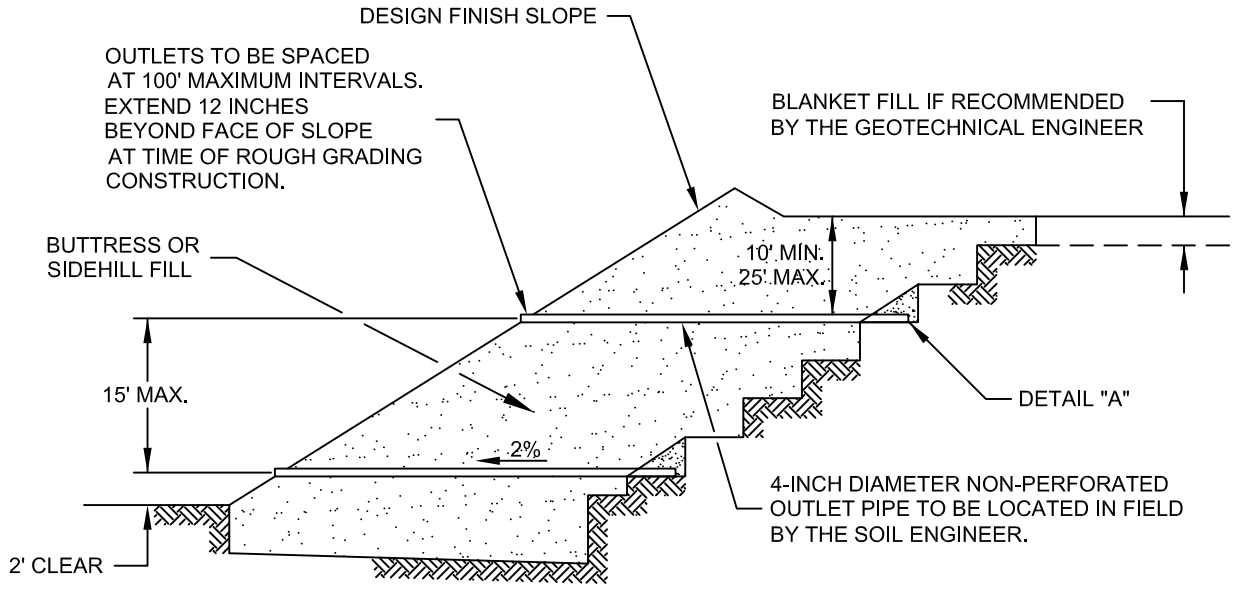
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-5

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



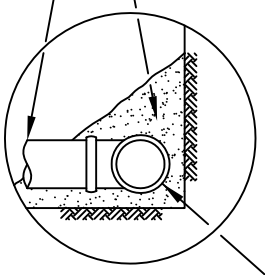
"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50



DETAIL "A"

NOTES:
1. TRENCH FOR OUTLET PIPES TO BE BACKFILLED WITH ON-SITE SOIL.

SLOPE FILL SUBDRAINS

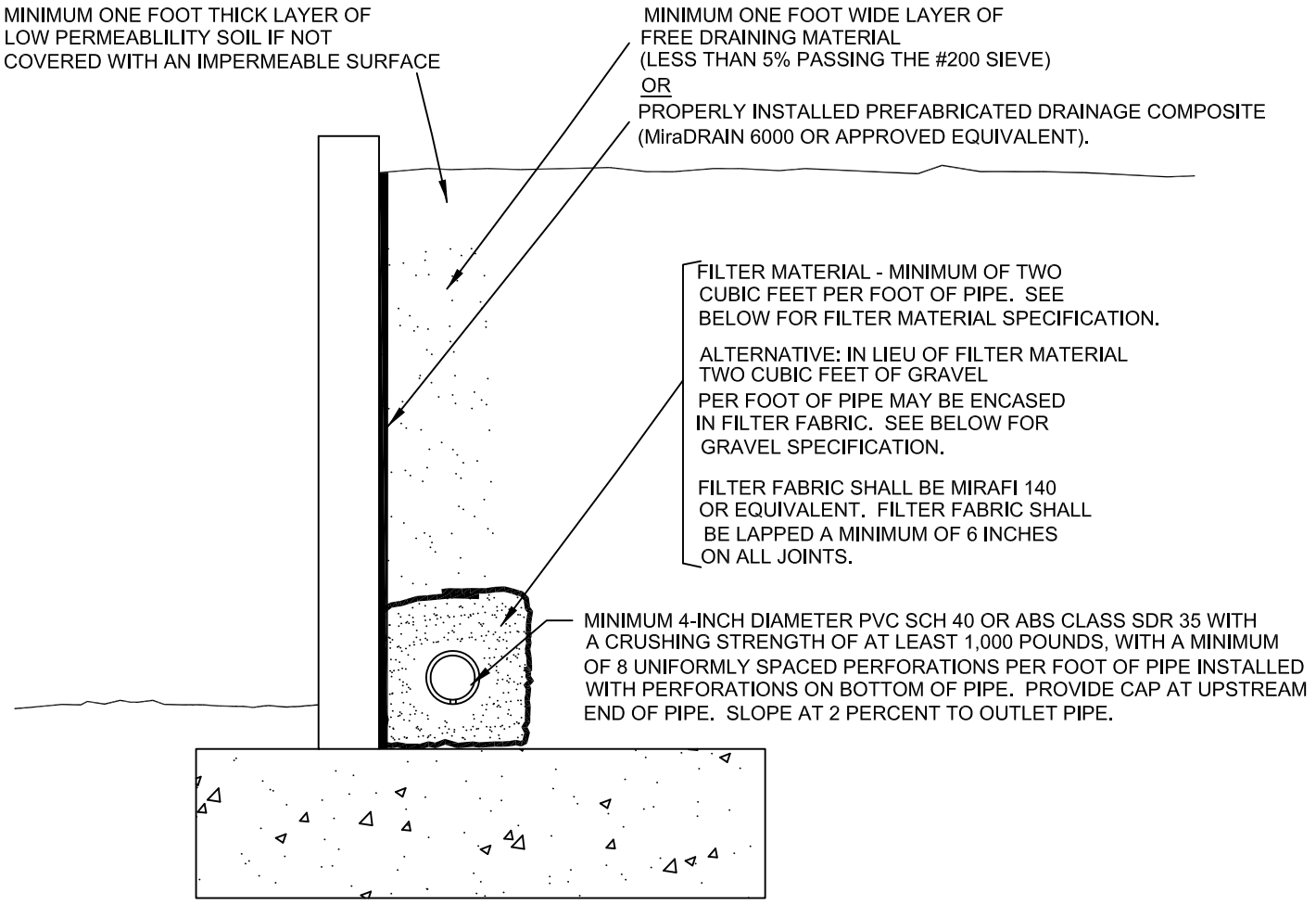
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-6

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

SIEVE SIZE	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	40-100
NO. 4	25-40
NO. 8	18-33
NO. 30	5-15
NO. 50	0-7
NO. 200	0-3

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50

RETAINING WALL BACKDRAINS

GRADING GUIDE SPECIFICATIONS

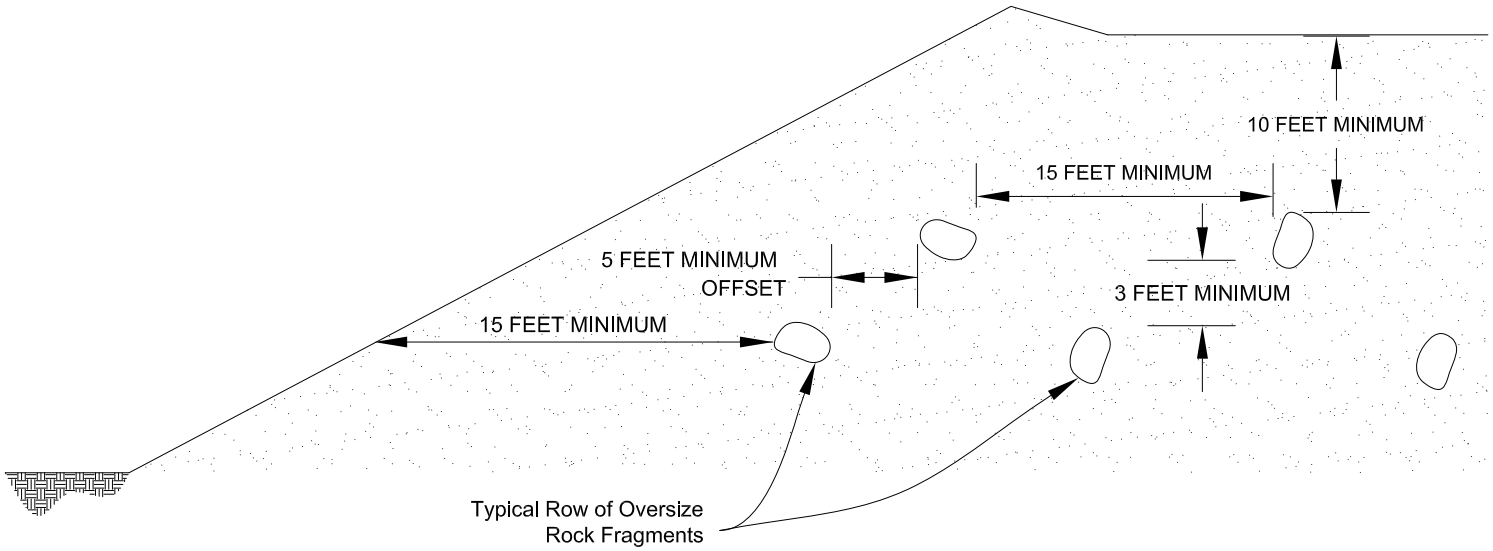
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

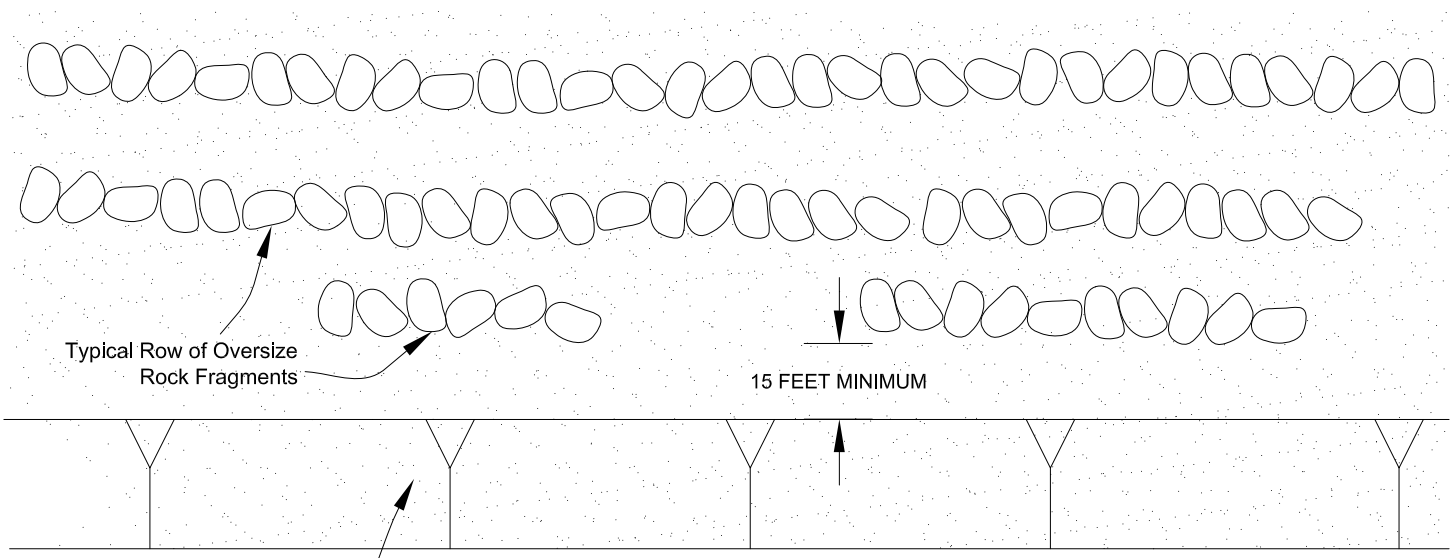
PLATE D-7

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



Section View



Plan View

PLACEMENT OF OVERSIZED MATERIAL

GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: PM
CHKD: GKM

PLATE D-8

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX E

USGS Design Maps Summary Report

User–Specified Input

Building Code Reference Document ASCE 7-10 Standard
(which utilizes USGS hazard data available in 2008)

Site Coordinates 34.10341°N, 117.94202°W

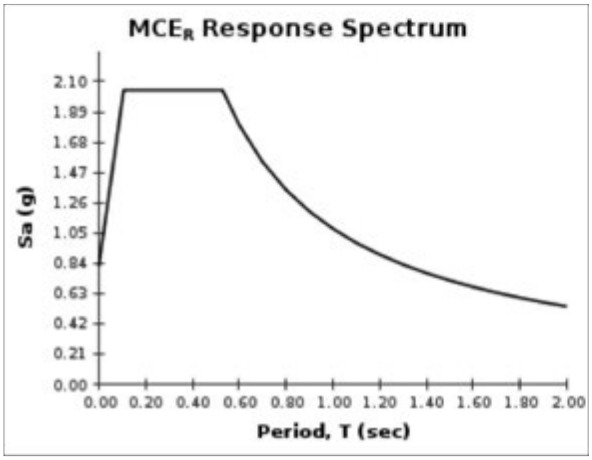
Site Soil Classification Site Class D – "Stiff Soil"

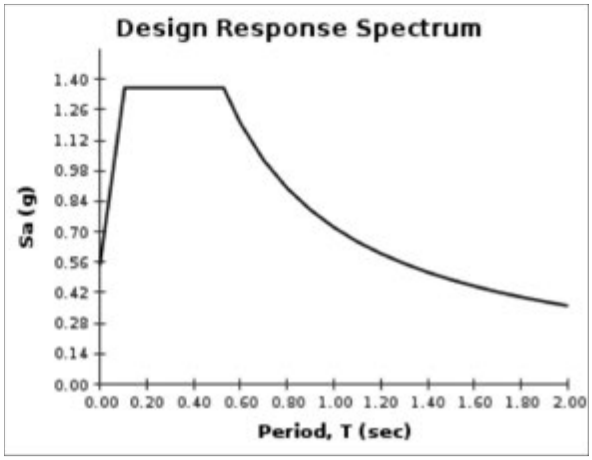
Risk Category I/II/III

USGS–Provided Output

S_S =	2.040 g	S_{MS} =	2.040 g	S_{DS} =	1.360 g
S_1 =	0.720 g	S_{M1} =	1.080 g	S_{D1} =	0.720 g

For information on how the SS and S1 values above have been calculated from probabilistic (risk-targeted) and deterministic ground motions in the direction of maximum horizontal response, please return to the application and select the "2009 NEHRP" building code reference document.





SOURCE: U.S. GEOLOGICAL SURVEY (USGS)
<http://geohazards.usgs.gov/designmaps/us/application.php>

SEISMIC DESIGN PARAMETERS
TWO PROPOSED WAREHOUSE BUILDINGS
IRWINDALE, CALIFORNIA

DRAWN: JLL
CHKD: RGT

SCG PROJECT
17G113-1

PLATE E-1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX E

Phase I and Phase II Environmental Site Assessments

APPENDIX E.1

Phase I Environmental Site Assessment

Phase I Environmental Site Assessment

5010 Azusa Canyon Road
Irwindale, California

Prepared for:
Overton Moore Properties
19300 South Hamilton Avenue, Suite 200
Gardena, California 90248
and
LaSalle Investment Management, Inc.
100 Est Pratt Street
Baltimore, Maryland 21202

Prepared by:
Ardent Environmental Group, Inc.
1827 Capital Street, Suite 103
Corona, California 92880

April 18, 2017
Project No. 100835001D

ARDENT
ENVIRONMENTAL GROUP, INC.

April 18, 2017
Project No. 10835001D

Mr. Jason Hines
Overton Moore Properties
19300 South Hamilton Avenue, Suite 200
Gardena, California 90248
and
Mr. Henry Feibusch
LaSalle Investment Management, Inc.
100 East Pratt Street
Baltimore, Maryland 21202

Subject: Phase I Environmental Site Assessment
5010 Azusa Canyon Road
Irwindale, California

Dear Messrs. Hines and Feibusch:

Ardent Environmental Group, Inc. (Ardent) has performed a Phase I Environmental Site Assessment (ESA) of the above-referenced property (site). Work was conducted in general accordance with the proposal between Ardent and Overton Moore Properties, dated January 13, 2017, and the Master Agreement between LaSalle Investment Management, Inc. and Ardent, dated November 3, 2015. The attached report presents our methodology, findings, opinions, and conclusions regarding the environmental conditions at the site. We appreciate the opportunity to be of service to you on this project. If there are any questions, please feel free to call the undersigned at your convenience.

Sincerely,
Ardent Environmental Group, Inc.

Heidi Heggeness
Staff Geologist

Paul Roberts, P.G.
Principal Geologist

PAR/HH/nw

Distribution: (1) Addressee (electronic copy)

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Appendix G – Resumes

EXECUTIVE SUMMARY

Ardent Environmental Group, Inc. (Ardent) was retained by Overton Moore Properties (OMP) and LaSalle Investment Management, Inc. (LIM, collectively referred to as "OMP/LIM") to perform a Phase I Environmental Site Assessment (ESA) of the property located at 5010 Azusa Canyon Road in the city of Irwindale, California (site). Frontier Communications Corporation (Frontier) currently owns the site. The site has historically been used by GTE, Verizon, and Frontier as a telecommunication maintenance yard. The telecommunication maintenance yard comprises five main buildings, referred to as the Office Building, Supply Building, Large Storage Building, Vehicle Service Building, and Truck Wash Tunnel, and numerous small outbuildings. OMP/LIM is considering purchasing the site as part of a portfolio of Frontier properties located throughout Southern California. Following acquisition, OMP/LIM is planning to lease the property back to Frontier for approximately two years, after which, the property will be redeveloped for commercial purposes. Site assessment activities for this report were conducted between January 17, 2017 and February 21, 2017.

In summary, the following findings and conclusions were noted:

- From at least 1928 through 1952, the site was used for agricultural purposes and residences. In approximately 1957, the site began to be used as a telecommunication maintenance yard. The Vehicle Service Building was constructed in 1957. In 1964, a large office building was located in the southwestern portion of the site and oriented in an east-west direction. By 1966, the historical office building was replaced with the existing Office Building, Supply Building, Large Storage Building, and Truck Wash Tunnel.
- Groundwater has been measured in the site vicinity at depths of approximately 250 feet below the ground surface (bgs) and flows in a southwesterly direction. The site is located within the San Gabriel Valley Groundwater Basin. Portions of the San Gabriel Valley Groundwater Basin have been listed on the National Priority List (NPL), or Superfund Site. The site is located within the Baldwin Park Operable Unit of the San Gabriel Valley Groundwater Basin which has been impacted with volatile organic compounds (VOCs), namely the chlorinated solvents trichloroethene (TCE) and tetrachloroethylene (PCE), which were historically used by the commercial and industrial facilities located in this area. Based on our review of groundwater plume maps provided by the United States Environmental Protection Agency (EPA or USEPA), the site is located within a VOC plume and groundwater beneath the site has been impacted with chlorinated solvents ranging from the Maximum Contaminant Levels (MCLs) to 10 times the MCLs. On behalf of the EPA, the Regional Water Quality Control Board, Los Angeles Region (RWQCB) has investigated the site as part of their Well Investigation Program (WIP). Two investigations were completed at the site which indicated relatively low concentrations of VOCs, including chlorinated solvents. An initial soil and soil gas survey completed in 1991 resulted in a no further action (NFA) letter dated September 3, 1992, and an additional investigation completed in 1995 resulted in another NFA letter dated June 5, 1998. The regional VOC-impacted groundwater would be

considered a recognized environmental condition (REC). Issuance of the NFA letter indicates that the site operations have not contributed to the regional groundwater contamination, and therefore, the site owner would not be considered a Responsible Party.

- As part of the maintenance activities, fueling and maintenance of fleet vehicles included the use of underground storage tanks (USTs). Throughout the years, these tanks were removed and replaced with aboveground storage tanks (ASTs). The on-site USTs included one 10,000-gallon diesel UST associated with the southern dispenser which was removed in 1988, a 12,000-gallon gasoline UST associated with the northern dispenser which was removed in 1996, a 10,000-gallon gasoline UST which replaced the 12,000-gallon UST and was removed in 2009, and a 1,000-gallon waste oil UST located immediately south of the Vehicle Service Building which was removed in 1996. It should be noted that a fifth UST may have been located in the same general area as the tank associated with the southern dispenser island. A building permit dated 1957 was noted for a “gas pump canopy.” At this time, only the southern dispenser was noted on-site. It is assumed this tank was replaced with the 10,000-galon UST discussed above, which was ultimately removed. The four USTs were removed under the direction and oversight of the Los Angeles County Department of Public Works (LACDPW), and impacted soils were remediated by excavation. Laboratory results of confirmation samples showed no detectable to low concentrations of residual contaminants. Based on these results, NFA letters were issued by the LACDPW. Ardent has reviewed these data and concur with the regulatory agency that no further work is necessary. Based on these results, these former USTs would no longer be considered an environmental concern to the site. According to American Society for Testing and Materials (ASTM) Standards, these former features would be considered a historical recognized environmental condition (HREC).
- The Vehicle Service Building formerly used four hydraulic lifts (which have been removed) and currently uses three hydraulic lifts. None of these features have been investigated. Based on this information, these features would be considered an environmental concern to the site. Solvents are also typically used to clean parts. Due to the possible solvent use in the Vehicle Service Building, a vapor intrusion issue may be present.
- A former steam cleaning area was also located in the mid-central portion of the Vehicle Service Building. The former steam cleaning area was reportedly connected to two clarifiers. The clarifiers were reportedly “removed” or “abandoned,” it was not clarified which occurred. The area has since been remodeled to include an office area. Steam cleaning activities typically use solvents as degreaser agents. One soil gas point was placed in the vicinity of the clarifiers in 1991 as part of the WIP investigations. Laboratory results indicated no detectable concentrations of VOCs and low concentrations of petroleum hydrocarbons (10 milligrams per kilogram [mg/kg]) in soil and total VOC concentrations of 4.85 to 8.94 micrograms per liter (ug/l), a breakdown per constituent was not provided. Although these laboratory results are relatively low, it is our judgement that the clarifiers and former steam cleaning area were not adequately assessed. Based on this information, these features would be considered an environmental concern to the site and may pose a possible vapor intrusion issue.
- Three 120-gallon underground hydraulic fluid reservoirs were located immediately south of the Vehicle Service Building. Although representatives of Frontier did not know what these features were used for, it is our assumption, based on their location, that the reservoirs were used to store hydraulic oil for the hydraulic lifts. Hydraulic oil is now supplied to the lifts by

two ASTs. The reservoirs have not been previously investigated, and therefore, would be considered an environmental concern to the site.

- The Truck Wash Tunnel includes an area in the northwestern portion of the site that contains a truck washing area, a clarifier, a steam cleaning pad and floor drain, former hazardous waste storage area, former septic tank, two cesspools, and a waste drum storage enclosure. This area was investigated in 1991 as part of the WIP investigations and included the collection of shallow soil and soil gas samples. Laboratory results of soil samples indicated no detectable concentrations of VOCs, and only one soil sample reported elevated concentrations of petroleum hydrocarbons next to the clarifier (at 11,000 mg/kg at 7.5 feet). Total VOCs in soil gas ranged from 0.89 ug/l in a former hazardous waste storage area located near the northeastern corner of the Truck Wash Tunnel to 215.1 ug/l near the clarifier outlet. A breakdown of the VOC constituents was not provided. Although the RWQCB issued a NFA letter, the consultant completing the project recommended that the petroleum hydrocarbon impacted soil and clarifier be removed. In 1992, the clarifier and 47 tons of impacted soils were excavated and removed. Laboratory results of confirmation samples indicated no detectable to low concentrations of petroleum hydrocarbons and VOCs. The RWQCB issued a NFA letter dated January 20, 1993. Although the impacted materials appear to have been removed, the remediation effort was completed over 24 years ago and this area has continued to be used to clean vehicles and store hazardous wastes. Based on this information, the Truck Wash Tunnel area would be considered an environmental concern to the site and may pose a vapor intrusion issue.
- In 1956, a site plan referenced the installation of a dry well located in the northeastern portion of the site. The dry well was connected to a former truck scale, that has since been removed from the site. Based on a review of the site plan, the dry well would now be located beneath the existing Large Storage Building. A circular steel plate was noted in this general area. Rainwater accumulated within the subsurface compartment holding the truck scale would drain to the dry well. Since rainwater would likely contain oil and grease from the truck scale, this feature would be considered an environmental concern to the site. A circular steel plate was also located near the Large Storage Building, which may also be a dry well. In additional, solvent storage was noted by Ardent in the Large Storage Building.
- Verizon was listed as a small quantity generator of hazardous waste, including chlorinated solvents. Solvents are typically used for parts cleaning and degreasing purposes. Due to the possible solvent uses in the Vehicle Service Building, former steam cleaning area, Truck Wash Tunnel area, and Large Storage Building, a possible vapor intrusion issue may be present.
- Numerous 55-gallon drums and other containers were noted throughout the site used to contain waste oil, virgin oil, oil filters, and/or other liquid or hazardous materials. Due to the lack of staining or evidence of a release, these containers would not be considered an environmental concern to the site.
- Based on the age of the buildings (1957, 1964, and 1966), asbestos containing building materials (ACMs) and lead-based paint (LBP) may be present.
- No other on- or off-site environmental concerns were noted.

Ardent has performed this Phase I ESA in general conformance with the scope and limitations of the ASTM Practice E 1527-13, ASTM Practice E 2600-15, and the Environmental Protection Agency (EPA) Standards and Practices for All Appropriate Inquiry (AAI), Final Rule (40 CFR, Part 312), for the property located at 5010 Azusa Canyon Road in the city of Irwindale, California. Any limitations or exceptions encountered during completion of this report are stated in Section 1.4. Based on this Phase I ESA, no evidence or indication of recognized environmental conditions (RECs), or conditions indicative of releases or threatened releases of hazardous substances on, at, in, or to the site has been revealed, except for the former and current hydraulic lifts in the Vehicle Service Building, features associated with the Truck Wash Tunnel (including the truck washing area, clarifier, steam cleaning pad and floor drain, former cesspool, waste drum storage enclosure, and former hazardous waste storage area), three underground hydraulic oil reservoirs, the former steam cleaning area and two former clarifiers in the Vehicle Service Building (former steam cleaning operations), dry wells, Large Storage Building (solvent storage), and the VOC-impacted groundwater. Although not considered an REC in accordance with ASTM Standards, ACMs and LBP may be present in the on-site buildings.

Based on the information obtained during this assessment, Ardent has the following recommendations:

- Although the VOC-impacted groundwater is considered an REC in accordance with ASTM Standards, the site has been investigated and issued a NFA letter. However, the investigations were completed over 22 years ago and solvent uses have continued, and therefore, additional investigations should be completed to further assess whether impacted soil exists. In addition, since completing the investigations at the site, regulatory agencies have issued screening levels for VOCs in soil gas for the protection of human health through vapor intrusion. These screening levels have much lower concentrations than those used to assess whether a significant release has occurred (i.e. a threat to groundwater). Verizon was noted in agency files to generate hazardous wastes including chlorinated solvents. Based on the uncertainty of solvent uses in the Vehicle Service Building, former steam cleaning area and clarifiers, Large Storage Building, and Truck Wash Tunnel area (which would include the active Truck Wash Tunnel and associated clarifier, former cesspools, former septic tank, and active steaming pad), the recorded use of chlorinated solvents at the site, and due to the lower screening levels associated with human health risk criteria, Ardent recommends completing a soil gas survey in the area of possible solvent uses to assess whether a vapor intrusion issue is present.
- Soil sampling should be completed in the location of the former features of environmental concern that are not going to be used by Frontier during its lease. The former steam cleaning area and two former clarifiers in the Vehicle Service Building are inaccessible (currently being used as an office). Also, lithological conditions may not allow the advancement of deep soil borings (i.e. due to the presence of gravel and cobbles), and

therefore, investigation in the locations of the dry wells (also described as the circular steel plates beneath, and in close proximity to, the Large Storage Building) may be difficult. Dry wells are sometimes installed at depths of up to 30 feet deep. Based on this information, Ardent suggests using the soil gas survey described above as a screening technique in these areas. Soil borings should be attempted in the former hazardous waste storage area near the Truck Wash Tunnel and next to the former hydraulic lifts, where investigations would be limited to 15 feet bgs.

- Prior to Frontier vacating the property, all miscellaneous containers of waste, liquids or hazardous substances should be profiled and disposed. All regulatory permits should be closed. All features with possible environmental concerns that will continue to be used by Frontier during its lease should be removed at the end of its lease, including clarifiers, active hydraulic lifts, Truck Wash Tunnel, steam cleaning pad and floor drain, waste drum storage enclosure, ASTs, and hydraulic oil reservoirs. Following removal, confirmation samples should be collected. If regulated, the removal activities should be completed under the direction and oversight of the lead regulatory agency.
- Prior to demolition, a comprehensive asbestos and LBP survey should be completed. If present, these materials should be removed by a State-licensed abatement contractor.

1 INTRODUCTION

Ardent Environmental Group, Inc. (Ardent) was retained by Overton Moore Properties (OMP) and LaSalle Investment Management, Inc. (collectively referred to as "OMP/LIM") to perform a Phase I Environmental Site Assessment (ESA) of the property located at 5010 Azusa Canyon Road in the city of Irwindale, California (site; Figure 1). Work was completed in general accordance with the proposal dated January 13, 2017 between OMP and Ardent and the Master Agreement between LIM and Ardent, dated November 3, 2015. Frontier Communications Corporation (Frontier) currently owns the site. The site has historically been used by GTE, Verizon, and Frontier as a telecommunication maintenance yard. The telecommunication maintenance yard comprises five main buildings, referred to as the Office Building, Supply Building, Large Storage Building, Vehicle Service Building, and Truck Wash Tunnel, and numerous small outbuildings. OMP/LIM is considering purchasing the site as part of a portfolio of Frontier properties located throughout Southern California. Following acquisition, OMP/LIM is planning to lease the property back to Frontier for approximately two years, after which, the property will be redeveloped for commercial purposes. The following sections identify the purpose, the involved parties, the scope of work, and the limitations and exceptions associated with the Phase I ESA.

1.1 Purpose of Phase I ESA

In accordance with the American Society for Testing and Materials (ASTM) E 1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM Standard E 1527-13), the objective of the Phase I ESA was to identify, to the extent feasible pursuant to ASTM Standard E 1527-13, recognized environmental conditions (RECs), which are defined by ASTM as "…the presence or likely presence of any hazardous substance or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment."

The United States Environmental Protection Agency ("USEPA" or "EPA") has stated that ASTM Standard E 1527-13, is consistent with the Standards and Practices for All Appropriate Inquires (AAI), Final Rule (40 Code of Federal Regulations [CFR], Part 312) and is compliant with the statutory criteria for all appropriate inquires. All appropriate

inquires, as defined in the AAI Final Rule, must be conducted by persons seeking the landowner liability protections under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) prior to acquiring a property or seeking or receiving federal Brownfields grants under the authorities of CERCLA. The purpose of AAI, as defined in the AAI Final Rule, was to identify releases and threatened releases of hazardous substances which cause or threaten to cause the incurrence of response costs.

As part of this Phase I ESA, Ardent also assessed whether a vapor encroachment condition (VEC) exists at the site. The VEC assessment was completed following the ASTM E 2600-15 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (ASTM Standard E 2600-15). The objective of this work was to evaluate whether possible contaminants (e.g. VOCs) are present in soil and/or groundwater in the site vicinity which might pose a possible vapor intrusion risk into existing or future buildings at the site.

1.2 Involved Parties

Ms. Heidi Heggeness of Ardent conducted the historical research, site reconnaissance, regulatory inquiries, and document review. Mr. Paul Roberts, who meets the definition of an *environmental professional* as set forth in the AAI Final Rule, completed oversight and review.

1.3 Scope of Work

Ardent's scope of work for this Phase I ESA is consistent with ASTM Standard E1527-13 and E-2600-15, the LIM Phase I Environmental Assessment Minimum Investigation and Reporting Policy, and included the activities listed below.

- **Review of User Provided Information** – Review of information regarding title and judicial records for environmental liens or activity and use limitations, recorded environmental liens, actual or specialized knowledge or commonly known information regarding environmental conditions at the site, the relationship of the purchase price of the property to the fair market value, readily available maps, environmental reports, and other environmental documents pertaining to the site, as available and obtained from the user/client.
- **Records Review** – Acquisition and review of records, including federal, state, tribal, and local regulatory agency databases, for the site and for properties located within a specified radius of the site; local regulatory agency files for the site and selected nearby properties of potential environmental concern; physical setting sources, including topographic maps, geologic maps, and geologic and hydrogeologic reference documents; and historic land use information including aerial photographs, historical fire

insurance rate maps, building department records, and city directories, as necessary, that are reasonably ascertainable, publicly available, can be obtained within reasonable time and cost, and are practically reviewable.

- **Vapor Encroachment Condition (VEC)** – Review available regulatory and client provided data to assess Tier 1 non-numeric screening for the site. Ardent evaluated whether contaminants were present in soil and/or groundwater in the site vicinity which might pose a VEC at the site.
- **Site Reconnaissance** – Performance of a site reconnaissance to visually observe the site and any structure(s) located on the site to the extent not obstructed by bodies of water, adjacent buildings, or other obstacles. The purpose of the site reconnaissance is to obtain information indicating the likelihood of identifying RECs in connection with the site, including the general site setting, site usage, use and storage of hazardous materials and petroleum products, disposal of waste products and materials, sources of polychlorinated biphenyls (PCBs), and evidence of releases and possible risks of contamination from activities at adjacent properties.
- **Interviews** – Interviews with site representatives, including owners, occupants, and site managers, regarding the environmental condition of the site to the extent necessary and such persons are available. Interviews with state and/or local government officials as necessary.
- **Report** – Evaluation of the information and data obtained by the Phase I ESA process outlined above and preparation of this Phase I ESA report documenting findings and providing opinions and conclusions regarding possible environmental impacts and RECs at the site.

1.4 Limitations and Exceptions

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ardent should be contacted if the reader requires any additional information or has questions regarding the content, interpretations presented, or completeness of this document.

The findings, opinions, and conclusions are based on an analysis of the observed site conditions and the referenced literature. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the site or nearby properties. In addition, changes to the applicable laws, regulations, codes, and

standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ardent has no control. Ardent cannot warrant or guarantee that not finding indicators of any particular hazardous material means that this particular hazardous material or any other hazardous materials do not exist on the site. Additional research, including invasive testing, can reduce the uncertainty, but no techniques now commonly employed can eliminate the uncertainty altogether.

1.5 Special Terms and Conditions

As indicated in Section 13.1.5 of ASTM Standard E 1527-13, the following, which is not intended to be all inclusive, represents out-of-scope items with respect to a Phase I ESA: asbestos-containing materials (ACMs), radon, lead-based paint (LBP), lead in drinking water, wetlands, regulatory compliance, cultural and historic risk, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment, biological agents, and mold. As part of our agreement with the client, Ardent visually assessed site buildings (if present) for possible ACMs, LBP, and mold. In addition, ASTM Standard E 2600-15 supplements the ASTM Standard E 1527-13 to include evaluation of VEC using Tier 1 screening.

This study did not include an evaluation of geotechnical conditions or potential geologic hazards. In addition, Ardent did not address interpretations of zoning regulations, building code requirements, or property title issues.

1.6 User Reliance

This report may be relied upon and is intended exclusively for use by OMP and LIM. Any use or reuse of the findings, opinions, and/or conclusions of this report by parties other than the foregoing parties is undertaken at said parties' sole risk.

1.7 Physical Limitations

No physical limitations were encountered during the completion of this Phase I ESA report.

1.8 Data Gaps

No significant data gaps were noted during the preparation of this Phase I ESA report.

2 GENERAL SITE CHARACTERISTICS

The following sections describe the location and the current uses of the site and adjacent properties. A site location map is presented as Figure 1, a site vicinity map is presented as Figure 2, and a site plan is presented as Figure 3. Selected photographs of the site and surrounding properties are provided in Appendix A.

2.1 Location and Legal Description

The site is located on the northeast corner of the intersection of Nubia Street and Azusa Canyon Road in the city of Irwindale, county of Los Angeles, California (Figure 1). The site has been assigned the address 5010 Azusa Canyon Road and the Los Angeles County Tax Assessor's Parcel Numbers (APNs) 8417-025-8001, 8417-025-801, 8417-026-800, and 8417-026-801. The legal description of the site is provided on the Preliminary Title Report, included in Appendix B.

The site is bounded as shown on Figure 2. The site boundary information was obtained during the site reconnaissance and information provided by the client.

2.2 Site Description and Current Site Uses/Operations

The following paragraphs present a description of the site, the activities being conducted on-site, the heating and cooling systems utilized in the site building, the sewage disposal system, and the potable water provider for the site, if any.

2.2.1 Site Description

The site is an irregular-shaped property that comprises approximately 10.52-acres. The site is developed with a number of buildings such as the Office Building, Supply Building, Large Storage Building, Vehicle Service Building, and Truck Wash Tunnel, and numerous small outbuildings (Figure 3).

2.2.2 Occupants

The site was occupied by Frontier which uses the site as a telecommunication maintenance yard.

2.2.3 Heating and Cooling Systems

General heating or cooling systems for the on-site building use electricity and natural gas obtained from local utility providers.

2.2.4 Sewage Disposal/Septic Systems

On-site sewage disposal, such as septic tanks or leach fields, were not observed at the site, although historical use, including septic tanks, a cesspool, and dry well were reported for the site. The site is currently connected to the municipal sewer system.

2.2.5 Potable Water

Potable water is supplied by the local water purveyor.

2.3 Adjacent Properties

In general, the site vicinity consists of industrial, commercial, and residential properties (Figure 2). The site is bound to the north, east, and south by commercial and industrial properties and to the west, beyond Azusa Canyon Road, by residential. Immediately north and west of the site are multi-tenant industrial buildings, followed by warehouse and distribution facilities. Commercial properties, such as AAG Ice Cream and Malcom Drilling are located south of the site.

No above ground storage tanks (ASTs), evidence of underground storage tanks (USTs), or large quantities of possible hazardous materials or wastes were noted being stored by off-site facilities along the site property line. In general, these adjacent properties would not be considered an environmental concern to the site.

3 USER PROVIDED INFORMATION

The following sections summarize information provided by the user to assist the environmental professional in identifying the possibility of RECs in connection with the site, and to fulfill the user's responsibilities in accordance with Section 6 of ASTM Standard E 1527-13. A copy of the user questionnaire is presented in Appendix B. The questionnaire was completed by Mr. Jason Hines of OMP.

3.1 Current Title Information

A Preliminary Title Report provided by OMP/LIM was reviewed by Ardent. The title report was prepared by First American Title Insurance Company National Commercial Services dated January 4, 2017. According to the Preliminary Title Report, the current owner of the site is "GTE California Incorporated, a corporation which acquired title and formerly known as General Telephone Company of California." A copy of the Preliminary Title Report is included in Appendix B.

3.2 Environmental Liens or Activity and Use Limitations

Information regarding environmental liens or activity and use limitations (AULs) was not provided to Ardent. Mr. Hines was not aware of any environmental liens or AULs against the site that are filed or recorded under federal, state, or local law. No environmental liens or AULs were noted in the preliminary title report.

3.3 Specialized Knowledge

Mr. Hines indicated that, for purposes of this assessment, the client has no specialized knowledge or experience pertaining to the site or the adjacent properties that are material to RECs in connection with the site.

3.4 Commonly Known or Reasonably Ascertainable Information

Mr. Hines is not aware of commonly known or reasonably ascertainable information pertaining to the site.

3.5 Valuation Reduction for Environmental Issues

In a transaction involving the purchase of a parcel of commercial real estate, the user shall consider the relationship of the purchase price of the property to fair market value of the property if the property was not affected by hazardous substances or petroleum products. Mr. Hines indicated that the purchase price reflects fair market value.

3.6 Reason for Performing Phase I ESA

Ardent was retained by OMP/LIM to perform the Phase I ESA as part of its real estate due diligence activities for acquisition of the site.

3.7 Other User Provided Information

As part of this investigation, Ardent was provided a previous Phase I ESA prepared by ATC Group Services LLC (ATC) dated December 12, 2016 (referred to herein as the "ATC Phase I ESA"). The ATC Phase I ESA was recently completed for Frontier in preparation to sell the property. This report was very comprehensive and contained a number of additional reports regarding UST closure and other investigations. Ardent reviewed the ATC Phase I ESA and the attached environmental documents and compared laboratory results of previous investigations with current regulatory guidelines. The following presents a summary of the information reviewed. Detailed information and copies of previous reports are presented in Appendix C.

3.7.1 Historical Land Use

The current telecommunication maintenance yard comprises five main buildings, referred to as the Office Building, Supply Building, Large Storage Building, Vehicle Service Building, and Truck Wash Tunnel, and numerous small outbuildings.

From at least 1928 through 1952, the site was used for agricultural purposes and residences. In approximately 1957, the site began to be used as a telecommunication maintenance yard. The Vehicle Service Building was constructed in 1957. In 1964, a large office building was located in the southwestern portion of the site and oriented in an east-west direction. By 1966, the historical office building was replaced with the existing Office Building, Supply Building, Large Storage Building, and Truck Wash Tunnel. Since the site has been developed occupants included GTE, Verizon and Frontier and utilized as a telecommunication maintenance yard.

3.7.2 Underground Storage Tanks

As part of the maintenance activities, fueling and maintenance of fleet vehicles included the use of underground storage tanks (USTs). Throughout the years, these tanks were removed and replaced with aboveground storage tanks (ASTs). The on-site USTs included one 10,000-gallon diesel UST associated with the southern dispenser which was removed in 1988, a 12,000-gallon gasoline UST associated with the northern dispenser which was removed in 1996, a 10,000-gallon gasoline UST which replaced the 12,000-gallon UST and was removed in 2009, and a 1,000-

gallon waste oil UST located immediately south of the Vehicle Service Building which was removed in 1996. It should be noted that a fifth UST may have been located in the same general area as the tank associated with the southern dispenser island. A building permit dated 1957 was noted for a "gas pump canopy." At this time, only the southern dispenser was noted on-site. It is assumed this tank was replaced with the 10,000-galon UST discussed above, which was ultimately removed. The four USTs were removed under the direction and oversight of the Los Angeles County Department of Public Works (LACDPW), and impacted soils were remediated by excavation. Laboratory results of confirmation samples showed no detectable to low concentrations of residual contaminants. Based on these results, NFA letters were issued by the LACDPW. Ardent has reviewed these data and concur with the regulatory agency that no further work is necessary. Based on these results, these former environmental issues would no longer be considered an environmental concern to the site. According to American Society for Testing and Materials (ASTM) Standards, these former features would be considered a historical recognized environmental condition (HREC).

Three 120-gallon underground hydraulic fluid reservoirs were located immediately south of the Vehicle Service Building. See Section 6.0 for further discussion.

3.7.3 Other Possible Environmental Concerns

A former steam cleaning area was also located in the mid-central portion of the Vehicle Service Building. The former steam cleaning area was reportedly connected to two clarifiers. The clarifiers were reportedly "removed" or "abandoned," it was not clarified which occurred. The area has since been remodeled to include an office area. Steam cleaning activities typically use solvents as degreaser agents. One soil gas point was placed in the vicinity of the clarifiers in 1991 as part of the WIP investigations. Laboratory results indicated no detectable concentrations of VOCs and low concentrations of petroleum hydrocarbons (10 milligrams per kilogram [mg/kg]) in soil and total VOC concentrations of 4.85 to 8.94 micrograms per liter (ug/l), a breakdown per constituent was not provided. Although these laboratory results are relatively low, it is our judgement that the clarifiers and former steam cleaning area were not adequately assessed. Based on this information, these

features would be considered an environmental concern to the site and may pose a possible vapor intrusion issue. Based on the age of the buildings (1957, 1964, and 1966), asbestos containing building materials (ACMs) and lead-based paint (LBP) may be present.

4 PHYSICAL SETTING

The following sections include discussions of topographic, geologic, and hydrogeologic conditions in the vicinity of the site, based upon our document review and our visual reconnaissance of the site and adjacent areas.

4.1 Site Topography

Based on the review of the United States Geological Survey (USGS) 7.5 Minute Series, Baldwin Park, California, Topographic Quadrangle Map dated 2012, the site has an elevation of approximately 449 feet above mean sea level (msl) and slopes to the southwest.

4.2 Geology

The site is located in the northern area of the Peninsular Ranges geomorphic province. The active Sierra Madre Fault which separates the Peninsular Range from the Transverse Range is located approximately 2 miles north of the site. According to the 2010 Geologic map of California the underlying geology of the site consists of older Quaternary alluvium associated with lake, playa and terrace deposits. This alluvium consists of a pebble to boulder gravel with a course grained sand matrix. Irwindale is a rock quarry area; therefore soil lithology is mostly sand, gravel, and large cobbles.

4.3 Oil and Gas Maps

Based on a review of the Division of Oil, Gas, and Geothermal Resources (DOGGR) on-line well finder, the site does not lie within an active oil field and no oil or natural gas wells have been drilled on the site or within the site vicinity.

4.4 Site Hydrology

The following sections discuss the site hydrology in terms of both surface waters and groundwater.

4.4.1 Surface Waters

No natural surface water bodies, including ponds, streams, or other bodies of water, are present on the site. The Santa Fe Damn, an earthen dam, is located approximately 0.90-mile northwest of the site.

4.4.2 Groundwater

Groundwater has been measured in the site vicinity at depths of approximately 250 feet below the ground surface (bgs) and flows in a southwesterly direction. The site is located within the San Gabriel Valley Groundwater Basin. Portions of the San Gabriel Valley Groundwater Basin have been listed on the National Priority List (NPL), or Superfund Site. The site is located within the Baldwin Park Operable Unit of the San Gabriel Valley Groundwater Basin which has been impacted with VOCs, namely the chlorinated solvents trichloroethene (TCE) and tetrachloroethylene (PCE), which were historically used by the commercial and industrial facilities located in this area. Based on our review of groundwater plume maps provided by the United States Environmental Protection Agency (EPA or USEPA), the site is located within a VOC plume and groundwater beneath the site has been impacted with chlorinated solvents. On behalf of the EPA, the Regional Water Quality Control Board, Los Angeles Region (RWQCB) has investigated the site as part of their Well Investigation Program (WIP). Two investigations were completed at the site which indicated concentrations of VOCs in soil gas, including chlorinated solvents. These concentrations did not identify a significant release source that would pose a threat to groundwater. Based on these results, a no further action (NFA) letter was issued dated September 3, 1992, following the initial investigation, and an additional investigation completed in 1995 resulted in another NFA letter dated June 5, 1998. The regional VOC-impacted groundwater would be considered a recognized environmental condition (REC). Issuance of the NFA letter indicates that the site operations have not contributed to the regional groundwater contamination, and therefore, the site owner would not be considered a Responsible Party.

5 HISTORICAL LAND USE

Ardent conducted a historical land use record search for both the site and surrounding areas. This included a review of one or more of the following sources that were found to be both reasonably

ascertainable and useful for the purposes of this Phase I ESA: historical aerial photographs, historical fire insurance maps, historical city directories, building permits and plans, topographic maps, property tax records, zoning/land use records, and a review of prior environmental assessment reports regarding the site. Ardent used some of the historical land use information provided in the ATC Phase I ESA to summarize the following sections. A copy of this document is provided in Appendix C.

5.1 Summary of Historical Land Use of the Property

From at least 1928 through 1952, the site was used for agricultural purposes and residences. In approximately 1957, the site began use as a telecommunication maintenance yard. The Vehicle Service Building was constructed in 1957. In 1964, a large office building was located in the southwestern portion of the site and oriented in an east-west direction. By 1966, the historical office building was replaced with the existing Office Building, Supply Building, Larger Storage Building, and Truck Wash Tunnel.

5.2 Summary of Historical Land Use of Adjoining Properties

The site vicinity was used for residential and agricultural purposes from at least 1928 through 1952. By 1964, an increase in commercial buildings were noted in the site vicinity. From at least 1928 through 1983, the large property located immediately east of the site was used as a sand and gravel quarry. By 1990, the quarry had been filled.

5.3 Fire Insurance Rate Maps

Historical Sanborn Fire Insurance Rate Maps (Sanborn maps) were requested from Environmental Data Resources Inc. (EDR) of Shelton, Connecticut. According to EDR, no Sanborn maps were available for the site or the site vicinity.

5.4 Historical Aerial Photographs

Historical aerial photographs for selected years between 1928 and 2012 were provided by EDR in ATC's Phase I ESA. The following presents a summary of our review.

- **1928, 1938, 1948, and 1952** – The site was used for residential and agricultural purposes. A large sand and gravel quarry was located immediately east of the site. An increase in residential use was located west and south of the site in 1952. Azusa Canyon Road was noted west of the site.

- **1964** – The site was used as a telecommunication maintenance yard. A large office building was noted in the southwestern portion of the site, orientated in an east-west direction. An increase of commercial use was noted south of the site.
- **1977** – The large office building located in the southwestern portion of the site had been razed and replaced with the current buildings. An increase in commercial activity was noted in the site vicinity.
- **1979, 1981, 1983, 1990, 1994, 2002, 2005, 2009, 2010, and 2012** – The site showed little change from the 1977 photograph. The larger quarry had been filled in by 1990 and by 2002, this eastern property had been developed with large warehouse/distribution buildings.

5.5 Building Department

The City of Irwindale Building Department (IBD) maintains building permits for the site. As presented in the ATC Phase I ESA, building permits dated 1957 were issued for a 24,500-square foot office and warehouse and septic system, vehicle service building, truck scale pit, gas pump canopy, and a small tool shed. In 1966, permits were noted for the demolition of the office building and warehouse, and to abandon its septic system. In 1967, a number of permits were noted in the file including a permit to install a UST (the location was not provided), a permit to construct the Truck Wash Tunnel and connect the system to the municipal sewer, and a permit to connect the vehicle Service Building to the municipal sewer.

In 1992, a permit was issued to remove and replace the clarifier in the Truck Wash Tunnel area. In 1996, a permit was issued to construct a fueling system, including the north canopy and 12,000-gallon UST, and to install the existing duel compartment 500-gallon AST used to store virgin and waste oils.

5.6 City Directories

City directories were obtained from EDR for the site and immediate site vicinity. Selected city directories between the years 1920 through 2013 were reviewed. The site was designated as “Verizon California” in the 2008 city directories. No other listings for the site address were noted. The properties in the site vicinity were mainly listed as residences from the 1950s.

5.7 Historical Topographic Maps

Historical topographic maps for the site were provided by EDR for review. The maps provided for the site were dated 1894, 1897, 1898, 1904, 1925, 1927, 1928, 1933, 1939,

1953, 1966, 1972, 1981, and 2012. The maps indicate the site consisted of vacant land from at least 1984 through 1953. By 1966, the site was being used as the telecommunication maintenance yard. The site vicinity was also vacant from 1984 through 1933. In 1939, the beginning of the sand and gravel pit located immediately east of the site was shown.

5.8 Interviews

Interviews were conducted by Ardent with key site personnel (e.g., past and present owners, operators, and/or occupants) with the objective of obtaining information indicating RECs in connection with the site. The following are the site personnel interviewed for purposes of this assessment.

5.8.1 Interview with Owner

Mr. Mark Norton, Building Services Specialist with Frontier, was interviewed during the site visit. Findings of this interview are presented throughout the report.

5.8.2 Interview with Site Manager

No Site Manager was available to interview.

5.8.3 Interviews with Occupant

As noted above, Ardent met with Mr. Norton with Frontier. Findings of this interview are presented throughout the report.

5.8.4 Interviews with Local Government Officials

Representatives of local regulatory agencies were interviewed during completion of this report. The information obtained is presented throughout this report.

5.8.5 Interviews with Others

No other interviews were conducted during this Phase I ESA.

5.9 Previous Reports and Documents

Previous environmental investigations at the site are discussed in Section 3.7.

6 SITE RECONNAISSANCE

The site and site vicinity reconnaissance was performed by Ardent on January 30, 2017. The site reconnaissance involved a walking tour of the site and visual observations of adjoining properties. At the time of the site reconnaissance, the weather was sunny, and there were no weather-related obstructions at the site. Selected photographs taken during these activities are included in Appendix A.

At the time of the site reconnaissance, the site was occupied by Frontier and used as a telecommunication maintenance yard. The telecommunication maintenance yard comprises five main buildings, referred to as the Office Building utilized for offices, Supply Building utilized for equipment storage and offices, Large Storage Building utilized for storage, Vehicle Service Building utilized for maintenance of fleet vehicles, and Truck Wash Tunnel utilized for fleet vehicle washing purposes (Figure 3A). There are numerous small outbuildings throughout the property utilized for storage of various new and used telecommunication equipment. No fueling systems were noted.

During the site reconnaissance, Ardent observed numerous features in the northwest corner of the site including:

- Steam cleaning pad and floor drain
- Drum and compressor storage area
- Dual tank AST containing new and used oil
- Waste/drum storage enclosure
- A pump and reported soap chambers associated with the Car Wash Tunnel
- Compressor enclosure
- Circular access plate
- Two reported sample boxes for the truck wash or former steam clean area
- Clarifier
- Three reported vapor wells

These features are located immediately west of the Vehicle Service Building and discussed in greater detail throughout this report (Figure 3B).

During the site reconnaissance, Ardent was provided access to the Vehicle Service Building. The Vehicle Service Building included offices, various storage areas, a former boiler room, and a shop area utilized for maintenance of fleet vehicles (Figure 3C). The shop area included an alignment rack, evidence of four former hydraulic lifts, three active underground hydraulic lifts and two aboveground lifts (Figure 3C). These features are further discussed throughout this report.

Three 120-gallon underground hydraulic fluid reservoirs were located immediately south of the Vehicle Service Building. Although representatives of Frontier did not know what these features were used for, it is our assumption, based on their location, that the reservoirs were used to store hydraulic oil for the hydraulic lifts. Hydraulic oil is now supplied to the lifts by two ASTs. The reservoirs have not been previously investigated, and therefore, would be considered an environmental concern to the site.

6.1 Use and Storage of Hazardous Substances and Petroleum Products

One 55-gallon metal drum of engine oil, one 55-gallon metal drum of antifreeze, and two 5-gallon plastic containers of gear lubricant, were stored on a secondary containment system in the shop area of the Vehicle Service Building (Figure 3C). One 120-pound metal drum of motor grease and one 55-gallon metal drum of motor oil were stored on a secondary containment system located in the drum and compressor storage area immediately west of the Vehicle Service Building (Figure 3B). No staining or evidence of leaks were noted in these areas. Based on the lack of surficial staining, evidence of a release, and/or type of materials being stored, there is a low likelihood that a significant release has occurred and these features would not be considered an environmental concern to the site.

Numerous 1-gallon plastic containers containing chemicals including “ND-165”, a biodegradable degreasing solvent, “Chemstrip”, a heavy-duty paint stripper containing methylene chloride (a chlorinated solvent), and “Dichloron L.O.”, an insecticide, were noted in the northeast portion of the Large Storage Building (Figure 3A). Approximately three 5-gallon plastic containers of a scaling and corrosion inhibitor solution containing sulfuric acid and one “Virginia No. 10”, a degreasing solvent containing petroleum distillates and chlorinated hydrocarbons (a chlorinated solvent) were also stored in the northeast portion of the Large Storage Building (Figure 3A). Frontier representatives indicated the chemicals stored in this area were no longer used on the site and were in the process of disposing of the chemicals in accordance with Frontier’s environmental policy. No staining or evidence of leaks were noted in the Large Storage Building; however chlorinated solvents are highly toxic carcinogens and are heavily regulated by regulatory agencies. Based on the types of materials (chlorinated solvents) being stored, the Large Storage Building would be considered an environmental concern to the site.

6.2 Storage and Disposal of Hazardous Wastes

Approximately one 55-gallon drum of waste oil, one 55-gallon drum of used oil filters, one 55-gallon drum of used fuel and diesel filters, two 55-gallon drums of universal waste, two 55-gallon drums of solid oily debris, one 55-gallon drum of "ArmaKleen" cleaning solution (connected to a parts washer), one 55-gallon drum of used antifreeze, and three approximately 40-gallon drums of gear lubricant were located throughout the shop area of the Vehicle Service Building (Figure 3C). Based on the lack of surficial staining, evidence of a release, and/or type of materials being stored, there is a low likelihood that a significant release has occurred and these features would not be considered an environmental concern to the site.

6.3 Unidentified Substance Containers

Two unlabeled 55-gallon metal drums containing unknown material were stored on a secondary containment system in the drum and compressor storage area (Figure 3B). One unlabeled 55-gallon plastic drum was located immediately north of the Truck Wash Tunnel and in close proximity to the soap chambers (Figure 3B). Frontier representatives did not know the contents inside the unlabeled drums. No staining or evidence of leaks were noted in these areas. Based on the lack of staining, evidence of leaks, and/or utilization of secondary containment these features would not be considered an environmental concern to the site.

No other unidentified substance containers were observed site during the site reconnaissance.

6.4 Aboveground Storage Tanks (ASTs) and Underground Storage Tanks (USTs)

One dual compartment AST containing two approximately 250-gallon new and waste oil tanks were located immediately west of the former steam cleaning area (Figure 3B). No staining or evidence of leaks were noted. Two approximately 60-gallon hydraulic oil ASTs associated with the existing hydraulic lifts were noted on the west side of the Vehicle Service Building (Figure 3C). No staining or evidence of leaks were noted. Based on the lack of staining these features would not be considered an environmental concern to the site.

As previously discussed, three underground hydraulic fluid reservoirs were located south of the Vehicle Service Building (Figure 3C). Frontier representatives did not know what these features were used for and whether or not they contained material. Based on this information, these features would be considered an environmental concern to the site.

6.5 Evidence of Releases

Evidence of chemical releases on the site, such as odors, stressed vegetation, stains, leaks, pools of liquid, and spills, was not observed during the site reconnaissance.

6.6 Polychlorinated Biphenyls (PCBs)

Historically, PCBs (a group of hazardous substances and suspected human carcinogens) were widely used as an additive in cooling oils for electrical components. Typical sources of PCBs can include electrical transformers. A pole-mounted electrical transformer was noted in the southwest corner of the site (Figure 3A). No staining or evidence of a release were noted; therefore, this transformer does not represent a significant environmental concern to the site.

6.7 Suspect Asbestos-Containing Building Materials (ACM)

The manufacture of most ACM was phased out in the 1970s, ending in 1980. Previously manufactured ACM that were in stock continued to be used through approximately 1981. Some non-friable ACM are still manufactured. In general, buildings constructed after 1981 have a negligible potential to contain friable ACM and a low potential for most non-friable ACM. Based on the age of the site buildings (1957, 1964, and 1966), ACMs may be present.

6.8 Lead Based Paint (LBP)

The manufacture of LBP was phased out in approximately 1978. Based on the age of the site buildings (1957, 1964, and 1966), LBP may be present.

6.9 Indications of Water Damage or Mold Growth

No visual indications of water damage or visible mold growth were noted.

6.10 Wastewater Systems

One clarifier was noted in the northwest portion of the property and is associated with the Truck Wash Tunnel. As previously discussed, two clarifiers associated with a former steam clean area were located within the Vehicle Service Building (Figure 3C). See Section 3.7.3. for further detail. Based on the observed storage and reported use of chlorinated solvents at the site these existing and former features would be considered an environmental concern to the site.

6.11 Stormwater Systems

Stormwater drains were located throughout the site parking and driveway areas.

6.12 Wells

Three reported soil vapor monitoring wells were located within and/or northeast of the existing clarifier (Figure 3B). During the site reconnaissance, Ardent was able to access the two soil vapor monitoring well boxes northeast of the clarifier. Each of the well boxes contained two soil vapor points installed at depths of 10- and 20-feet bgs and were constructed with 0.25-inch Nylaflow tubing. These features are sealed and contained within permanent well boxes and therefore would not be considered an environmental concern to the site.

6.13 Other Subsurface Structures

A circular access plate was located northeast of the existing clarifier (Figure 3B). During the site reconnaissance, Ardent was able to open the circular access plate and noted electrical wiring. Frontier representatives did not know what the electrical wiring was associated with. Based on the contents of the access plate, this feature would not be considered an environmental concern to the site.

Ardent observed two approximately 4-foot diameter circular steel plates on the eastern portion of the property (Figure 3A). One of the circular steel plates, located underneath the southwest corner of the Large Storage Building, was partially exposed and appeared to have been paved over. Ardent assumes this feature is associated with the approximate location of the dry well identified in ATC's Phase I ESA (Figure 3A). An additional circular steel plate was located approximately 40-feet southwest of the Large Storage Building. Frontier representatives did not know what the steel plates were associated with; however,

based on our professional opinion this feature could be an additional dry well. Based on the observed storage and reported uses of chlorinated solvents at the site these features would be considered an environmental concern to the site.

No other subsurface structures were noted.

6.14 Other Issues

No other on- or off-site issues of environmental concern were noted.

7 ENVIRONMENTAL DATABASE SEARCH

A computerized environmental information database search was performed by EDR for this Phase I ESA on January 19, 2017. The database search included federal, state, local, and tribal databases. A summary of the environmental databases searched, their corresponding search radii, and number of noted facilities of environmental concern is presented in Appendix E. In addition, a description of the assumptions and approach to the database search is also provided in Appendix E. The review was conducted to evaluate whether the site or properties within the vicinity of the site have been reported as having experienced significant unauthorized releases of hazardous substances or other events with potentially adverse environmental effects.

Two unmapped properties, due to poor or inadequate address information, were identified in the database report. Based on the location and/or database, these listings do not represent a significant environmental concern to the site.

The following paragraphs describe the databases that contain noted properties of environmental concern, and include a discussion of the regulatory status of the facilities and potential environmental impact to the subject site.

7.1 Federal National Priorities List (NPL): Distance Searched – 1 mile

The NPL is the USEPA's database of uncontrolled or abandoned hazardous waste properties identified for priority remedial actions under the Superfund program. This database includes proposed NPL listings.

The site is located within the San Gabriel Valley Groundwater Basin. Portions of the San Gabriel Valley Groundwater Basin have been listed on the National Priority List (NPL), or

Superfund Site. The site is located within the Baldwin Park Operable Unit of the San Gabriel Valley Groundwater Basin which has been impacted with VOCs, namely the chlorinated solvents trichloroethene (TCE) and tetrachloroethylene (PCE), which were historically used by the commercial and industrial facilities located in this area. Based on our review of groundwater plume maps provided by the United States Environmental Protection Agency (EPA or USEPA), the site is located within a VOC plume and groundwater beneath the site has been impacted with chlorinated solvents. On behalf of the EPA, the Regional Water Quality Control Board, Los Angeles Region (RWQCB) has investigated the site as part of their Well Investigation Program (WIP). Two investigations were completed at the site which indicated relatively low concentrations of VOCs, including chlorinated solvents. An initial soil and soil gas survey completed in 1991 resulted in a no further action (NFA) letter dated September 3, 1992, and an additional investigation completed in 1995 resulted in another NFA letter dated June 5, 1998. The regional VOC-impacted groundwater would be considered a REC. Issuance of the NFA letter indicates that the site operations have not contributed to the regional groundwater contamination, and therefore, the site owner would not be considered a Responsible Party.

Although the VOC-impacted groundwater is considered an REC in accordance with ASTM Standards, the site has been investigated and issued a NFA letter. However, the investigations were completed over 22 years ago and solvent uses have continued, and therefore, additional investigations should be completed to further assess whether impacted soil exists.

7.2 Federal Delisted NPL: Distance Searched – 0.5 mile

This database contains delisted NPL properties under the Superfund program. The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the USEPA uses to delete properties from the NPL. In accordance with 40 Code of Federal Regulations (CFR) 300.425. (e), properties may be deleted from the NPL where no further response is appropriate.

Neither the site nor properties within a 0.5-mile radius were listed on this database.

7.3 Federal Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) List: Distance Searched – 0.5 mile

The CERCLIS database has been replaced by the Superfund Enterprise Management System (SEMS) database, which tracks hazardous waste sites and remedial activities performed in support of the EPA's Superfund Program. This database also includes properties listed on the SEMS-ARCHIVE database for facilities with statuses of No Further Remedial Action Planned (NFRAP).

The site was not listed on this database. The San Gabriel Valley Groundwater Basin, Baldwin Park Operable Unit, is listed on the SEMS database, and is further discussed above. As noted in Section 7.1, the VOC-impacted groundwater associated with the Baldwin Park Operable Unit would be considered an REC.

Specially Organics located approximately 0.38-mile northeast of and potentially upgradient from the site, was listed on the SEMS-ARCHIVE database with a NFA designation. Based on the distance, depth to groundwater, and regulatory status, this listing would not be considered an environmental concern to the site.

7.4 Federal Corrective Action Report (CORRACTS): Distance Searched – 1 mile

The USEPA maintains this database of Resource Conservation and Recovery Act (RCRA) facilities that are undergoing corrective action. A corrective action order is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility.

The site was not listed. One property was listed within the search radius. Norac Pharmaceutical is located approximately 1-mile north to northeast of the site and potentially cross- to upgradient. Based on the distance and depth to groundwater, this facility would not be considered a significant environmental concern to the site.

7.5 Federal Resource Conservation and Recovery Act (RCRA) Treatment, Storage, and Disposal (TSD) Facilities List: Distance Searched – 0.5 mile

The RCRA TSD database (non-CORRACTS) is a compilation by the EPA of facilities that report generation, storage, transportation, treatment, or disposal of hazardous waste.

Neither the site nor properties within a 0.5-mile radius were listed on this database.

7.6 Federal RCRA Generators List: Distance Searched – Site and Adjoining Properties

This list identifies sites that generate hazardous waste as defined by RCRA. Inclusion on this list is for permitting purposes and is not indicative of a release.

Frontier was listed in 2016 as a small quantity generator of hazardous waste, including ignitable wastes. In 2000, Verizon was also listed as a small quantity generator. Verizon's wastes included ignitable, corrosive, and reactive wastes, benzene, tetrachloroethylene (PCE), and halogenated solvents including PCE, methylene chloride, trichloroethene (TCE), 1,1,1-TCA, Freon 11,and Freon 13. No violations were noted.

From 1997 through 2004, Malcolm Drilling, located immediately south of the site, was listed as a small quantity generator of hazardous wastes. In 1992, a former occupant of this property, referred to as CMZ Trucking Company, was also listed as a small quantity generator. No violations were noted.

7.7 Federal Institutional Control/Engineering Control Registries: Distance Searched – Site

These lists identify properties with engineering and/or institutional controls. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or affect human health. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on the site. Deed restrictions are generally required as part of the institutional controls.

The site was not listed on this database.

7.8 Federal Emergency Response Notification System (ERNS) List: Distance Searched – Site

The ERNS database, maintained by the USEPA, contains information on reported releases of oil and hazardous substances.

The site was not listed on this database.

7.9 Federal Brownfield List: Distance Searched – 0.5 mile

The USEPA Brownfield database, entitled Targeted Brownfield's Assessments (TBA), lists properties for which the USEPA is providing funding and/or technical support for environmental assessments and investigations. The objective of the TBA is to promote cleanup and redevelopment of undesirable properties with environmental issues.

The site was not listed on this database. The San Gabriel Valley Groundwater Basin was listed. Groundwater obtained from aquifers is treated at the well heads by purveyors of drinking water.

7.10 State Calsites Database (Calsites) or State-Equivalent CERCLIS: Distance Searched – 1 mile

The Calsites database, also known as the State-equivalent CERCLIS, is maintained by the Cal-EPA DTSC. This database contains information on AWP and both known and potentially contaminated properties. Two-thirds of these properties have been classified, based on available information, as needing no further action (NFA) by the DTSC. The remaining properties are in various stages of review and remediation to determine if a problem exists. These properties are presented by EDR on the EnviroStor database.

The site is not listed. Six active facilities located within the search radius were listed. Four facilities located greater than 0.65-miles of and potentially upgradient from the site were listed. Based on the distance and depth to groundwater, these facilities would not be considered a direct environmental concern to the site. As noted above, groundwater beneath the site is impacted with VOCs from surrounding industrial use.

The two remaining facilities are located greater than approximately 0.75-mile south and southeast of and potentially crossgradient from the site. Based on the distance, direction, and depth to groundwater, these facilities would not be considered an environmental concern to the site.

7.11 State Solid Waste Landfill Sites (SWLF): Distance Searched – 0.5 mile

The SWLF database consists of open and closed solid waste disposal facilities and transfer stations. The data comes from the Integrated Waste Management Board's Solid Waste

Information System (SWIS) and the State Water Resources Control Board (SWRCB) Waste Management Unit Database (WMUD) database.

Neither the site nor properties within a 0.5-mile radius were listed on this database.

7.12 State Leaking Underground Storage Tank (LUST) Lists: Distance Searched – 0.5 mile

The LUST information system is obtained from by the SWRCB and the Regional Water Quality Control Board (RWQCB).

The site was listed on this database as GTE from 1993 through 2012. As noted above, the on-site USTs included one 10,000-gallon diesel UST associated with the southern dispenser which was removed in 1988, a 12,000-gallon gasoline UST associated with the northern dispenser which was removed in 1996, a 10,000-gallon gasoline UST which replaced the 12,000-gallon UST and was removed in 2009, and a 1,000-gallon waste oil UST located immediately south of the Vehicle Service Building which was removed in 1996. The USTs were all removed under the direction and oversight of the Los Angeles County Department of Public Works (LACDPW) and received NFA letters due to the no detectable to low concentrations of residual contaminants in confirmation samples. Based on these results, these features would not be considered an environmental concern to the site.

Six facilities are located in the site vicinity, five of which are located greater than 0.2-mile of and cross- to downgradient from the site, and/or considered close cases with the lead regulatory agency. The remaining facility is located approximately 0.36-mile northeast of and upgradient from the site. This facility is considered a closed case. Based on the distance, direction, depth to groundwater, and/or regulatory status, these facilities would not be considered an environmental concern to the site.

7.13 State Spills, Leaks, Investigations, and Cleanups (SLIC) List: Distance Searched – 0.5 mile

The SLIC information system is obtained from by the SWRCB and the Regional Water Quality Control Board (RWQCB). Although not required for reporting by ASTM standards, this database provides pertinent information regarding environmental concerns at the site and facilities in the site vicinity.

The site was not listed. Four facilities were listed, two of which are located greater than approximately 0.2-mile of and crossgradient from the site. The remaining two are located greater than approximately 0.4-mile of and potentially upgradient from the site. Both of these facilities are listed as open, inactive cases. These facilities have impacted groundwater with VOCs. Based on the distance and depth to groundwater, these facilities would not be considered a direct environmental concern to the site. As noted above, groundwater beneath the site is impacted with VOCs from surrounding industrial use.

7.14 State Underground Storage Tank (UST) and Aboveground Storage Tank (AST) Registration List: Distance Searched – Site and Adjoining Properties

UST and AST databases are provided by the SWRCB. Inclusion on these lists is for permitting purposes and is not indicative of a release.

The site was listed on the UST database for historical UST. As noted herein, no current USTs are present at the site. Malcolm Drilling Company, located immediately south of the site, is listed as having a UST. Listing on this database reports a permitted activity and is not indicative of a release.

7.15 State Voluntary Cleanup Programs (VCPs): Distance Searched – 0.5 mile

The State VCP database lists low threat level properties with either confirmed or unconfirmed releases. Project proponents have requested that the DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Neither the site nor properties within a 0.5-mile radius were listed on this database.

7.16 Indian Reservations: Distance Searched – 1 mile

This list depicts Indian administered lands of the United States that have an area equal to or greater than 640-acres. No Indian Reservations were listed within a 1-mile radius from the site. Due to the lack of Indian Reservations within 1-mile of the site, other tribal database listings required by ASTM and AAI were deemed not applicable. These listings would include tribal-equivalent NPL, CERCLIS, Landfill and/or Solid Waste Disposal, LUST, UST and AST Registrations, Institutional Control/Engineering Control Registries, VCPs, and Brownfields.

7.17 Other Non-ASTM and AAI Database: Distance Searched – Site

Other databases were included in the EDR report, but are not required by ASTM or AAI. Based on our review, the site was listed on FINDS and Los Angeles County HMS for permitting purposes. The site was not listed on other databases representing a release.

8 REGULATORY RECORDS REVIEW

The RWQCB, DTSC, South Coast Air Quality Management District (SCAQMD), LACDPW, Los Angeles County Sanitation District (LACSD), and Los Angeles County Public Health (LACPH) are lead regulatory agencies for permitting and regulating USTs, ASTs, LUST cases, and facilities that use, store, or generate hazardous waste or hazardous materials. Ardent requested file information for the site using the current address assigned to the site. No LACSD records pertaining to the site were available for review.

8.1 Regional Water Quality Control Board, Los Angeles Region (RWQCB)

Ardent reviewed information on the GeoTracker website. According to the information on the website, the site was listed as GTE for a closed UST case in 1996.

8.2 Department of Toxic Substances Control (DTSC)

Ardent reviewed state case file listings on the DTSC's EnviroStor website. According to the DTSC, the site is not listed.

8.3 South Coast Air Quality Management District (SCAQMD)

Ardent reviewed records for the site from the SCAQMD website. Frontier is listed for a permit in 2016 of its air conditioning units. Verizon is listed with inactive permits dated 1988 through 2005 for use of USTs at the site, and active permits for its air conditioning units. Other inactive permits for amine regeneration and NH3 injection. One minor violation was noted.

8.4 Los Angeles County Department of Public Works (LACDPW)

The LACDPW maintains UST, AST, hazardous waste, hazardous materials inventory, and wastewater information. Information obtained from the LACDPW included a number of reports associated with the UST removal activities. These reports are summarized in Section 3.7 and detailed in the ATC Phase I ESA report.

A set of plans dated 1956 showed the former office building in the southwestern portion of the site. This plan indicated that the building was connected to a septic system. As noted in building permits, this building and septic system were removed in 1966.

The 1956 plan also shows the former truck scale and associated dry well, located approximately 25 feet from the scale. The well was reported to extend to 9.5 feet bgs (the well is suspected to be located beneath the current Large Storage Building).

A plan dated 1966 showed the existing Office Building, Supply Building, and the south dispenser canopy as "new." This plan depicts the location of a 12-foot deep cesspool at the southeastern corner of the Truck Wash Tunnel, and a 20-foot deep cesspool northwest of the former clarifier. As noted above, this clarifier and some impacted soils were excavated and the clarifier was replaced with the existing feature. A septic system (six 900-gallon septic tanks and four cesspools) were associated with the existing Office Building. As noted above, the site was connected to the municipal sewer system in 1967.

In a plan dated 1969, the former steam cleaning area and two associated clarifiers were shown immediately east of the current boiler room.

9 VAPOR ENCROACHMENT CONDITION (VEC)

Ardent completed a VEC study for the site using Tier 1 criteria as recommended by ASTM E 2600-15. The Tier 1 screening identifies surrounding facilities that pose a possible vapor intrusion source to the site based on the results of the Phase I ESA investigations and certain criteria outlined by ASTM. These criteria include a certain distance from the target site (referred to by ASTM as within the "area of concern"); the types of chemicals used (referred to by ASTM as the "chemicals of concern"); and a plume test to determine if the plume associated with a source of contamination is close enough to the site to impact indoor air quality.

Although VOC-impacted groundwater is reported to exist beneath the site, due to the depth of groundwater, there is a low likelihood that off-gassing contaminants would pose a possible threat to human health through vapor intrusion. However, investigations at the site have shown concentrations of chlorinated solvents in soil gas samples. Since completing these investigations, regulatory agencies have issued screening levels for VOCs in soil gas for the protection of human health through vapor intrusion. These screening levels have much lower

concentrations than those used to assess whether a significant release has occurred (i.e. a threat to groundwater). In addition, chlorinated solvent uses have been discovered in regulatory databases reviewed during this assessment. Based on the uncertainty of solvent uses in the Vehicle Service Building, former steam cleaning area, and Truck Wash Tunnel area, the recorded use of chlorinated solvents at the site, and due to the lower screening levels associated with human health risk criteria, Ardent has concluded that a possible vapor intrusion risk may be present.

10 FINDINGS, OPINIONS AND CONCLUSIONS

Based upon the results of this Phase I ESA the following findings, opinions and conclusions are provided.

10.1 Findings and Opinions

The following presents a summary of the findings and opinions associated with this Phase I ESA performed for the site, including known or suspect RECs, controlled RECs, and de minimus environmental conditions (i.e., conditions that generally do not present a material risk of harm to public health or the environment).

- From at least 1928 through 1952, the site was used for agricultural purposes and residences. In approximately 1957, the site began to be used as a telecommunication maintenance yard. The Vehicle Service Building was constructed in 1957. In 1964, a large office building was located in the southwestern portion of the site and oriented in an east-west direction. By 1966, the historical office building was replaced with the existing Office Building, Supply Building, Large Storage Building, and Truck Wash Tunnel.
- Groundwater has been measured in the site vicinity at depths of approximately 250 feet bgs and flows in a southwesterly direction. The site is located within the San Gabriel Valley Groundwater Basin. Portions of the San Gabriel Valley Groundwater Basin have been listed on the NPL, or Superfund Site. The site is located within the Baldwin Park Operable Unit of the San Gabriel Valley Groundwater Basin which has been impacted with VOCs, namely the chlorinated solvents TCE and PCE, which were historically used by the commercial and industrial facilities located in this area. Based on our review of groundwater plume maps provided by the EPA, the site is located within a VOC plume and groundwater beneath the site has been impacted with chlorinated solvents ranging from the MCLs to 10 times the MCLs. On behalf of the EPA, the RWQCB has investigated the site as part of their WIP. Two investigations were completed at the site which indicated relatively low concentrations of VOCs, including chlorinated solvents. An initial soil and soil gas survey completed in 1991 resulted in a NFA letter dated September 3, 1992, and an additional investigation completed in 1995 resulted in another NFA letter dated June 5, 1998. The regional VOC-impacted groundwater would

be considered a REC. Issuance of the NFA letter indicates that the site operations have not contributed to the regional groundwater contamination, and therefore, the site owner would not be considered a Responsible Party.

- As part of the maintenance activities, fueling and maintenance of fleet vehicles included the use of USTs. Throughout the years, these tanks were removed and replaced with ASTs. The on-site USTs included one 10,000-gallon diesel UST associated with the southern dispenser which was removed in 1988, a 12,000-gallon gasoline UST associated with the northern dispenser which was removed in 1996, a 10,000-gallon gasoline UST which replaced the 12,000-gallon UST and was removed in 2009, and a 1,000-gallon waste oil UST located immediately south of the Vehicle Service Building which was removed in 1996. It should be noted that a fifth UST may have been located in the same general area as the tank associated with the southern dispenser island. A building permit dated 1957 was noted for a “gas pump canopy.” At this time, only the southern dispenser was noted on-site. It is assumed this tank was replaced with the 10,000-galon UST discussed above, which was ultimately removed. The four USTs were removed under the direction and oversight of the LACDPW, and impacted soils were remediated by excavation. Laboratory results of confirmation samples showed no detectable to low concentrations of residual contaminants. Based on these results, NFA letters were issued by the LACDPW. Ardent has reviewed these data and concur with the regulatory agency that no further work is necessary. Based on these results, these former USTs would no longer be considered an environmental concern to the site. According to ASTM Standards, these former features would be considered a HREC.
- The Vehicle Service Building formerly used four hydraulic lifts (which have been removed) and currently uses three hydraulic lifts. None of these features have been investigated. Based on this information, these features would be considered an environmental concern to the site. Solvents are also typically used to clean parts. Due to the possible solvent use in the Vehicle Service Building, a vapor intrusion issue may be present.
- A former steam cleaning area was also located in the mid-central portion of the Vehicle Service Building. The former steam cleaning area was reportedly connected to two clarifiers. The clarifiers were reportedly “removed” or “abandoned,” it was not clarified which occurred. The area has since been remodeled to include an office area. Steam cleaning activities typically use solvents as degreaser agents. One soil gas point was placed in the vicinity of the clarifiers in 1991 as part of the WIP investigations. Laboratory results indicated no detectable concentrations of VOCs and low concentrations of petroleum hydrocarbons (10 mg/kg) in soil and total VOC concentrations of 4.85 to 8.94 ug/l, a breakdown per constituent was not provided. Although these laboratory results are relatively low, it is our judgement that the clarifiers and former steam cleaning area were not adequately assessed. Based on this information, these features would be considered an environmental concern to the site and may pose a possible vapor intrusion issue.
- Three 120-gallon underground hydraulic fluid reservoirs were located immediately south of the Vehicle Service Building. Although representatives of Frontier did not know what these features were used for, it is our assumption, based on their location, that the reservoirs were used to store hydraulic oil for the hydraulic lifts. Hydraulic oil is now

supplied to the lifts by two ASTs. The reservoirs have not been previously investigated, and therefore, would be considered an environmental concern to the site.

- The Truck Wash Tunnel includes an area in the northwestern portion of the site that contains a truck washing area, a clarifier, a steam cleaning pad and floor drain, former hazardous waste storage area, former septic tank, two cesspools, and a waste drum storage enclosure. This area was investigated in 1991 as part of the WIP investigations and included the collection of shallow soil and soil gas samples. Laboratory results of soil samples indicated no detectable concentrations of VOCs, and only one soil sample reported elevated concentrations of petroleum hydrocarbons next to the clarifier (at 11,000 mg/kg at 7.5 feet). Total VOCs in soil gas ranged from 0.89 ug/l in a former hazardous waste storage area located near the northeastern corner of the Truck Wash Tunnel to 215.1 ug/l near the clarifier outlet. A breakdown of the VOC constituents was not provided. Although the RWQCB issued a NFA letter, the consultant completing the project recommended that the petroleum hydrocarbon impacted soil and clarifier be removed. In 1992, the clarifier and 47 tons of impacted soils were excavated and removed. Laboratory results of confirmation samples indicated no detectable to low concentrations of petroleum hydrocarbons and VOCs. The RWQCB issued a NFA letter dated January 20, 1993. Although the impacted materials appear to have been removed, the remediation effort was completed over 24 years ago and this area has continued to be used to clean vehicles and store hazardous wastes. Based on this information, the Truck Wash Tunnel area would be considered an environmental concern to the site and may pose a vapor intrusion issue.
- In 1956, a site plan referenced the installation of a dry well located in the northeastern portion of the site. The dry well was connected to a former truck scale, that has since been removed from the site. Based on a review of the site plan, the dry well would now be located beneath the existing Large Storage Building. A circular steel plate was noted in this general area. Rainwater accumulated within the subsurface compartment holding the truck scale would drain to the dry well. Since rainwater would likely contain oil and grease from the truck scale, this feature would be considered an environmental concern to the site. A circular steel plate was also located near the Large Storage Building, which may also be a dry well. In additional, solvent storage was noted by Ardent in the Large Storage Building.
- Verizon was listed as a small quantity generator of hazardous waste, including chlorinated solvents. Solvents are typically used for parts cleaning and degreasing purposes. Due to the possible solvent uses in the Vehicle Service Building, former steam cleaning area, Truck Wash Tunnel area, and Large Storage Building, a possible vapor intrusion issue may be present.
- Numerous 55-gallon drums and other containers were noted throughout the site used to contain waste oil, virgin oil, oil filters, and/or other liquid or hazardous materials. Due to the lack of staining or evidence of a release, these containers would not be considered an environmental concern to the site.
- Based on the age of the buildings (1957, 1964, and 1966), ACMs and LBP may be present.
- No other on- or off-site environmental concerns were noted.

10.2 Conclusions

Ardent has performed this Phase I ESA in general conformance with the scope and limitations of the ASTM Practice E 1527-13, ASTM Practice E 2600-15, and the EPA Standards and Practices for AAI, Final Rule (40 CFR, Part 312), for the property located at 5010 Azusa Canyon Road in the city of Irwindale, California. Any limitations or exceptions encountered during completion of this report are stated in Section 1.4. Based on this Phase I ESA, no evidence or indication of RECs, or conditions indicative of releases or threatened releases of hazardous substances on, at, in, or to the site has been revealed, except for the former and current hydraulic lifts in the Vehicle Service Building, features associated with the Truck Wash Tunnel (including the truck washing area, clarifier, steam cleaning pad and floor drain, former cesspool, waste drum storage enclosure, and former hazardous waste storage area), three underground hydraulic oil reservoirs, the former steam cleaning area and two former clarifiers in the Vehicle Service Building (former steam cleaning operations), dry wells, Large Storage Building (solvent storage), and the VOC-impacted groundwater. Although not considered an REC in accordance with ASTM Standards, ACMs and LBP may be present in the on-site buildings.

11 RECOMMENDATIONS

Based on the information obtained during this assessment, Ardent has the following recommendations:

- Although the VOC-impacted groundwater is considered an REC in accordance with ASTM Standards, the site has been investigated and issued a NFA letter. However, the investigations were completed over 22 years ago and solvent uses have continued, and therefore, additional investigations should be completed to further assess whether impacted soil exists. In addition, since completing the investigations at the site, regulatory agencies have issued screening levels for VOCs in soil gas for the protection of human health through vapor intrusion. These screening levels have much lower concentrations than those used to assess whether a significant release has occurred (i.e. a threat to groundwater). Verizon was noted in agency files to generate hazardous wastes including chlorinated solvents. Based on the uncertainty of solvent uses in the Vehicle Service Building, former steam cleaning area and clarifiers, Large Storage Building, and Truck Wash Tunnel area (which would include the active Truck Wash Tunnel and associated clarifier, former cesspools, former septic tank, and active steaming pad), the recorded use of chlorinated solvents at the site, and due to the lower screening levels associated with human health risk criteria, Ardent recommends completing a soil gas survey in the area of possible solvent uses to assess whether a vapor intrusion issue is present.

- Soil sampling should be completed in the location of the former features of environmental concern that are not going to be used by Frontier during its lease. The former steam cleaning area and two former clarifiers in the Vehicle Service Building are inaccessible (currently being used as an office). Also, lithological conditions may not allow the advancement of deep soil borings (i.e. due to the presence of gravel and cobbles), and therefore, investigation in the locations of the dry wells (also described as the circular steel plates beneath, and in close proximity to, the Large Storage Building) may be difficult. Dry wells are sometimes installed at depths of up to 30 feet deep. Based on this information, Ardent suggests using the soil gas survey described above as a screening technique in these areas. Soil borings should be attempted in the former hazardous waste storage area near the Truck Wash Tunnel and next to the former hydraulic lifts, where investigations would be limited to 15 feet bgs.
- Prior to Frontier vacating the property, all miscellaneous containers of waste, liquids or hazardous substances should be profiled and disposed. All regulatory permits should be closed. All features with possible environmental concerns that will continue to be used by Frontier during its lease should be removed at the end of its lease, including clarifiers, active hydraulic lifts, Truck Wash Tunnel, steam cleaning pad and floor drain, waste drum storage enclosure, ASTs, and hydraulic oil reservoirs. Following removal, confirmation samples should be collected. If regulated, the removal activities should be complete under the direction and oversight of the lead regulatory agency.
- Prior to demolition, a comprehensive asbestos and LBP survey should be completed. If present, these materials should be removed by a State-licensed abatement contractor.

12 SELECTED REFERENCES

ATC Group Services, Inc., 2016, Phase I Environmental Site Assessment, Frontier Communication Corporation, Irwindale GWC, 5010 Azusa Canyon Road, Irwindale, California: Report prepared for Frontier Communications, Pomona, California, dated December 19.

Environmental Data Resources, Inc. (EDR), 2017, Radius Map, dated January 19.

13 QUALIFICATIONS STATEMENT AND SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

Mr. Paul Roberts states that the Phase I ESA was performed under his direct supervision, and that he has reviewed and approved the report, and the methods and procedures employed in the development of the report conform to the minimum industry standards. Mr. Roberts certifies that Ardent project personnel and subcontractors are properly licensed and/or certified to do the work described herein.

Pursuant to Paragraph 12.13 of the ASTM Standard E1527-13:

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental professional* as defined in §312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the site. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Paul Roberts
Principal Geologist

NO SCALE

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

ARDENT ENVIRONMENTAL GROUP, INC.	PROJECT NO. **100835001D**	**SITE LOCATION MAP**	FIGURE **1**
	DATE **04/17**	5010 AZUSA CANYON ROAD IRWINDALE, CALIFORNIA	

1. Multi-Tenant Industrial
   (5102-5108 Azusa Canyon Road)
2. Single Family Residences
3. Multi-Tenant Industrial Building
   (4945-4954 Azusa Canyon Road)
4. AAG Ice Cream
   (4938 Azusa Canyon Road)
5. Malcolm Drilling
   (4926 Azusa Canyon Road)
6. Industrial Building
   (4981 4th Street)
7. Industrial Building
   (5091 4th Street)
8. Multi-Tenant Industrial Building
   (15558-15562 Arrow Highway)

LEGEND

Approximate Site Boundary

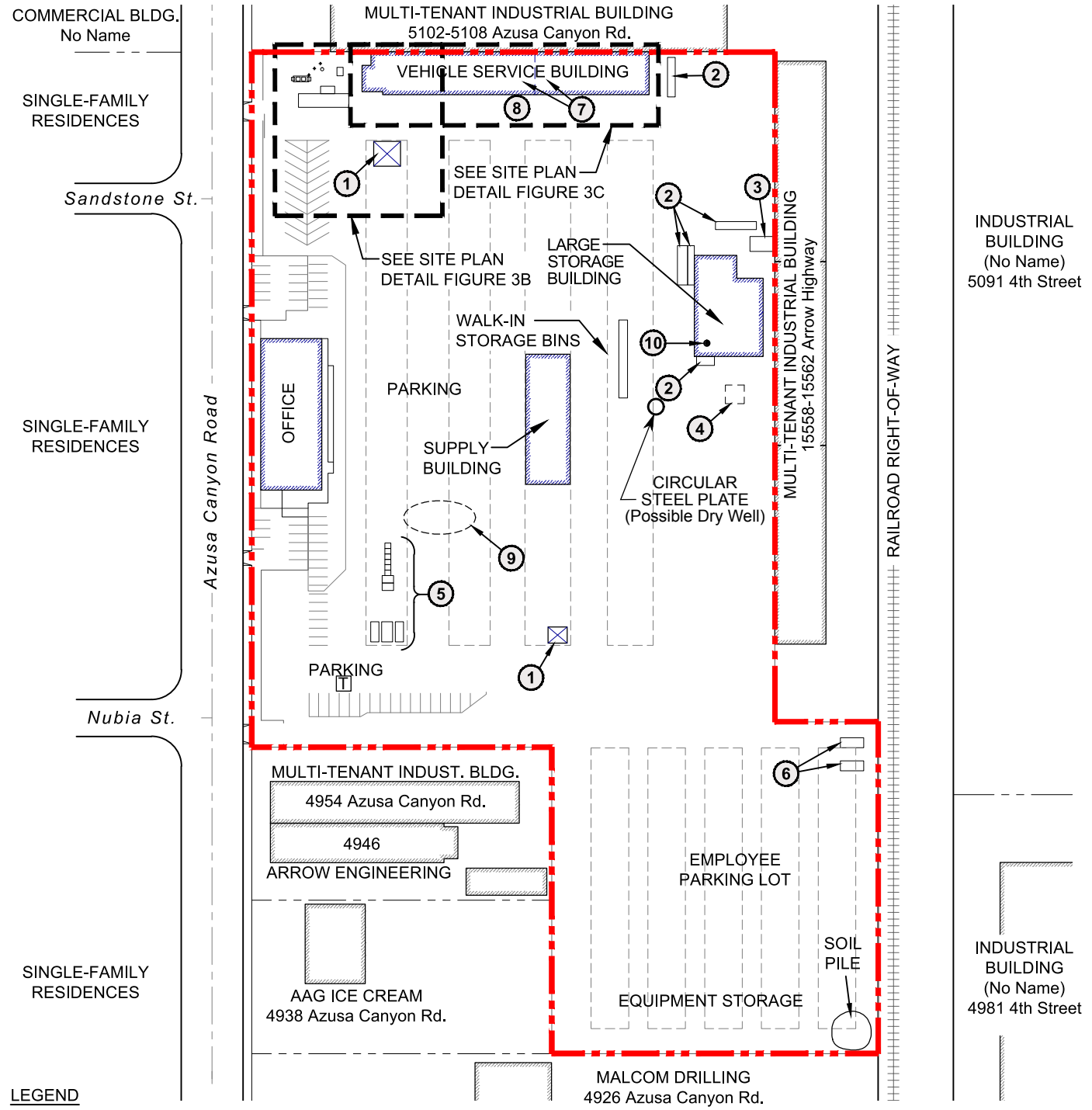
N

NO SCALE

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

ARDENT ENVIRONMENTAL GROUP, INC.

PROJECT NO.	SITE VICINITY MAP	FIGURE
100835001D		2
DATE	5010 AZUSA CANYON ROAD	
04/17	IRWINDALE, CALIFORNIA	



LEGEND

- FENCE
- PROPERTY BOUNDARY
- (1) DISPENSER CANOPY (Inactive)
- (2) WALK-IN STORAGE BIN (No Access)
- (3) STORAGE BUILDING CONVERTED FROM PAINT SPRAY BOOTH
- (4) COMPRESSED GAS CYLINDER STORAGE
- (5) CURRENT WASTE STORAGE AND PICK-UP AREA
- (6) BAD POLE STORAGE BINS
- (7) FORMER CLARIFIERS
- (8) FORMER WASTE OIL UST
- (9) FORMER SEPTIC SYSTEM (Approx.)
- (10) DRY WELL LOCATION (Approx.)
- [T] POLE-MOUNTED TRANSFORMER

APPROXIMATE SCALE IN FEET

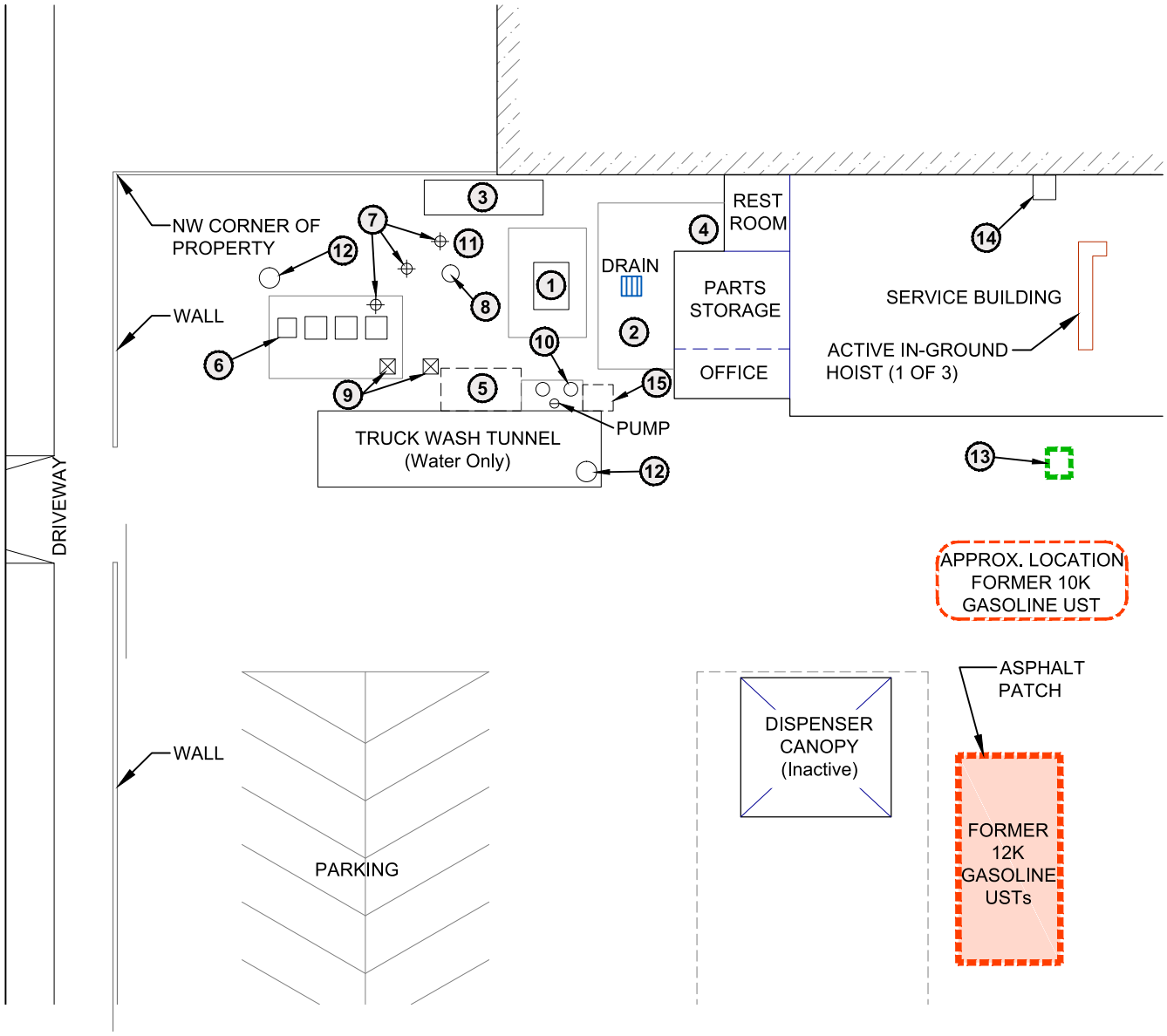
0 100

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

SOURCE: ATC, 5010 Azusa Canyon Road, Irwindale, California, Figure 3A-Site Plan, dated 12/12/2016

ARDENT ENVIRONMENTAL GROUP, INC.

PROJECT NO.	SITE PLAN	FIGURE
100835001D		3A
DATE 04/17	5010 AZUSA CANYON ROAD IRWINDALE, CALIFORNIA	



LEGEND

1. DUAL COMPARTMENT AST FOR NEW OIL AND WASTE OIL
2. STEAM CLEANING PAD
3. WASTE/DRUM STORAGE ENCLOSURE
4. DRUM AND COMPRESSOR STORAGE
5. COMPRESSOR ENCLOSURE
6. CLARIFIER
7. VAPOR MONITORING WELL
8. CIRCULAR ACCESS PLATE (Purpose unknown)
9. SAMPLE BOX FOR TRUCK WASH OR STEAM CLEANING AREA
10. SOAP CHAMBERS
11. FORMER SEPTIC TANK LOCATION (Estimated)
12. FORMER CESSPOOL LOCATION (Estimated)
13. HYDRAULIC OIL RESERVOIR (1 of 3)
14. HYDRAULIC OIL AST (1 of 2)
15. FORMER HAZ WASTE STORAGE AREA

N

APPROXIMATE SCALE IN FEET

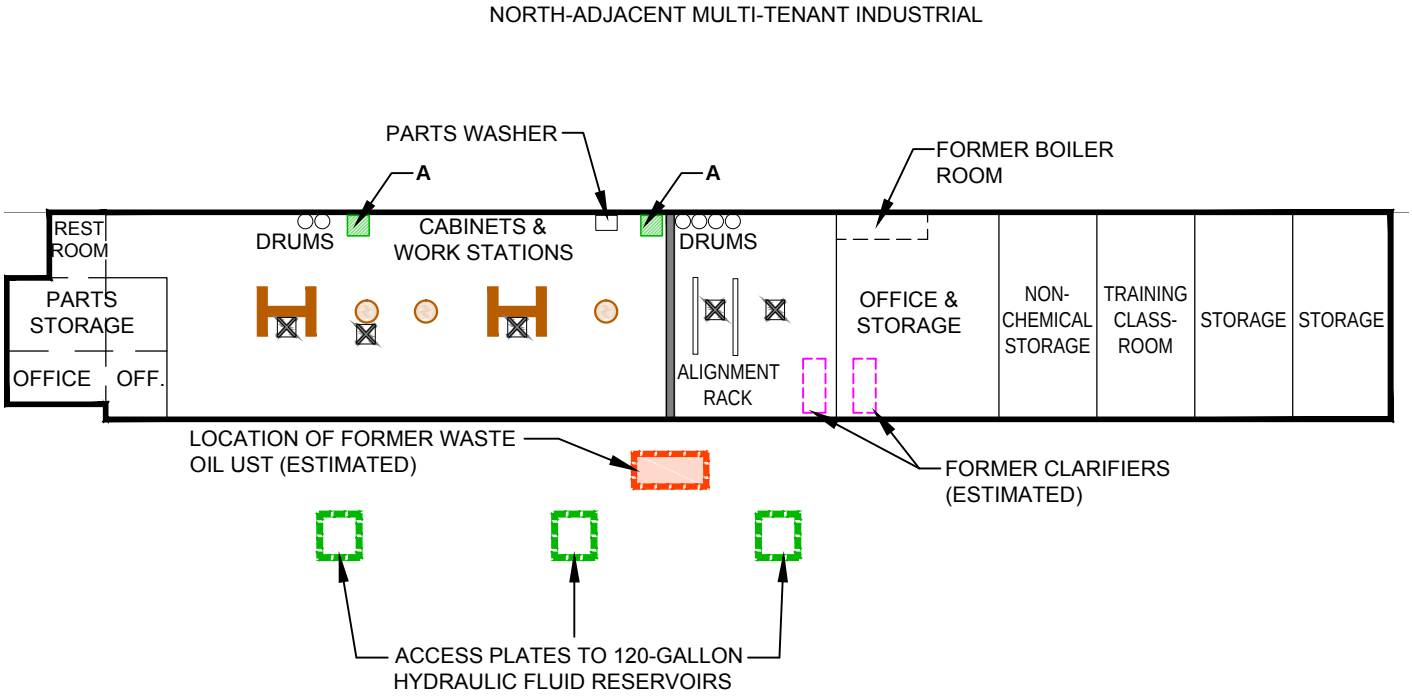
0 30

SOURCE: ATC, 5010 Azusa Canyon Road, Irwindale, California, Figure 3B-Site Plan Detail, dated 12/12/2016

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

ARDENT ENVIRONMENTAL GROUP, INC.

PROJECT NO.	SITE PLAN DETAIL	FIGURE
100835001D		3B
DATE 04/17	5010 AZUSA CANYON ROAD IRWINDALE, CALIFORNIA	



LEGEND

- ABOVEGROUND LIFT
- FORMER IN-GROUND LIFT LOCATION
- ACTIVE IN-GROUND LIFT LOCATION
- A — HYDRAULIC FLUID AST LOCATION

N

NO SCALE

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

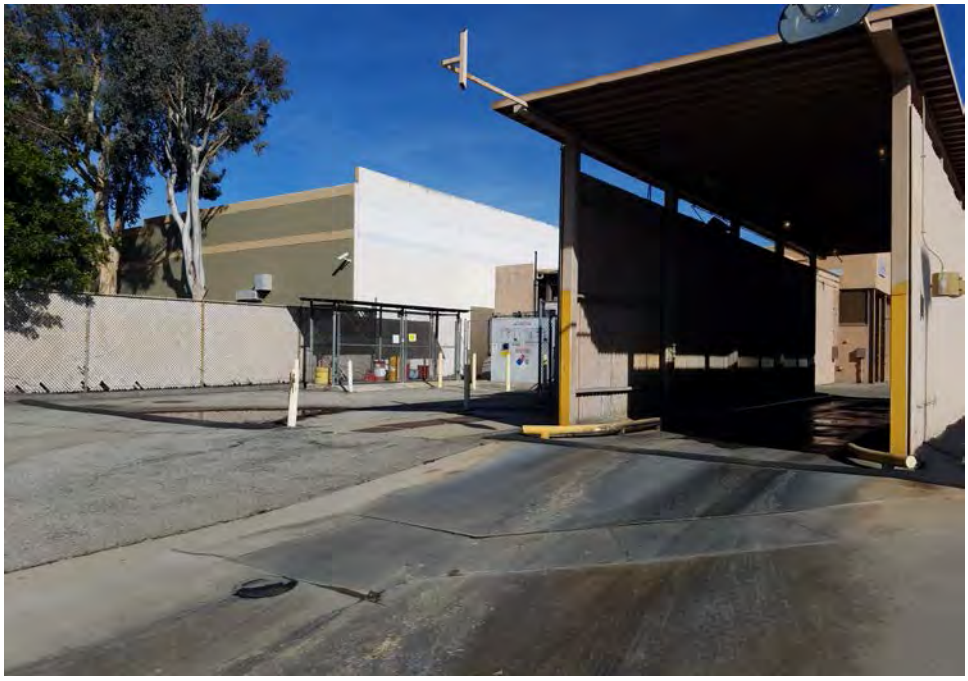
SOURCE: ATC, 5010 Azusa Canyon Road, Irwindale, California, Figure 3C-Site Plan Detail, dated 12/12/2016

ARDENT ENVIRONMENTAL GROUP, INC.	PROJECT NO. **100835001D**	**SITE PLAN DETAIL**	FIGURE **3C**
	DATE **04/17**	5010 AZUSA CANYON ROAD IRWINDALE, CALIFORNIA	

APPENDIX A
PHOTOGRAPHIC DOCUMENTATION

Photograph No. 1: Site Office Building and parking areas, looking north.

Photograph No. 2: Truck Wash Tunnel, looking west.



Photograph No. 3: Northwest corner of the site, looking northeast.

Photograph No. 4: Clarifier located immediately north of the Truck Wash Tunnel.

Photograph No. 5: **Waste/Drum Storage Enclosure located north of the Truck Wash Tunnel.**

Photograph No. 6: **Aboveground Storage Tanks containing new and used motor oil and located north of the Truck Wash Tunnel.**

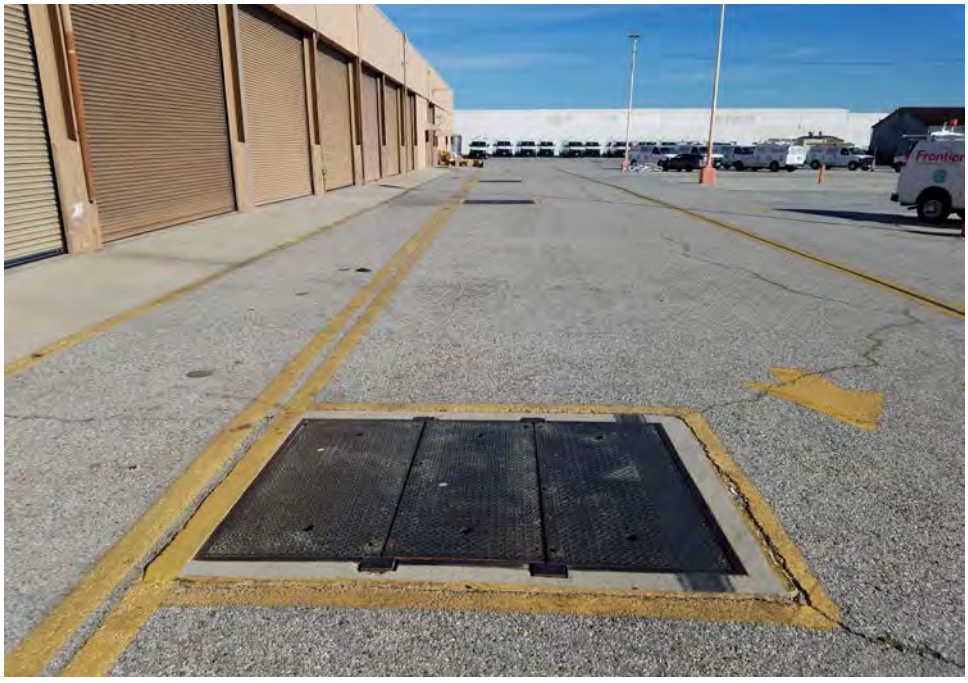
Photograph No. 7: North portion of Large Storage Building.

Photograph No. 8: Chlorinated solvent container observed in the Large Storage Building.

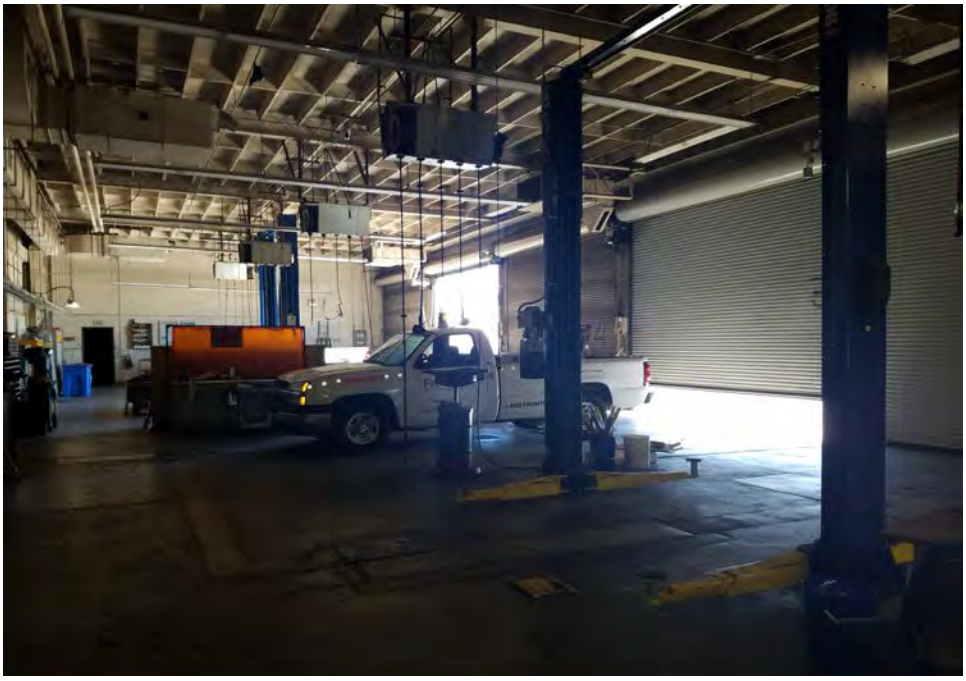
Photograph No. 9: **One of the circular steel plates (assumed to be associated with dry well) located underneath the southwest portion of the Large Storage Building.**

Photograph No. 10: **One of the circular steel plates located approximately 40-feet southwest of the Large Storage Building.**

Photograph No. 11: Inactive dispenser canopy and Vehicle Service Building in background.



Photograph No. 12: Three 120-gallon underground hydraulic oil reservoirs located immediately south of Vehicle Service Building.



Photograph No. 13: The shop area of the Vehicle Service Building.

Photograph No. 14: View of site Office Building facing west.

Photograph No. 15: Offices inside site Office Building.

Photograph No. 16: North adjacent multi-tenant industrial building.

Photograph No. 17: East adjacent multi-tenant industrial building.

Photograph No. 18: On-site pole-mounted transformer beyond which is south adjacent multi-tenant industrial building.

Photograph No. 19: South adjacent Malcolm Drilling.

APPENDIX B

USER PROVIDED INFORMATION

Updated 01/04/2017
(added exc. A.)

Amended December 06, 2016
1) Requirement E amended
2) Items 9 and 10 deleted

First American Title Insurance Company
National Commercial Services

777 South Figueroa Street, Suite 400
Los Angeles, CA 90017

January 04, 2017

Mike Shellow
CBRE
2829 Townsgate Rd., Suite 103
Westlake Village, CA 91361
Phone: (805)728-8404

Customer Reference: GWC CO Portfolio Sale - 5010 Azusa Canyon Road

Title Officer:	Liz Thymius	Title Assistant:	Leticia Rivera
Phone:	(213)271-1744	Phone:	(213)271-1700
Email:	ethymius@firstam.com	Email:	letyrivera@firstam.com

Order Number: NCS-817926-05-LA2

Property: 5010 Azusa Canyon Road, Irwindale, CA

Attached please find the following item(s):

Commitment

Thank You for your confidence and support. We at First American Title Insurance Company maintain the fundamental principle:

Customer First!

First American Title Insurance Company

INFORMATION

The Title Insurance Commitment is a legal contract between you and the company. It is issued to show the basis on which we will issue a Title Insurance Policy to you. The Policy will insure you against certain risks to the land title, subject to the limitations shown in the policy.

The Company will give you a sample of the Policy form, if you ask.

The Commitment is based on the land title as of the Commitment Date. Any changes in the land title or the transaction may affect the Commitment and the Policy.

The Commitment is subject to its Requirements, Exceptions and Conditions.

This information is not part of the title insurance commitment.

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Agreement to Issue Policy		3
Schedule A		
1.	Commitment Date	4
2.	Policies to be Issued, Amounts and Proposed Insured	4
3.	Interest in the Land and Owner	4
4.	Description of the Land	4
Schedule B-1 - Requirements		
Schedule B-2 - Exceptions		
Conditions		

YOU SHOULD READ THE COMMITMENT VERY CAREFULLY.
If you have any questions about the Commitment,
please contact the issuing office.

COMMITMENT FOR TITLE INSURANCE

Issued by

First American Title Insurance Company

Agreement to Issue Policy

We agree to issue a policy to you according to the terms of this Commitment.

When we show the policy amount and your name as the proposed insured in Schedule A, this Commitment becomes effective as of the Commitment Date shown in Schedule A.

If the Requirements shown in this Commitment have not been met within six months after the Commitment Date, our obligation under this Commitment will end. Also, our obligation under this Commitment will end when the Policy is issued and then our obligation to you will be under the Policy.

Our obligation under this Commitment is limited by the following:

The Provisions in Schedule A.

The Requirements in Schedule B-1.

The Exceptions in Schedule B-2.

The Conditions.

This Commitment is not valid without Schedule A and Sections 1 and 2 of Schedule B.

SCHEDULE A

1. Commitment Date: December 08, 2016 at 7:30 A.M.

2. Policy or Policies to be issued: Amount

   (A) ALTA Standard Owner's Policy $TBD

   Proposed Insured:

   To Be Determined

   (B) ALTA Extended Loan Policy $TBD

   Proposed Insured:

   To Be Determined

3. (A) The estate or interest in the land described in this Commitment is:

   Fee Simple

   (B) Title to said estate or interest at the date hereof is vested in:

   GTE California Incorporated, a corporation which acquired title and formerly known as General Telephone Company of California

4. The land referred to in this Commitment is situated in the City of Irwindale, County of Los Angeles, State of California, and is described as follows:

   PARCEL 1: APN: 8417-026-801

   THE NORTH HALF OF THE WEST HALF OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 1 SOUTH, RANGE 10 WEST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT OF SAID LAND FILED IN THE DISTRICT LAND OFFICE APRIL 21, 1877.

   EXCEPT THEREFROM THE SOUTH 5 ACRES THEREOF.

   ALSO EXCEPT THEREFROM THE NORTH 30 FEET THEREOF.

   EXCEPT ALSO FROM THE REMAINDER THE WEST 340 FEET.

   PARCEL 2: APN: 8417-026-800

   THE NORTH 30 FEET OF THE WEST HALF OF THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 1 SOUTH, RANGE 10 WEST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT OF SAID LAND FILED IN THE DISTRICT LAND OFFICE, APRIL 21, 1877.

   EXCEPT THE WESTERLY 20 FEET THEREOF DEEDED TO THE COUNTY OF LOS ANGELES FOR ROAD PURPOSES BY DEED RECORDED IN BOOK 6676, PAGE 150 OF DEEDS.

ALSO EXCEPT ALL OF THE OIL, GAS, AND OTHER MINERAL RIGHTS (BOTH METALLIC AND NON-METALLIC) IN AND UNDER SAID LAND, AND THE RIGHT TO EXTRACT THE SAME BY SLANT DRILLING OR SLANT MINING WHICH DOES NOT SUBSTANTIALLY INTERFERE WITH THE USE OF SAID LAND BY GRANTOR, ITS SUCCESSORS AND ASSIGNS, AS RESERVED BY CONSOLIDATED ROCK PRODUCTS CO., A CORPORATION, IN DEED RECORDED JULY 31, 1953 IN BOOK 42353, PAGE 414, OFFICIAL RECORDS.

PARCEL 3: APNS: 8417-025-800 AND 801

THE SOUTHWEST QUARTER OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 1 SOUTH, RANGE 10 WEST SAN BERNARDINO MERIDIAN ACCORDING TO THE OFFICIAL PLAT OF SAID LAND FILED IN THE DISTRICT LAND OFFICE 4-21-1877,

EXCEPT THE EAST 100 FEET THEREOF.

ALSO EXCEPT THE WEST 40 FEET THEREOF CONVEYED TO THE COUNTY OF LOS ANGELES FOR ROAD PURPOSES.

SCHEDULE B

SECTION ONE

REQUIREMENTS

The following requirements must be met:

(A) Pay the agreed amounts for the interest in the land and/or the mortgage to be insured.

(B) Pay us the premiums, fees and charges for the policy.

(C) Documents satisfactory to us creating the interest in the land and/or the mortgage to be insured must be signed, delivered and recorded.

(D) You must tell us in writing the name of anyone not referred to in this Commitment who will get an interest in the land or who will make a loan on the land. We may then make additional requirements or exceptions.

(E) Releases(s) or Reconveyance(s) of Item(s): None

(F) Other: None

(G) You must give us the following information:
1. Any off record leases, surveys, etc.
2. Statement(s) of Identity, all parties.
3. Other: None

The following additional requirements, as indicated by "X", must be met:

[X] (H) Provide information regarding any off-record matters, which may include, but are not limited to: leases, recent works of improvement, or commitment statements in effect under the Environmental Responsibility Acceptance Act, Civil Code Section 850, et seq.

The Company's Owner's Affidavit form (as provided by company) must be completed and submitted prior to close in order to satisfy this requirement. This Commitment will then be subject to such further exceptions and/or requirements as may be deemed necessary.

[] (I) An ALTA/NSPS survey of recent date, which complies with the current minimum standard detail requirements for ALTA/NSPS land title surveys, must be submitted to the Company for review. This Commitment will then be subject to such further exceptions and/or requirements as may be deemed necessary.

[] (J) The following LLC documentation is required:
(i) a copy of the Articles of Organization
(ii) a copy of the Operating Agreement, if applicable
(iii) a Certificate of Good Standing and/or other evidence of current Authority to Conduct Business within the State
(iv) express Company Consent to the current transaction

[] (K) The following partnership documentation is required **:**
(i) a copy of the partnership agreement, including all applicable amendments thereto
(ii) a Certificate of Good Standing and/or other evidence of current Authority to Conduct Business within the State
(iii) express Partnership Consent to the current transaction

[X] (L) The following corporation documentation is required:
(i) a copy of the Articles of Incorporation
(ii) a copy of the Bylaws, including all applicable Amendments thereto
(iii) a Certificate of Good Standing and/or other evidence of current Authority to Conduct Business within the State
(iv) express Corporate Resolution consenting to the current transaction

[**X**] (M) Based upon the Company's review of that certain partnership/operating agreement dated **Not disclosed** for the proposed insured herein, the following requirements must be met:

Any further amendments to said agreement must be submitted to the Company, together with an affidavit from one of the general partners or members stating that it is a true copy, that said partnership or limited liability company is in full force and effect, and that there have been no further amendments to the agreement. This Commitment will then be subject to such further requirements as may be deemed necessary.

[] (N) A copy of the complete lease, as referenced in Schedule A, #3 herein, together with any amendments and/or assignments thereto, must be submitted to the Company for review, along with an affidavit executed by the present lessee stating that it is a true copy, that the lease is in full force and effect, and that there have been no further amendments to the lease. This Commitment will then be subject to such further requirements as may be deemed necessary.

[X] (O) Approval from the Company's Underwriting Department must be obtained for issuance of the policy contemplated herein and any endorsements requested thereunder. This Commitment will then be subject to such further requirements as may be required to obtain such approval.

[X] (P) Potential additional requirements, if ALTA Extended coverage is contemplated hereunder, and work on the land has commenced prior to close, some or all of the following requirements, and any other requirements which may be deemed necessary, may need to be met:

[] (Q) The Company's "Indemnity Agreement I" must be executed by the appropriate parties.

[] (R) Financial statements from the appropriate parties must be submitted to the Company for review.

[] (S) A copy of the construction contract must be submitted to the Company for review.

[] (T) An inspection of the land must be performed by the Company for verification of the phase of construction.

[] (U) The Company's "Mechanic's Lien Risk Addendum" form must be completed by a Company employee, based upon information furnished by the appropriate parties involved.

SCHEDULE B

SECTION TWO

EXCEPTIONS

Any policy we issue will have the following exceptions unless they are taken care of to our satisfaction. The printed exceptions and exclusions from the coverage of the policy or policies are set forth in Exhibit A attached. Copies of the policy forms should be read. They are available from the office which issued this Commitment.

A. General and special taxes and assessments for the fiscal year 2017-2018, a lien not yet due or payable.

1. Real property taxes are currently assessed under the State Board of Equalization Public Utility Tax Roll; Code Area No. S B of E Par 3 Map 201 19 412. Which includes this and other property; for full particulars, please contact the State Board of Equalization Property Tax Validation Division, Telephone Number (916) 322-2323. Additional information to follow upon request.

   (Affects APN: 8417-026-801)

2. Real property taxes are currently assessed under the State Board of Equalization Public Utility Tax Roll; Code Area No. S B of E Par 3 Map 201 19 412. Which includes this and other property; for full particulars, please contact the State Board of Equalization Property Tax Validation Division, Telephone Number (916) 322-2323. Additional information to follow upon request.

   (Affects APN: 8417-026-800)

3. Real property taxes are currently assessed under the State Board of Equalization Public Utility Tax Roll; Code Area No. S B of E Par 3 Map 201 19 412. Which includes this and other property; for full particulars, please contact the State Board of Equalization Property Tax Validation Division, Telephone Number (916) 322-2323. Additional information to follow upon request.

   (Affects APN: 8417-025-800)

4. Real property taxes are currently assessed under the State Board of Equalization Public Utility Tax Roll; Code Area No. S B of E Par 3 Map 201 19 412. Which includes this and other property; for full particulars, please contact the State Board of Equalization Property Tax Validation Division, Telephone Number (916) 322-2323. Additional information to follow upon request.

   (Affects APN: 8417-025-801)

5. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.

6. The right to use said Parcel 2 for roadway purposes and both the surface and subsurface thereof for the purpose of constructing and maintaining thereon telephone poles, water and gas, pipe lines and other similar purposes. Said roadway is to be used in connection with that land located in the County of Los Angeles, State of California, described as follows:

   The South 5 acres of the East half of the Northwest quarter of the Northwest quarter of Section 9, Township 1 South, Range 10 West, San Bernardino Meridian, excepting therefrom the

Westerly 40 feet thereof as conveyed to Pacific Electric Railway Company. The East half of the Southwest quarter of the Northwest quarter of Section 9, Township 1 South, Range 10 West, San Bernardino Meridian, in the County of Los Angeles, State of California, excepting therefrom the West 40 feet thereof.

Provided that none of the rights reserved by grantors pursuant to the provisions of this paragraph shall preclude the construction, maintenance, use and operation by grantees, or their successors in interest, of one or more railroad sidings over, upon and across the land described in deed dated July 21, 1953, from Consolidated Rock Products Co., a corporation, to H & A Realty Company, a corporation, recorded July 31, 1953 in Book 42353, Page 414, Official Records, as reserved by grantor in said deed.

7. The condition that grantees, their successors and assigns, shall at no time use said Parcel 2 directly or indirectly in the conduct of any phase of the rock, sand and/or gravel business, contained in the above mentioned deed, which provide that a violation thereof shall not defeat or render invalid the lien of any mortgage or deed of trust made in good faith and for value.

8. The fact that the land lies within the boundaries of the Irwindale City Industrial Redevelopment Project Area, as disclosed by the document recorded August 06, 1976 as Instrument No. 5641 of Official Records.

9. This item has been intentionally deleted.

10. This item has been intentionally deleted.

11. Rights of parties in possession.

INFORMATIONAL NOTES

1. According to the public records, there has been no conveyance of the land within a period of twenty-four months prior to the date of this report, except as follows:

   None

2. We find no open deeds of trust. Escrow please confirm before closing.

3. If this preliminary report/commitment was prepared based upon an application for a policy of title insurance that identified land by street address or assessor's parcel number only, it is the responsibility of the applicant to determine whether the land referred to herein is in fact the land that is to be described in the policy or policies to be issued.

The map attached, if any, may or may not be a survey of the land depicted hereon. First American Title Insurance Company expressly disclaims any liability for loss or damage which may result from reliance on this map except to the extent coverage for such loss or damage is expressly provided by the terms and provisions of the title insurance policy, if any, to which this map is attached.

*****To obtain wire instructions for deposit of funds to your escrow file please contact your Escrow Officer.******

CONDITIONS

1. **DEFINITIONS**
(a)"Mortgage" means mortgage, deed of trust or other security instrument.
(b)"Public Records" means title records that give constructive notice of matters affecting the title according to the state law where the land is located.

2. **LATER DEFECTS**
The Exceptions in Schedule B - Section Two may be amended to show any defects, liens or encumbrances that appear for the first time in the public records or are created or attached between the Commitment Date and the date on which all of the Requirements (a) and (c) of Schedule B - Section One are met. We shall have no liability to you because of this amendment.

3. **EXISTING DEFECTS**
If any defects, liens or encumbrances existing at Commitment Date are not shown in Schedule B, we may amend Schedule B to show them. If we do amend Schedule B to show these defects, liens or encumbrances, we shall be liable to you according to Paragraph 4 below unless you knew of this information and did not tell us about it in writing.

4. **LIMITATION OF OUR LIABILITY**
Our only obligation is to issue to you the Policy referred to in this Commitment, when you have met its Requirements. If we have any liability to you for any loss you incur because of an error in this Commitment, our liability will be limited to your actual loss caused by your relying on this Commitment when you acted in good faith to:

comply with the Requirements shown in Schedule B - Section One
or
eliminate with our written consent any Exceptions shown in Schedule B - Section Two.

We shall not be liable for more than the Policy Amount shown in Schedule A of this Commitment and our liability is subject to the terms of the Policy form to be issued to you.

5. **CLAIMS MUST BE BASED ON THIS COMMITMENT**
Any claim, whether or not based on negligence, which you may have against us concerning the title to the land must be based on this commitment and is subject to its terms.

First American Title

Privacy Information

We Are Committed to Safeguarding Customer Information

In order to better serve your needs now and in the future, we may ask you to provide us with certain information. We understand that you may be concerned about what we will do with such information - particularly any personal or financial information. We agree that you have a right to know how we will utilize the personal information you provide to us. Therefore, together with our subsidiaries we have adopted this Privacy Policy to govern the use and handling of your personal information.

Applicability

This Privacy Policy governs our use of the information that you provide to us. It does not govern the manner in which we may use information we have obtained from any other source, such as information obtained from a public record or from another person or entity. First American has also adopted broader guidelines that govern our use of personal information regardless of its source. First American calls these guidelines its Fair Information Values.

Types of Information

Depending upon which of our services you are utilizing, the types of nonpublic personal information that we may collect include:

- Information we receive from you on applications, forms and in other communications to us, whether in writing, in person, by telephone or any other means;
- Information about your transactions with us, our affiliated companies, or others; and
- Information we receive from a consumer reporting agency.

Use of Information

We request information from you for our own legitimate business purposes and not for the benefit of any nonaffiliated party. Therefore, we will not release your information to nonaffiliated parties except: (1) as necessary for us to provide the product or service you have requested of us; or (2) as permitted by law. We may, however, store such information indefinitely, including the period after which any customer relationship has ceased. Such information may be used for any internal purpose, such as quality control efforts or customer analysis. We may also provide all of the types of nonpublic personal information listed above to one or more of our affiliated companies. Such affiliated companies include financial service providers, such as title insurers, property and casualty insurers, and trust and investment advisory companies, or companies involved in real estate services, such as appraisal companies, home warranty companies and escrow companies. Furthermore, we may also provide all the information we collect, as described above, to companies that perform marketing services on our behalf, on behalf of our affiliated companies or to other financial institutions with whom we or our affiliated companies have joint marketing agreements.

Former Customers

Even if you are no longer our customer, our Privacy Policy will continue to apply to you.

Confidentiality and Security

We will use our best efforts to ensure that no unauthorized parties have access to any of your information. We restrict access to nonpublic personal information about you to those individuals and entities who need to know that information to provide products or services to you. We will use our best efforts to train and oversee our employees and agents to ensure that your information will be handled responsibly and in accordance with this Privacy Policy and First American's Fair Information Values. We currently maintain physical, electronic, and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

Information Obtained Through Our Web Site

First American Financial Corporation is sensitive to privacy issues on the Internet. We believe it is important you know how we treat the information about you we receive on the Internet.

In general, you can visit First American or its affiliates' Web sites on the World Wide Web without telling us who you are or revealing any information about yourself. Our Web servers collect the domain names, not the e-mail addresses, of visitors. This information is aggregated to measure the number of visits, average time spent on the site, pages viewed and similar information. First American uses this information to measure the use of our site and to develop ideas to improve the content of our site.

There are times, however, when we may need information from you, such as your name and email address. When information is needed, we will use our best efforts to let you know at the time of collection how we will use the personal information. Usually, the personal information we collect is used only by us to respond to your inquiry, process an order or allow you to access specific account/profile information. If you choose to share any personal information with us, we will only use it in accordance with the policies outlined above.

Business Relationships

First American Financial Corporation's site and its affiliates' sites may contain links to other Web sites. While we try to link only to sites that share our high standards and respect for privacy, we are not responsible for the content or the privacy practices employed by other sites.

Cookies

Some of First American's Web sites may make use of "cookie" technology to measure site activity and to customize information to your personal tastes. A cookie is an element of data that a Web site can send to your browser, which may then store the cookie on your hard drive.

FirstAm.com uses stored cookies. The goal of this technology is to better serve you when visiting our site, save you time when you are here and to provide you with a more meaningful and productive Web site experience.

Fair Information Values

Fairness We consider consumer expectations about their privacy in all our businesses. We only offer products and services that assure a favorable balance between consumer benefits and consumer privacy.

Public Record We believe that an open public record creates significant value for society, enhances consumer choice and creates consumer opportunity. We actively support an open public record and emphasize its importance and contribution to our economy.

Use We believe we should behave responsibly when we use information about a consumer in our business. We will obey the laws governing the collection, use and dissemination of data.

Accuracy We will take reasonable steps to help assure the accuracy of the data we collect, use and disseminate. Where possible, we will take reasonable steps to correct inaccurate information. When, as with the public record, we cannot correct inaccurate information, we will take all reasonable steps to assist consumers in identifying the source of the erroneous data so that the consumer can secure the required corrections.

Education We endeavor to educate the users of our products and services, our employees and others in our industry about the importance of consumer privacy. We will instruct our employees on our fair information values and on the responsible collection and use of data. We will encourage others in our industry to collect and use information in a responsible manner.

Security We will maintain appropriate facilities and systems to protect against unauthorized access to and corruption of the data we maintain.

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EXHIBIT A
LIST OF PRINTED EXCEPTIONS AND EXCLUSIONS (BY POLICY TYPE)

1. CALIFORNIA LAND TITLE ASSOCIATION STANDARD COVERAGE POLICY - 1990
SCHEDULE B

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records. Proceedings by a public agency which may result in taxes or assessments, or notice of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the public records.

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
   (c) resulting in no loss or damage to the insured claimant;
   (d) attaching or created subsequent to Date of Policy; or
   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with applicable "doing business" laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate or interest insured by their policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

2. AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY FORM B - 1970
SCHEDULE OF EXCLUSIONS FROM COVERAGE

1. Any law, ordinance or governmental regulation (including but not limited to building and zoning ordinances) restricting or regulating or prohibiting the occupancy, use or enjoyment of the land, or regulating the character, dimensions or location of any improvement now or hereafter erected on the land, or prohibiting a separation in ownership or a reduction in the dimensions of area of the land, or the effect of any violation of any such law, ordinance or governmental regulation.
2. Rights of eminent domain or governmental rights of police power unless notice of the exercise of such rights appears in the public records at Date of Policy.
3. Defects, liens, encumbrances, adverse claims, or other matters (a) created, suffered, assumed or agreed to by the insured claimant; (b) not known to the Company and not shown by the public records but known to the insured claimant either at Date of Policy or at the date such claimant acquired an estate or interest insured by this policy and not disclosed in writing by the insured claimant to the Company prior to the date such insured claimant became an insured hereunder; (c) resulting in no loss or damage to the insured claimant; (d) attaching or created subsequent to Date of Policy; or (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the estate or interest insured by this policy.

3. AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY FORM B - 1970
WITH REGIONAL EXCEPTIONS

When the American Land Title Association policy is used as a Standard Coverage Policy and not as an Extended Coverage Policy the exclusions set forth in paragraph 2 above are used and the following exceptions to coverage appear in the policy.

SCHEDULE B

This policy does not insure against loss or damage by reason of the matters shown in parts one and two following:
Part One

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of said land or by making inquiry of persons in possession thereof.
3. Easements, claims of easement or encumbrances which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by public records.
5. Unpatented mining claims; reservations or exceptions in patents or in Acts authorizing the issuance thereof; water rights, claims or title to water.
6. Any lien, or right to a lien, for services, labor or material heretofore or hereafter furnished, imposed by law and not shown by the public records.

4. AMERICAN LAND TITLE ASSOCIATION LOAN POLICY - 1970
WITH A.L.T.A. ENDORSEMENT FORM 1 COVERAGE
SCHEDULE OF EXCLUSIONS FROM COVERAGE

1. Any law, ordinance or governmental regulation (including but not limited to building and zoning ordinances) restricting or regulating or prohibiting the occupancy, use or enjoyment of the land, or regulating the character, dimensions or location of any improvement now or hereafter erected on the land, or prohibiting a separation in ownership or a reduction in the dimensions or area of the land, or the effect of any violation of any such law ordinance or governmental regulation.
2. Rights of eminent domain or governmental rights of police power unless notice of the exercise of such rights appears in the public records at Date of Policy.
3. Defects, liens, encumbrances, adverse claims, or other matters (a) created, suffered, assumed or agreed to by the insured claimant, (b) not known to the Company and not shown by the public records but known to the insured claimant either at Date of Policy or at the date such claimant acquired an estate or interest insured by this policy or acquired the insured mortgage and not disclosed in writing by the insured claimant to the Company prior to the date such insured claimant became an insured hereunder, (c) resulting in no loss or damage to the insured claimant; (d) attaching or created subsequent to Date of Policy (except to the extent insurance is afforded herein as to any statutory lien for labor or material or to the extent insurance is afforded herein as to assessments for street improvements under construction or completed at Date of Policy).
4. Unenforceability of the lien of the insured mortgage because of failure of the insured at Date of Policy or of any subsequent owner of the indebtedness to comply with applicable "doing business" laws of the state in which the land is situated.

5. AMERICAN LAND TITLE ASSOCIATION LOAN POLICY - 1970
WITH REGIONAL EXCEPTIONS

When the American Land Title Association Lenders Policy is used as a Standard Coverage Policy and not as an Extended Coverage Policy, the exclusions set forth in paragraph 4 above are used and the following exceptions to coverage appear in the policy.

SCHEDULE B

This policy does not insure against loss or damage by reason of the matters shown in parts one and two following:
Part One

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of said land or by making inquiry of persons in possession thereof.
3. Easements, claims of easement or encumbrances which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by public records.
5. Unpatented mining claims; reservations or exceptions in patents or in Acts authorizing the issuance thereof; water rights, claims or title to water.
6. Any lien, or right to a lien, for services, labor or material theretofore or hereafter furnished, imposed by law and not shown by the public records.

6. AMERICAN LAND TITLE ASSOCIATION LOAN POLICY - 1992
WITH A.L.T.A. ENDORSEMENT FORM 1 COVERAGE
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy;
   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.

2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims, or other matters:
(a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
(b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
(c) resulting in no loss or damage to the insured claimant;
(d) attaching or created subsequent to Date of Policy (except to the extent that this policy insures the priority of the lien of the insured mortgage over any statutory lien for services, labor or material or the extent insurance is afforded herein as to assessments for street improvements under construction or completed at date of policy); or
(e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable "doing business" laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any statutory lien for services, labor or materials (or the claim of priority of any statutory lien for services, labor or materials over the lien of the insured mortgage) arising from an improvement or work related to the land which is contracted for and commenced subsequent to Date of Policy and is not financed in whole or in part by proceeds of the indebtedness secured by the insured mortgage which at Date of Policy the insured has advanced or is obligated to advance.
7. Any claim, which arises out of the transaction creating the interest of the mortgagee insured by this policy, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that is based on:
(i) the transaction creating the interest of the insured mortgagee being deemed a fraudulent conveyance or fraudulent transfer; or
(ii) the subordination of the interest of the insured mortgagee as a result of the application of the doctrine of equitable subordination; or
(iii) the transaction creating the interest of the insured mortgagee being deemed a preferential transfer except where the preferential transfer results from the failure:
(a) to timely record the instrument of transfer; or
(b) of such recordation to impart notice to a purchaser for value or a judgment or lien creditor.

7. AMERICAN LAND TITLE ASSOCIATION LOAN POLICY - 1992 WITH REGIONAL EXCEPTIONS

When the American Land Title Association policy is used as a Standard Coverage Policy and not as an Extended Coverage Policy the exclusions set forth in paragraph 6 above are used and the following exceptions to coverage appear in the policy.

SCHEDULE B

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of said land or by making inquiry of persons in possession thereof.
3. Easements, claims of easement or encumbrances which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by public records.
5. Unpatented mining claims; reservations or exceptions in patents or in Acts authorizing the issuance thereof; water rights, claims or title to water.
6. Any lien, or right to a lien, for services, labor or material theretofore or hereafter furnished, imposed by law and not shown by the public records.

8. AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY - 1992 EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
(b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims, or other matters:
(a) created, suffered, assumed or agreed to by the insured claimant;
(b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
(c) resulting in no loss or damage to the insured claimant;
(d) attaching or created subsequent to Date of Policy; or

(e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the estate or interest insured by this policy.

4. Any claim, which arises out of the transaction vesting in the insured the estate or interest insured by this policy, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that is based on:
(i) the transaction creating the estate or interest insured by this policy being deemed a fraudulent conveyance or fraudulent transfer; or
(ii) the transaction creating the estate or interest insured by this policy being deemed a preferential transfer except where the preferential transfer results from the failure:
(a) to timely record the instrument of transfer; or
(b) of such recordation to impart notice to a purchaser for value or a judgment or lien creditor.

9. AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY - 1992
WITH REGIONAL EXCEPTIONS

When the American Land Title Association policy is used as a Standard Coverage Policy and not as an Extended Coverage Policy the exclusions set forth in paragraph 8 above are used and the following exceptions to coverage appear in the policy.

SCHEDULE B

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:
Part One:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of said land or by making inquiry of persons in possession thereof.
3. Easements, claims of easement or encumbrances which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by public records.
5. Unpatented mining claims; reservations or exceptions in patents or in Acts authorizing the issuance thereof; water rights, claims or title to water.
6. Any lien, or right to a lien, for services, labor or material theretofore or hereafter furnished, imposed by law and not shown by the public records.

ALTA RESIDENTIAL TITLE INSURANCE POLICY (6-1-87)
EXCLUSIONS

In addition to the Exceptions in Schedule B, you are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of any law or government regulation. This includes building and zoning ordinances and also laws and regulations concerning:
   (a) and use
   (b) improvements on the land
   (c) and division
   (d) environmental protection

   This exclusion does not apply to violations or the enforcement of these matters which appear in the public records at Policy Date.
   This exclusion does not limit the zoning coverage described in Items 12 and 13 of Covered Title Risks.
2. The right to take the land by condemning it, unless:
   (a) a notice of exercising the right appears in the public records on the Policy Date
   (b) the taking happened prior to the Policy Date and is binding on you if you bought the land without knowing of the taking
3. Title Risks:
   (a) that are created, allowed, or agreed to by you
   (b) that are known to you, but not to us, on the Policy Date -- unless they appeared in the public records
   (c) that result in no loss to you
   (d) that first affect your title after the Policy Date -- this does not limit the labor and material lien coverage in Item 8 of Covered Title Risks
4. Failure to pay value for your title.
5. Lack of a right:
   (a) to any land outside the area specifically described and referred to in Item 3 of Schedule A OR
   (b) in streets, alleys, or waterways that touch your land
   This exclusion does not limit the access coverage in Item 5 of Covered Title Risks.

11. EAGLE PROTECTION OWNER'S POLICY

CLTA HOMEOWNER'S POLICY OF TITLE INSURANCE - 1998
ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE - 1998

Covered Risks 14 (Subdivision Law Violation). 15 (Building Permit). 16 (Zoning) and 18 (Encroachment of boundary walls or fences) are subject to Deductible Amounts and Maximum Dollar Limits of Liability

EXCLUSIONS

In addition to the Exceptions in Schedule B, you are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of any law or government regulation. This includes ordinances, laws and regulations concerning:
   a. building
   b. zoning
   c. land use
   d. improvements on the land
   e. land division
   f. environmental protection

   This exclusion does not apply to violations or the enforcement of these matters if notice of the violation or enforcement appears in the Public Records at the Policy Date.
   This exclusion does not limit the coverage described in Covered Risk 14, 15, 16, 17 or 24.
2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not apply to violations of building codes if notice of the violation appears in the Public Records at the Policy Date.
3. The right to take the Land by condemning it, unless:
   a. a notice of exercising the right appears in the Public Records at the Policy Date; or
   b. the taking happened before the Policy Date and is binding on You if You bought the Land without Knowing of the taking.
4. Risks:
   a. that are created, allowed, or agreed to by You, whether or not they appear in the Public Records;
   b. that are Known to You at the Policy Date, but not to Us, unless they appear in the Public Records at the Policy Date;
   c. that result in no loss to You; or
   d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.d, 22, 23, 24 or 25.
5. Failure to pay value for Your Title.
6. Lack of a right:
   a. to any Land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
   b. in streets, alleys, or waterways that touch the Land.
   This exclusion does not limit the coverage described in Covered Risk 11 or 18.

12. THIRD GENERATION EAGLE LOAN POLICY AMERICAN LAND TITLE ASSOCIATION EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (1/01/08)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to (i) the occupancy, use, or enjoyment of the Land; (ii) the character, dimensions, or location of any improvement erected on the Land; (iii) the subdivision of land; or(iv) environmental protection; or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
   (b)Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 5, 6, 13(c), 13(d), 14 or 16.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27 or 28); or
   (e) resulting in loss or damage which would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing business laws of the state where the Land is situated.
5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury, or any consumer credit protection or truth-in-lending law. This Exclusion does not modify or limit the coverage provided in Covered Risk 26.
6. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to Advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11.
7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching subsequent to Date of Policy. This Exclusion does not modify or limit the coverage provided in Covered Risk 11(b) or 25.
8. The failure of the residential structure, or any portion of it, to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This Exclusion does not modify or limit the coverage provided in Covered Risk 5 or 6.

13. AMERICAN LAND TITLE ASSOCIATION LOAN POLICY - 2006
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or

expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

   (i) the occupancy, use, or enjoyment of the Land;

   (ii) the character, dimensions, or location of any improvement erected on the Land;

   (iii) the subdivision of land; or

   (iv) environmental protection;

   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.

   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.

2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.

3. Defects, liens, encumbrances, adverse claims, or other matters

   (a) created, suffered, assumed, or agreed to by the Insured Claimant;

   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;

   (c) resulting in no loss or damage to the Insured Claimant;

   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or

   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.

4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.

5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.

6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is

   (a) a fraudulent conveyance or fraudulent transfer, or

   (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.

7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

14. AMERICAN LAND TITLE ASSOCIATION LOAN POLICY - 2006 WITH REGIONAL EXCEPTIONS

When the American Land Title Association policy is used as a Standard Coverage Policy and not as an Extended Coverage Policy the exclusions set forth in paragraph 13 above are used and the following exceptions to coverage appear in the policy.

SCHEDULE B

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.

15. AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY - 2006 EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

   (i) the occupancy, use, or enjoyment of the Land;

   (ii) the character, dimensions, or location of any improvement erected on the Land;

   (iii) the subdivision of land; or

   (iv) environmental protection;or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.

(b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.

2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.

3. Defects, liens, encumbrances, adverse claims, or other matters

(a) created, suffered, assumed, or agreed to by the Insured Claimant;

(b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;

(c) resulting in no loss or damage to the Insured Claimant;

(d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risks 9 and 10); or

(e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.

4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors rights laws, that the transaction vesting the Title as shown in Schedule A, is

(a) a fraudulent conveyance or fraudulent transfer; or

(b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.

5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

16. AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY - 2006 WITH REGIONAL EXCEPTIONS

When the American Land Title Association policy is used as a Standard Coverage Policy and not as an Extended Coverage Policy the exclusions set forth in paragraph 15 above are used and the following exceptions to coverage appear in the policy.

SCHEDULE B

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.

PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA)
USER QUESTIONNAIRE

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "*Brownfields Amendments*"), the *user of the Phase I ESA* must provide the following information (if available) to the *environmental professional*. Failure to provide this information could result in a determination that "*all appropriate inquiry*" is not complete.

Project Information	
Facility Name and Address:	Frontier: 5010 Alisa Canyon Road Irwindale, CA
Reason for the Phase I ESA:	Due Diligence
Type of Property:	Industrial
Site Owner and Contact Information:	See Below
Site Contact Name and Contact Information	Windolp A Wallace C: 949-246-3324 windolph.wallace@ftr.com
Tax Assessors Parcel Number (APN):	8417-025-800/ 8417-025-801 8417-026-801 8417-026-802

	Yes	No
1. Are you aware of any environmental cleanup liens against the subject property that are filed or recorded under federal, state, or local law?		✓
2. Are you aware of any activity use limitations, such as engineering controls (engineered caps, liners, treatment methods, etc.), land use restrictions, or institutional controls (administrative measures restricting groundwater use, construction, or property use, etc.) that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?		✓
3. Do you have any specialized knowledge or experience related to the subject property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the subject property so that you would have specialized knowledge of the chemicals or processes used by this type of business?		✓
4a. Does the purchase price being paid for the subject property reasonably reflects the fair market value of the subject property?	✓	
4b. If you conclude that there is a difference in fair market price, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?		✓
5. Are you aware of any commonly known or reasonably ascertainable information about the subject property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as a user,		✓
5 (a) Do you know of the past uses of the property?		✓
5 (b) Do you know of any specific chemicals that are present or were once present on the subject property?		✓
5 (c) Do you know of spills or other chemical releases that have taken place at the subject property?		✓

5 (d) Do you know of any environmental cleanups that have taken place at the subject property?		✓
6. As the user of this ESA, based on your knowledge and experience related to the subject property, are there any obvious indicators that point to the presence or likely presence of contamination at the subject property?		✓

If you answered "yes" to any of the questions (except 4a) above, please provide more detail below, or attach additional information to this document:

Name and title of person completing questionnaire: (Please Print)	
Jason Hines	
Signature of person completing questionnaire:	Date:
	1/30/14

APPENDIX C

PREVIOUS ENVIRONMENTAL REPORTS

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

Frontier Communications Corporation
Irwindale GWC
5010 Azusa Canyon Road
Irwindale, California 91706

December 19, 2016

Prepared for:

Masood Choudhury
Frontier Communications
Manager - Environmental, Health and Safety
280 S. Locust Street
Pomona, CA 91766

Prepared by:

ATC Group Services LLC
25 Cupania Circle
Monterey Park, California 10010

ATC
ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

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1.0 EXECUTIVE SUMMARY

1.1 General Information

Project Information:
Frontier Communications Corporation

Site Information:
Irwindale GWC
5010 Azusa Canyon Road
Irwindale, California 91706
Los Angeles County

Consultant Information:
ATC Group Services LLC
25 Cupania Circle
Monterey Park, California 10010
Telephone: (323) 517-9780
Fax: (323) 517-9781

Site Access Contact:
Mr. Stephen Odle
Frontier Communications Corporation

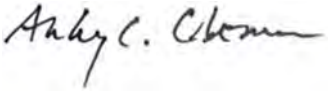
Client Information:
Masood Choudhury
Frontier Communications
Manager - Environmental, Health and Safety
280 S. Locust Street
Pomona, CA 91766
Telephone: 909-620-5962

Reconnaissance Date: October 26, 2016
Site Assessor: Steve W. Anderson
Senior Reviewer: Todd Stanford
Environmental Professionals: Steve W. Anderson
Todd Stanford

Environmental Professional Statement:
We declare that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in § 312.10 part of 40 CFR 312. We have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Steve Anderson, Staff Scientist
Site Assessor / Report Author
Environmental Professional

Todd Stanford, Principal Scientist
Senior Reviewer / Environmental Professional



Andy C. Coleman
Senior Reviewer / Environmental Professional
National Client/Branch Manager

1.2 Findings and Conclusions Summary

ATC has performed this Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Standard Practice E1527-13, and Frontier Communications Corporation's specific requirements. Any exceptions to, or deletions from, this practice are described in **Section 2.0** of this report. This Phase I ESA was completed in connection with a proposed sale and lease-back of the Property.

The Property consists of an irregularly-shaped parcel, approximately 10.52 acres in area, located at 5010 Azusa Canyon Boulevard. The Property is developed (starting in 1957) with a two-story office building, a supply warehouse, an automotive service building, truck wash station, various storage buildings, two former dispenser island canopies, facility truck yard and an employee parking lot.

This assessment has revealed one off-site and five on-site *recognized environmental conditions,* three (3) *historical recognized environmental conditions,* and one (1) *vapor encroachment condition* in connection with the Property. The following table provides a summary of findings of this Phase I ESA for the Property:

FINDINGS AND CONCLUSIONS SUMMARY						
Report Section		**Recognized and/or Controlled Environmental Condition (REC and/or CREC)**	**Historical Recognized Environmental Condition**	**De Minimis Condition**	**ASTM Non-Scope Condition**	**Description**
4.0	**Client Provided Information**		**X (1B, C, D)** **X(1E)** **X(1F)** **X(1G)**	**X(1I)**		(1) Frontier Communications provided the following documents: A. Phase II Diesel UST, 1985 B. Soil Gas Study, 1991 C. Replacement and Remediation Clarifier, 1992 D. Remediation North Dispenser, 1992 E. Phase II Diesel UST, 1993 F. Soil Gas Survey, 1995 G. UST Closure Report, 1996 H. UST Closure Report, 2009 I. Limited Phase II, 2001
5.1.1	**Federal Database Findings**	**X (2)**				(2) The Property is located within the boundaries of the San Gabriel Valley Area 2 NPL site (3) The Property is listed on the following databases: RCRA Small-Quantity Generator, FINDS, ECHO
5.1.2	**State and Tribal Database Findings**		**X (4A), same as Finding 1E,G** **X(4D), same as Findings 1B and 1C**			(4) The Property is listed on the following databases: A. LUST, Historical Cortese, RGA LUST B. UST, HIST UST, SWEEPS C. HMS D. WIP E. HAZNET
5.1.3	**Local Environmental Record Sources**	**X(5)**				(5) An air quality permit was issued in 1975 for a paint spray booth in an unknown location
	Physical Setting Sources					

FINDINGS AND CONCLUSIONS SUMMARY						
Report Section		**Recognized and/or Controlled Environmental Condition (REC and/or CREC)**	**Historical Recognized Environmental Condition**	**De Minimis Condition**	**ASTM Non-Scope Condition**	**Description**
5.3	**Historical Records Sources**					(6) The Property was partly agricultural and partly vacant prior to development with the current telephone service yard
6.2	**Hazardous Substance Use, Storage and Disposal**					
6.3	**Underground Storage Tanks (UST)**	**X(7)**	**X(8), same as 1D, E, G**			(7) Three previously unassessed 120-gallon subsurface hydraulic oil reservoirs are present on-site. Currently, there are three active in-ground lifts and five removed in-ground lift locations. Two aboveground lifts are in use at the Property. (8) USTs and/or dispensers with associated impacts removed in 1988, 1989, 1993, and 1996
6.4	**Aboveground Storage Tanks (AST)**					(9) One 500-gallon dual-compartment oil AST and two 60-gallon hydraulic oil ASTs on-site.
6.5	**Other Petroleum Products**					
6.6	**Polychlorinated Biphenyls (PCBs)**	**X(10),** *same as* **Finding 7**				(10) Five removed in-ground hydraulic lifts and three active hydraulic lifts located in the vehicle service building
6.7	**Unidentified Substance Containers**					(11) One old-appearing unlabeled drum observed without secondary containment
6.8	**Non-hazardous Liquid/Solid Waste**					
6.9	**Wastewater**	**X (12)**	**X (13), same as 1D and 1F**			(12) At least one and possibly two prior clarifiers were reportedly located inside the service building near a former steam cleaning area. (13) A former clarifier located west of the service building in the same location as the current clarifier was replaced and impacted soil was excavated and removed.
6.10	**Waste Pits, Ponds and Lagoons**					
6.11	**Sumps and Drains**					
6.12	**Septic Systems**		**X(14), same as 1F**			(14) Two former septic systems were present on-site. One was remediated as part of the WIP case, while the other served an office building that has since been demolished.
6.13	**Stormwater Management System**					
6.14	**Wells**					(15) The following types of wells are located on the Property: A. Three vapor monitoring wells are present.

FINDINGS AND CONCLUSIONS SUMMARY						
Report Section		Recognized and/or Controlled Environmental Condition (REC and/or CREC)	Historical Recognized Environmental Condition	De Minimis Condition	ASTM Non-Scope Condition	Description
		X(15B)				B. One dry well, formerly associated with a truck scale, was located beneath the current large storage building
6.15	Other					
7.0	Subsurface Vapor Migration					(16) Low level VOCs were identified in 1991 but left in-situ beneath the vehicle service building.
8.0	Interviews					
9.1	Asbestos-Containing Material (ACM)				X(17)	(17) Pipe wrap in the main office building was identified as ACM. Based on the construction date of the buildings (1957/1966), other ACM may be present
9.2	Radon					
9.3	Lead in Drinking Water					
9.4	Lead-Based Paint (LBP)				X (18)	(18) Based on the construction date of the buildings (1957/1966), LBP may be present.
9.5	Mold Screening				X (19)	(19) Some stained ceiling tiles noted in the main office building. No evidence of mold was observed.
9.6	Additional Client Requested Conditions					

1) ATC was provided with the following prior reports/documents from Frontier Communications:

A. Phase II Final Report – Irwindale Plant Yard, prepared by *McLaren Environmental Engineering (McLaren),* dated November 8, 1985.

This report presents the results of a subsurface investigation conducted adjacent to a 10,000-gallon diesel underground storage tank (UST) associated with the southern dispenser island and a precision tightness test conducted on a 10,000-gallon gasoline UST associated with the northern dispenser island. One boring was advanced to a depth of 15 feet, adjacent to the southern UST. Soil samples were collected at depths of 3.5 to 5.0 feet, 8.5 to 10.0 feet, and 13.5 to 15.0 feet and analyzed for petroleum hydrocarbons by infrared spectroscopy (IR). Petroleum hydrocarbons were detected at a maximum concentration of 30 milligrams per kilogram (mg/kg) in the deepest sample. The gasoline tank tested as tight. McLaren recommended performing a tightness test on the diesel tank and annual tests for both tanks thereafter.

B. Soil Gas Study Report, GTE Irwindale Site, Irwindale, California, Regional Board File No. AB108.0212, prepared by Camp Dresser & McKee, Inc. (CDM), and dated August 1991.

This report presents the results of a soil gas investigation with associated soil sampling, conducted in response to requests made by the Regional Water Quality Control Board (RWQCB) following an inspection in March 1991, which identified two principal areas of the Property requiring investigation. The investigation was part of an area-wide search by the RWQCB, under the Well Investigation Program (WIP), for Potentially Responsible Parties (PRPs) for the San Gabriel Valley Groundwater Basin (Area 2) National Priorities List (NPL) site, a region of where groundwater impacted with a number of industrial solvents and other compounds. The Property is located within the boundaries of the NPL

site. The first area identified by the RWQCB was the truck wash tunnel and steam cleaning bay, with associated drains and clarifier, and inactive cesspools and septic tanks. In particular, degradation was noted to the concrete of the western drain/sump of the wash tunnel and grouted portions of the clarifier. The second area consisted of certain bays within the eastern half of the service building that formerly contained a truck wash/steam clean area and at least one clarifier (Note: a set of plans observed at the Los Angeles County Department of Public Works (LACDPW) as well as a hand drawn diagram referenced two clarifiers in this second area. A total of 63 soil gas and four soil samples were collected and analyzed from 28 locations. Soil gas probe locations included the the above referenced vehicle washing, steam cleaning, and septic waste water system as well as the soap sump, and current and former hazardous waste storage enclosures. Soil gas probe depths ranged from four to eight feet below ground surface (bgs) due to the presence of cobbles and gravelly soils in the subsurface. Soil gas samples were analyzed for 1,1,1-trichloroethane (TCA, a compound previously identified in clarifier waste water), 1,1-dichloroethane, chloroethane, tetrachloroethane (PCA, erroneously referred to in the text as tetrachloroethene [PCE]), trichloroethene (TCE), and total volatile organic compounds (VOCs) by gas chromatograph. Soil samples were located in Area One near the rear of the steam cleaning area, the former cesspool within the truck wash tunnel, near the outflow of the clarifier, and in Area Two, adjacent to the estimated location of the former clarifier. Soil samples were analyzed for VOCs by EPA Methods 8010/8020 and total recoverable petroleum hydrocarbons (TRPH) by EPA Method 418.1. All soil samples had non-detectable concentrations of VOCs and only one, located near the Area One clarifier, had an elevated concentration of TRPH (11,000 mg/kg at a depth of 7.5 feet bgs). Soil gas readings indicated that TCA was detected in all samples at concentrations ranging from 0.05 micrograms per liter (µg/L) to 1.81 µg/L, with the maximum occurring near the clarifier inlet. Total VOCs ranged from 0.89 µg/L in a former waste storage area located near the northeastern corner of the truck wash tunnel to 215.1 µg/L near the clarifier outlet. The specific additional VOCs whose concentrations were summed to make up the "total" was not reported. No DCE or TCE was detected in any of the samples and low concentrations of chloroethane and PCA were in one sample each. The eastern area of investigation had TCA concentrations ranging from 0.13 µg/L to 1.12 µg/L, while total VOC concentrations ranged from 1.19 µg/L to 11.92 µg/L.

CDM recommended that the clarifier and surrounding TRPH-contaminated soil be removed and disposed of appropriately.

The RWQCB subsequently issued a provisional closure letter dated September 3, 1992 stating that no further action was required at that time with respect to the former septic tank and cesspool area, but reserved the possibility that additional investigation might be required in the future (which proved to be the case). A copy of that closure letter is included in **Appendix L**. Final closure was eventually achieved, as indicated by the succeeding reports and/or documents discussed below, and the soil impacts are considered to represent a *historical recognized environmental condition*; however, the identification of VOCs in soil vapors beneath the property in varying concentrations is considered to represent a *vapor encroachment condition* **(**see **Section 7.0** of this report**)**.

C. Site Assessment and Remediation Closure Report, Sand and Grease Interceptor, GTE-Irwindale Plant Yard, 5010 North Azusa Canyon Road, Irwindale, California, prepared by CDM and dated November 24, 1992.

This report documents a number of activities including the removal of a two-stage clarifier located north of the truck wash tunnel and replacement with a three-stage clarifier utilizing a geomembrane secondary containment and epoxy coating of interior surfaces, the removal of a septic tank system located a short distance to the northeast of the clarifier, the removal and replacement of two drains (one in the steam cleaning bay and the other within the truck wash tunnel), and collection of soil samples for analysis from the excavations of the clarifier, septic tank and estimated cesspool areas. Soils identified as impacted through field screening were excavated.

A total of 47 tons of impacted soil was removed from a broad area between the steam cleaning drain and the outlet of the clarifier. Confirmation samples from the bottom of the excavation were collected

from locations specified by the RWQCB representative and analyzed for halogenated and aromatic VOCs by EPA Methods 8010 and 8020, as well as TRPH by EPA Method 418.1. Apart from one sample from beneath the septic tank, which reportedly contained 11 mg/kg of chloromethane and 24 mg/kg of 1,4-dichlorobenzene, no VOCs were detected in the confirmation samples, and TRPH concentrations ranged from non-detect to 27 mg/kg, or well below the target clean-up level of 100 mg/kg. An addendum letter dated February 9, 1993 was observed by ATC during our review of RWQCB files for the Property that corrected the units reported for the VOC concentrations to micrograms per kilogram (µg/kg).

Based on the results, CDM requested that the RWQCB approve closure for the investigated area. In a letter dated January 20, 1993, the RWQCB responded that due to the sampling method employed (glass jars filled with a hand trowel), the VOC concentrations detected were likely to be low and not representative of site conditions. Nonetheless, the RWQCB provisionally stated that no further action was required at that time, but indicated that additional investigation might be required. A copy of the January 20, 1993 letter is included in **Appendix L**. On April 1, 1993, the LACDPW issued a joint closure letter for this investigation and for the following report dated December 2, 1992, a copy of which is included in **Appendix L**.

D. Site Assessment and Remediation Closure Report, Gasoline Pump Island, GTE-Irwindale Plant Yard, 5010 North Azusa Canyon Road, Irwindale, California, prepared by CDM and dated December 2, 1992.

This report documents soil excavation efforts to remediate soils beneath the northern dispenser island in 1992. On January 4, 1992, CDM collected a soil sample beneath the gasoline dispenser island, which was then analyzed for the fuel constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX). The analysis revealed BTEX concentrations of 14, 75, 68, and 620 micrograms per kilogram (µg/kg), respectively. To remediate these impacts, an area approximately ten feet by ten feet was excavated beneath, and along the northern side of the dispenser island to an approximate depth of eight feet. Sidewall samples were analyzed for BTEX and total extractable petroleum hydrocarbons as gasoline (TPHg). The bottom sample was analyzed for BTEX only. All samples had non-detectable concentrations of the analytes.

CDM recommended that the LACDPW issue a closure letter for the northern pump area. As previously stated, on April 1, 1993, the LACDPW issued a joint closure letter for this investigation and for the preceding report dated November 24, 1992, a copy of which is included in **Appendix L**.

E. Additional Site Assessment of Diesel Pump Island, GTE – Irwindale Plant Yard, Irwindale, California, prepared by CDM and dated February 4, 1993.

This report documents the result of a limited subsurface investigation consisting of a single boring advanced along the northern side of the south pump island at the Property. Soil samples were collected at depths of 12 and 17 feet bgs and analyzed for BTEX and total extractable petroleum hydrocarbons as diesel (TPHd). Both samples had non-detectable concentrations of all analytes. CDM recommended that regulatory closure for the southern pump island should be requested from the LACDPW. What appears to be a closure letter for this former diesel UST removed in 1989 (and possibly intended to include the former gasoline UST removed in 1988 under the same permit) was issued by the LACDPW on May 6, 1993. A copy of that letter is included in **Appendix L**.

F. Report of Soil Gas Investigation, GTE-Irwindale Plant Yard, 5010 North Azusa Canyon Road, Irwindale, California, prepared by CDM and dated November 9, 1995.

In May of 1995, the RWQCB requested additional soil gas sampling in the vicinity of the former clarifier inlet and former septic tanks. In September 1995, vapor well VW-1 was advanced to a depth of 19 feet bgs a short distance northeast of the clarifier inlet and vapor well VW-2 was advanced to a depth of 20 feet bgs, and was located west of the former septic tanks. Two soil vapor probes were placed in each

well at approximate ten-foot intervals. Vapor samples were analyzed for VOCs by an on-site mobile laboratory. No VOCs were detected in any of the soil vapor samples collected. CDM requested that the RWQCB grant closure for the former clarifier/septic tank areas. The RWQCB determined that the work performed to that point had adequately evaluated the VOC contamination and that no further action was required with regard to the San Gabriel Valley Cleanup Program (i.e., WIP) and issued a letter to that effect dated June 5, 1998, a copy of which is included in **Appendix L**. However, the RWQCB did caution that other agencies such as the USEPA were not bound by this letter and could make their own determination regarding the Property. Accordingly, while the WIP case file is considered to represent a *historical recognized environmental condition*, the presence of the Property within the National Priorities List (NPL) site boundary is still considered to represent a *recognized environmental condition*.

G. Report, Environmental Investigation Related to the Removal of Two Underground Storage Tanks, prepared by Environmental Resolutions, Inc. (ERI), dated August 7, 1996.

This report documents the removal of a 12,000-gallon gasoline UST located near the northern dispenser island and a 1,000-gallon waste oil UST located at a point farther to the east along the southern side of the vehicle maintenance building. Both USTs were removed on January 19, 1996, along with the dispenser island. Neither tank was reported to have holes. Soil samples collected in connection with the gasoline UST were analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8015M and BTEX compounds by EPA Method 8020. Soil samples collected from the waste oil excavation were analyzed for TRPH by EPA Method 418.1. Low concentrations of TPH, ethylbenzene, and total xylenes of 34 mg/kg, 0.15 mg/kg, and 0.18 mg/kg, respectively, were detected in a sample collected from the stockpile, but no residual impacts were identified in the samples collected directly from the excavation, piping, or dispenser areas. Low levels of TRPH (10-21 mg/kg) were detected at each end of the waste oil tank. ERI concluded that no further work was necessary. The LACDPW issued a closure letter for the UST removals dated November 26, 1996, a copy of which is included in **Appendix L**.

In February 1996, a replacement 12,000-gallon gasoline UST was installed in essentially the same location as the first along with a new dispenser island and canopy. The waste oil UST was replaced at the same time with a dual-compartment aboveground storage tank (AST) for the storage of both new oil and waste oil that is currently located on-site at the western end of the service building.

H. Underground Storage Tank Removal Report, Verizon – Irwindale Fleet Yard, GLC 071207B, 5010 Azusa Canyon Road, Irwindale, California, prepared by Shaw Environmental, Inc. (Shaw), and dated June 2009.

This report documents the activities and soil sampling results in connection with the removal of a 12,000-gallon gasoline UST from the vicinity of the northern dispenser island. The UST was removed on May 20, 2009. Confirmation samples from the excavation and stockpile were analyzed for TPHg and TPHd by EPA Method 8015B Modified, BTEX compounds and fuel oxygenates by EPA Method 8260B. All samples had non-detectable concentrations of all analytes. Shaw recommended no further action.

The LACDPW issued a closure letter for the UST removal dated December 3, 2015, a copy of which is included in **Appendix L**. Since no releases were identified, this UST closure does not represent either a *recognized environmental condition* or a *historical recognized environmental condition*.

I. Limited Focused Phase II Site Assessment, Site: Verizon Irwindale Plant Yard, 5010 Azusa Canyon Rd, Irwindale, CA 91706-1884, prepared by Hydrologue Inc., and dated November 26, 2001.

This report documents the results of a limited subsurface investigation on the northeastern portion of the employee parking lot, where it was observed that runoff originating from the east-adjacent industrial park at 15558-15562 Arrow Highway was flowing onto the Property. The report did not specify whether

the runoff was from stormwater or some other activity. Four shallow borings were advanced to an approximate depth of one foot in the area affected by the runoff. Soil samples were analyzed for TRPH, VOCs, chromium and lead. TRPH was detected in all four shallow samples at concentrations ranging from 12 to 34 mg/kg. Chromium concentrations ranged from 10.3 to 20.2 mg/kg. Lead concentrations ranged from 5.16 to 7.47 mg/kg. No VOCs were detected. Hydrologue concluded that the hydrocarbon contamination in the samples appeared to have originated from the runoff from the adjacent industrial park. No comment was offered by Hydrologue regarding the metal concentrations. Hydrologue recommended that Verizon contact the adjacent property to improve its housekeeping practices and discontinue any industrial discharge. Hydrologue also recommended advancing four additional soil borings to a depth of 20 feet to collect background samples to compare with those from the area affected by the runoff. ATC does not know whether or not the recommendations were adopted; however, during the site reconnaissance, ATC did not observe suspicious staining in the employee parking lot near the location where the four shallow borings were advanced. ATC considers this finding to be an offsite potential environmental concern.

2) The Property is located within the boundary of the San Gabriel Valley Groundwater Basin (Area 2) NPL site, a region where groundwater is impacted with various volatile organic compounds (VOCs). According to a plume map accompanying the 2015 Annual Performance Evaluation Report for the NPL site, total combined concentrations for all Contaminants of Concern (COCs) beneath the Property range between the maximum contaminant levels (MCLs) and five-times the MCLs. The principal contaminant in the groundwater beneath the Property is depicted as perchlorate, the MCL of which is 6.0 micrograms per liter (µg/L). Perchlorate does not appear to have been used on the Property. Nonetheless, the presence of impacted groundwater is considered to represent a *recognized environmental condition*.

3) The Property is listed as a Resource Conservation Recovery Act (RCRA) Small-Quantity Generator (SQG) of hazardous waste. The wastes listed for the more recent occupant, Frontier, were described as Ignitable wastes. The wastes for the historical generator, Verizon, were described as ignitable, corrosive, and reactive materials, benzene, tetrachloroethylene, and various halogenated solvent mixtures. No violations were reported. The Property is also listed on the Facility Index System (FINDS) database and the Environmental Compliance History Online (ECHO) website, neither of which reported releases or violations. Based on the absence of violations, the federal database listings for the Property do not represent a *recognized environmental condition*.

4) The Property was identified on several state or local regulatory databases including the following listings:

   A. The Property is listed on as a leaking underground storage tank (LUST) site on the LUST, Historical Cortese, and Recovered Government Archives (RGA) LUST databases. The LUST database listing appears to refer to a soil-only release associated with a former diesel UST that achieved closure in 1996 (discussed above in client-provided prior reports, **Findings 1A and 1E**). The Historical Cortese database and RGA LUST database listings provide no relevant added details. This particular release is considered to represent a *historical recognized environmental condition*.

   B. The Property is listed as a registered UST facility on the UST, Historical UST (HIST UST), and Statewide Environmental Evaluation and Planning System (SWEEPS) databases. The various UST listings provided no relevant details regarding the USTs in question. No active USTs are believed to remain on the Property.

   C. The Property is listed as on the LACDPW HMS list, which simply indicates that case files for UST removals and/or industrial waste discharge permits are on file and available for review. EDR did not provide information on the contents of the files, which ATC did review and are discussed in **Section 5.1.3** of this report.

   D. The Property is listed as a Well Investigation Program (WIP) site. WIP was a program to identify potentially responsible parties (PRPs) for the NPL site (within the boundaries of which, the Property

was located). In general, the scope of work required for WIP investigations ranged from completion and submittal of a chemical use questionnaire to the conducting of a subsurface investigation. At the request of the Regional Water Quality Control Board (RWQCB), a subsurface investigation was conducted at the Property in certain identified areas of concern, including damaged and undamaged clarifiers, steam cleaning operations, drains, and a septic system. Impacted soil was discovered and remediated. Regulatory closure was granted for the WIP investigation by the RWQCB and the Property was not named as a PRP. A copy of the closure letter, dated June 5, 1998, is included in **Appendix L**. ATC concludes this listing is a *historical recognized environmental condition* as discussed in **Findings 1B and 1C**.

E. The Property appears on the Facility and Manifest Data (HAZNET) list, as a facility that generates, or has generated, manifested waste. The wastes generated were reported as laboratory waste chemicals, other organic solids, off-specification, aged, or surplus organics, unspecified oil-containing waste, pharmaceutical waste, oil/water separation sludge, and aqueous solutions with total organic residues of less than 10 percent. Apart from the reference to laboratory waste and pharmaceutical waste, which appear to be erroneous listings, the wastes generated appear to be typical for the Property. HAZNET does not track violators and the presence of a facility on this database does not necessarily indicate that a problem exists at that facility. Based on the wastes generated, the appearance of the Property on the HAZNET database is not considered to represent a *recognized environmental condition.*

5) The South Coast Air Quality Management District (SCAQMD) had a record of a permit issued in 1975 for a paint spray booth. An image of the 1975 permit was available online, which identified the manufacturer as Binks, and the dimensions as 7'8" wide, 7" high, and 8'8" deep and indicated that the booth utilized one exhaust fan. No renewal permits were observed and it may have been present for a limited time; however, given the time-frame of its use, it is possible that chlorinated solvents were used in connection with the booth. The former spray booth is considered to represent a *recognized environmental condition*; however, its former location is unknown. A large spray booth used as a storage building (for non-chemical items) was observed on-site along the east property line. As the manufacturer, dimensions, and number of exhaust fans on this spray booth do not match those cited on the permit, and early site plans for the Property reviewed at the LACDPW note the continual presence of a shed in the same location, ATC considers it unlikely that this spray booth is the one referenced in the 1975 SCAQMD permit.

6) The historical use of the Property consisted primarily of vacant land with portions under cultivation. Circa 1957, the first structures of the current facility were constructed. Given the past agricultural use, there is some potential for environmentally persistent pesticides and herbicides to be present in the subsurface. However, given the amount of grading and mixing accompanying the development of the Property along with the fact that the entire Property is essentially paved, it is unlikely that former pesticide and/or herbicide use would present a hazard to occupants, or otherwise impact the current use of the Property.

7) The access plates for three subsurface 120-gallon hydraulic oil reservoirs are present along the southern exterior of the vehicle service building. Given that approximately five of the former in-ground hydraulic hoists have been removed, and aboveground hydraulic oil tanks appear to be serving the three active in-ground hydraulic oil lifts on-site, it is assumed that the subsurface reservoirs, if present, are not in use. However, as they do not appear to have been previously assessed, the hydraulic oil reservoirs are considered to represent a *recognized environmental condition*. The seven lift locations are depicted on **Figure 3 C** (Note that in one instance an active and inactive lift location occupy the same bay). Given the lack of subsurface testing and/or maintenance data demonstrating the absence of leaks, the seven in-ground hoist locations are considered to represent a *recognized environmental condition.*

8) At least five prior USTs have been present on-site as discussed in **Finding 1**. It is possible that at least one earlier UST to any of the above was present on-site, as a January 1957 building permit for a "gas

pump canopy" was observed in building department files. If the associated UST(s) represents an earlier generation than that of the 10,000-gallon gasoline UST removed in November of 1988 (the earliest known with certainty), then no indication of its former location has been identified. As this suggestion of an earlier UST cannot be confirmed, it is considered to be a potential environmental concern but does not rise to the level of a *recognized environmental condition*.

9) One 500-gallon dual-compartment aboveground storage tank (AST) is located on the western side of the vehicle service building within a shallow drip-containment berm. One compartment is used for new oil and the other for waste oil. In addition, located within the service building are two small hydraulic oil ASTs, estimated to be approximately 60 gallons each. The hydraulic oil ASTs are used in connection with the two active in-ground hydraulic lifts located within the garage. No releases were observed in connection with the Property ASTs and they are not considered to represent a *recognized environmental condition*.

10) Approximately five former in-ground hydraulic hoist locations and three active in-ground hoists are present in the service building. Two active aboveground hoists are present as well. Based on the pre-1979 age of the Property improvements, it is possible that the former hydraulic hoists have utilized hydraulic fluids containing polychlorinated biphenyls (PCBs). Given the lack of subsurface testing and/or maintenance data demonstrating the absence of leaks, the seven in-ground hoist locations are considered to represent a *recognized environmental condition* as discussed in **Finding 7**. Other potential sources of PCBs such as utility-owned transformers or fluorescent light ballasts may be present, but as there is no indication of a release from these sources and the transformers are the responsibility of Southern California Edison, other potential PCB sources are not considered to represent a *recognized environmental condition*.

11) ATC observed one old-appearing unlabeled 55-gallon drum on the northeastern exterior side of the large storage building. Based on the weight of the drum, it was not empty, although its contents are unknown. The drum sitting on concrete and was not within secondary containment; however, there was no observed evidence of associated staining. Based on the apparent absence of releases from the drum, the drum is not considered to represent a *recognized environmental condition*.

12) According to various sources, at least one, and possibly two, clarifiers were formerly located inside the vehicle service building, approximately mid-way between the eastern and western ends, in what was once a steam cleaning area. A set of plans observed at the LACDPW references the two "sand traps" to be removed, and a second hand-drawn plat observed at the LACDPW depicted two sand traps as being "abandoned" (presumably in place), although prior reports typically depict only one. No trace of the former clarifier(s) is visible as the room has been converted into an office, and the floor finished with suspect asbestos-containing 9" x 9" floor tile. As part of the initial WIP investigation, one soil boring was advanced in 1991 to a depth of five feet alongside the clarifier (only one was identified at that time) and two soil gas samples were collected near the estimated inlet at depths of four feet and six feet, four inches. The soil sample identified no VOCs but detected 10 mg/kg of TRPH. The two soil gas samples contained total VOC concentrations ranging from 4.85 to 8.94 µg/L. While these laboratory results are comparatively low, ATC does not believe that the clarifier or clarifiers were adequately assessed. ATC considers the clarifier(s) in the former steam cleaning area to be a *recognized environmental condition.*

13) A two-stage clarifier with identified deterioration and associated impacted soils was removed in 1992 from its location on the north side of the truck wash tunnel and replaced with the current three-stage clarifier (utilizing a geomembrane and interior sealant). The impacted soils were excavated and regulatory closure was granted by the RWQCB on January 20, 1993 and the LACDPW on April 1, 1993. The former clarifier and associated impacts are considered to be a *historical recognized environmental condition* as discussed in **Finding 1D and 1F**.

14) Two septic systems were formerly located at the Property. The first was located north of the current truck wash tunnel, which consisted of two 900-gallon septic tanks arranged end-to-end and two associated cesspools. The other septic system consisted of six septic tanks arranged in two end-to-

end rows of three each and five associated cesspools. The first septic system was among the areas assessed in the WIP investigation, and was granted regulatory closure. The second septic system does not appear to have been previously assessed; however, given that it served an office building formerly located farther to the south and out of the investigation area, it is not considered to represent an environmental concern to the Property.

15) Three vapor monitoring wells are located between the eastern end of the clarifier and extending to the northeast where the former septic tanks were located. The wells reportedly extend to an approximate depth of 20 feet. Soil gas samples collected from the wells in 1995 had no detectable concentrations of VOCs. The soil gas sampling report **(see Section 5.3.9)** indicated that only two wells were installed and sampled, but three are present on-site. It is not known when the third well was installed. While the vapor monitoring wells are not considered to represent a *recognized environmental condition*, these wells should be abandoned in accordance with applicable standards and regulations unless they serve a useful purpose or are required to be maintained through a regulatory directive.

    A 1956 site plan observed in the LACDPW file references the installation of a dry well at the Property. The well is shown on the plan as connected to a truck scale that was formerly located on the east side of the Property adjacent to the south of the current large storage building. Presumably the well was used to drain rain water that might have seeped into the cavity beneath the scale. It is possible that oil and grease may have been discharged to the subsurface through the well. The well was shown in a detail as extending from 3 feet six inches below the surface to a depth of 9 feet six inches. ATC estimated from the plan that the well was approximately 25 feet north of the truck scale, which would place it beneath the large storage building (constructed later in 1966). The truck scale was removed at an unknown date, but it is assumed that the drywell is likely still present. Because of the former potential for discharging petroleum products to the subsurface, the former dry well is considered to represent a *recognized environmental condition*.

16) A soil gas survey conducted at the Property by in 1991 **(see Finding 1B)** identified relatively low levels of total VOCs at depths of four and eight feet bgs in areas beneath the central portion and western side of the vehicle maintenance building that do not appear to have been remediated. Remnant vapors beneath the building at shallow depths are considered to represent a *vapor encroachment condition*. Given that the RWQCB chose to exclude these areas from required remediation, the remnant vapors are not considered to represent a *recognized environmental condition*.

17) ATC conducted a limited visual survey for the presence of readily accessible suspect asbestos-containing materials (ACM) within the Property buildings. Suspect materials observed during the course of the survey included wallboard/joint compound, baseboard, resilient floor tiles (12”x12” and 9”x9”), resilient sheet flooring, acoustical ceiling panels, and thermal system insulation (pipe wrap). The pipe wrap, located in the heating, ventilation, and air conditioning (HVAC) room on the ground floor of the main office, has a warning label indicating that it was known to contain asbestos. The site escort, Mr. Mark Norton of Frontier, indicated that he had no knowledge of an asbestos Operations and Maintenance (O&M) plan at the facility. Suspect materials were observed in fair to good condition. While not a concern under typical operations, ACM would be considered an environmental concern should renovation or demolition activities occur. Asbestos is outside the scope of work of ASTM Practice E 1527-13, and therefore is not considered a *recognized environmental condition*.

18) Based on the construction dates of the Property improvements (1957-1966), it is possible that lead-based paint (LBP) has been used on the Property in the past. Painted surfaces appeared to be in generally good condition. While not a concern under typical operations, LBP would be considered an environmental concern should renovation or demolition activities occur. LBP is outside the scope of ASTM Practice E 1527-13; therefore, the potential presence of LBP is not considered to represent a *recognized environmental condition*.

19) ATC conducted a screening survey for mold conditions at the Property. The screening consisted of limited interview, document review (if applicable) and physical observation. ATC spoke with Mr. Mark

Norton, Building Services Specialist at the Property for approximately one year. Mr. Norton indicated that there have been no roof leaks or significant water-intrusion events within the time he was associated with the Property. Furthermore, Mr. Norton could not recall previous mold occurrences at the Property or prior surveys for mold. Accordingly, there was no prior mold documentation for ATC to review. During the site reconnaissance, ATC did not observe suspect mold at the Property or, apart from occasional water stains on acoustical ceiling panels on the first floor of the office, indications of current or former water intrusion events conducive to mold growth. Mold is outside the scope of ASTM Practice E 1527-13, and therefore the potential for mold is not considered to represent a *recognized environmental condition*.

1.3 Significant Data Gap Summary

The following is a summary of *significant data gaps* identified in this report.

SIGNIFICANT DATA GAP SUMMARY		
Report Section		**Description**
3.5	**Current Uses of Adjoining Properties**	No *significant data gap* identified.
4.2	**Environmental Liens or Activity and Use Limitations (AULs)**	No *significant data gap* identified.
5.1	**Standard Environmental Records**	No *significant data gap* identified.
5.2	**Physical Setting Sources**	No *significant data gap* identified.
5.3	**Historical Records Sources**	No *significant data gap* identified.
6.1	**Methodology and Limiting Conditions**	No *significant data gap* identified.
8.0	**Interviews**	No *significant data gap* identified.

2.0 INTRODUCTION

2.1 Purpose

The purpose of this Phase I ESA was to identify recognized environmental conditions in connection with the Property at the time of the site reconnaissance. The scope of work for this Phase I ESA may also include certain potential environmental conditions beyond the scope of ASTM Standard Practice E1527-13 as listed below. This report documents the findings, opinions and conclusions of the Phase I ESA.

2.2 Scope

This Phase I ESA was conducted in general accordance with the ASTM Standard Practice E1527-13, consistent with a level of care and skill ordinarily practiced by the environmental consulting profession currently providing similar services under similar circumstances. Significant additions, deletions or exceptions to ASTM Standard Practice E1527-13 are noted below or in the corresponding sections of this report. The scope of this assessment included an evaluation of the following:

- Physical setting characteristics of the Property through a review of referenced sources such as topographic maps and geologic, soils and hydrologic reports.

- Usage of the Property, adjoining properties and surrounding area through a review of referenced historical sources such as land title records, fire insurance maps, city directories, aerial photographs, prior reports and interviews.

- Observations and interviews regarding current Property usage and conditions including: the use, treatment, storage, disposal or generation of hazardous substances, petroleum products, hazardous wastes, nonhazardous solid wastes and wastewater.

- Usage of adjoining and surrounding area properties and the likely impact of known or suspected releases of hazardous substances or petroleum products from those properties in, on or at the Property.

- Information in referenced environmental agency databases and local environmental records, within the specified approximate minimum search distance from the Property.

- Potential for subsurface vapor migration in, on or at the Property as described in **Section 7.0**.

The scope of the assessment also included consideration of the following potential environmental issues or conditions that are beyond the scope of ASTM Standard Practice E1527-13:

- Visual observation of suspect asbestos-containing materials (ACM), consisting of providing an opinion on the condition of suspect ACM on the Property based upon visual observation during the site reconnaissance. No sampling of suspect ACM was conducted.

- Visual observation of Lead-based paint (LBP), consisting of providing an opinion on the potential for suspect LBP based on the construction date of buildings on the Property and visual observation of the condition of suspect LBP.

- Radon document review, consisting of the review of published radon data with regard to the potential for elevated levels of radon gas in the surrounding area of the Property. No radon sampling was conducted.

- Lead in Drinking Water Data review, consisting of contacting the water supplier for information regarding whether or not the potable water provided to the Property meets the drinking water standards for lead.

- The scope of work for the Mold Screening was intended to be consistent with ASTM E 2418-06: Standard Guide for Readily Observable Mold and Conditions Conducive to Mold in Commercial Buildings: Baseline Survey Process. The scope of work, including potential deviations from the Standard Guide, is described as follows. The interview was limited to at least one knowledgeable person from Property management or engineering staff. The document review was limited to only those relevant documents made readily available to ATC in a timely manner. The physical observations were limited to certain Heating, Ventilation and Air Conditioning (HVAC) system areas and other readily accessible building areas likely to become subject to water damage, plumbing leaks, and flooding. Unless noted otherwise herein, ATC observed the HVAC equipment room(s) and accessible mechanical rooms and, in buildings with package units in the ceiling, at least one unit per floor. Also, unless noted otherwise, ATC observed accessible areas of the basement (or lowest level), the top floor, the roof (including any penthouse areas) and at least one mid-level floor (if applicable). For multi-story buildings, the total number of floors observed (inclusive of those already mentioned) was intended to be up to 10% of the total number of floors (if readily accessible). The Mold Screening did not include destructive methods of observation. No sampling or laboratory analyses were conducted. The Mold Screening service as described herein was limited in scope and by the time and cost considerations typically associated with performing a Phase I ESA. No method can guarantee that a hazard will be discovered if evidence of the hazard is not encountered within the performance of the Mold Screening as authorized and that opinions and conclusions must, out of necessity, be extrapolated from limited information and discrete, non-continuous data points. Unidentified mold or other microbial conditions may exist on the Property.

- Wetlands document review, consisting of a review of a current National Wetlands Inventory map of the surrounding area to note if the Property is identified as having a wetland.

- Flood plain document review, consisting of a review of a reasonably ascertainable flood plain map of the surrounding area to note if the Property is identified as being located within a flood plain.

2.3 Significant Assumptions

Any assumptions in this report were not considered as having significant impact on the determination of *recognized environmental conditions* associated with the Property.

2.4 Limitations and Exceptions

ATC has prepared this Phase I ESA report using reasonable efforts to identify *recognized environmental conditions* associated with hazardous substances or petroleum products in, on or at the Property. Findings contained within this report are based on information collected from observations made on the day(s) of the site reconnaissance and from reasonably ascertainable information obtained from certain public agencies and other referenced sources.

The ASTM Standard Practice E1527-13 recognizes inherent limitations for Phase I ESAs, including, but not limited to:

- *Uncertainty Not Eliminated* – A Phase I ESA cannot completely eliminate uncertainty regarding the potential for *recognized environmental conditions* in connection with any Property.

- *Not Exhaustive* – A Phase I ESA is not an exhaustive investigation of the Property and environmental conditions on such Property.

- *Past Uses of the Property* – Phase I requirements only require review of standard historical sources at five year intervals. Therefore, past uses of Property at less than five year intervals may not be discovered.

Users of this report may refer to ASTM Standard Practice E1527-13 for further information regarding these and other limitations. This report is not definitive and should not be assumed to be a complete and/or specific definition of all conditions above or below grade. Current subsurface conditions may differ from the conditions determined by surface observations, interviews and reviews of historical sources. The most reliable method of evaluating subsurface conditions is through intrusive techniques, which are beyond the scope of this report. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other Property construction purposes. Any use of this report by any party, beyond the scope and intent of the original parties, shall be at the sole risk and expense of such user.

ATC makes no representation or warranty that the past or current operations at the Property are, or have been, in compliance with all applicable federal, state and local laws, regulations and codes. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated. Regardless of the findings stated in this report, ATC is not responsible for consequences or conditions arising from facts not fully disclosed to ATC during the assessment.

An independent data research company provided the government agency database referenced in this report. Information on surrounding area properties was requested for approximate minimum search distances and is assumed to be correct and complete unless obviously contradicted by ATC's observations or other credible referenced sources reviewed during the assessment. ATC shall not be liable for any such database firm's failure to make relevant files or documents properly available, to properly index files, or otherwise to fail to maintain or produce accurate or complete records.

ATC makes no warranty, guarantee or certification regarding the quality, accuracy or reliability of any prior report provided to ATC and discussed in this Phase I ESA report. ATC expressly disclaims any and all liability for any errors or omissions contained in any prior reports provided to ATC and discussed in this Phase I ESA report.

ATC used reasonable efforts to identify evidence of aboveground and underground storage tanks and ancillary equipment on the property during the assessment. "Reasonable efforts" were limited to observation of accessible areas, review of referenced public records and interviews. These reasonable efforts may not identify subsurface equipment or evidence hidden from view by things including, but not limited to, snow cover, paving, construction activities, stored materials and landscaping.

Any estimates of costs or quantities in this report are approximations for commercial real estate transaction due diligence purposes and are based on the findings, opinions and conclusions of this assessment, which are limited by the scope of the assessment, schedule demands, cost constraints, accessibility limitations and other factors associated with performing the Phase I ESA. Subsequent determinations of costs or quantities may vary from the estimates in this report. The estimated costs or quantities in this report are not intended to be used for financial disclosure related to the Financial Accounting Standards Board (FASB) Statement No. 143, FASB Interpretation No. 47, Sarbanes/Oxley Act or any United States Securities and Exchange Commission reporting obligations, and may not be used for such purposes in any form without the express written permission of ATC.

ATC is not a professional title insurance or land surveyor firm and makes no guarantee, express or implied, that any land title records acquired or reviewed in this report, or any physical descriptions or depictions of the Property in this report, represent a comprehensive definition or precise delineation of property ownership or boundaries.

The Environmental Professional Statement in **Section 1.1** of this report does not "certify" the findings contained in this report and is not a legal opinion of such *Environmental Professional*. The statement is intended to document ATC's opinion that an individual meeting the qualifications of an Environmental Professional was involved in the performance of the assessment and that the activities performed by, or under the supervision of, the *Environmental Professional* were performed in conformance with the standards and practices set forth in 40 CFR Part 312 per the methodology in ASTM Standard Practice E1527-13 and the scope of work for this assessment.

Per ASTM Standard Practice E1527-13, **Section 6**, User Responsibilities, the User of this assessment has specific obligations for performing tasks during this assessment that will help identify the possibility of *recognized environmental conditions* in connection with the Property. Failure by the User to fully comply with the requirements may impact their ability to use this report to help qualify for *Landowner Liability Protections* (LLPs) under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). ATC makes no representations or warranties regarding a User's qualification for protection under any federal, state or local laws, rules or regulations.

In accordance with the ASTM Standard Practice E1527-13, this report is presumed to be valid for a six month period. If the report is older than six months, the following information must be updated in order for the report to be valid: (1) regulatory review, (2) site visit, (3) interviews, (4) specialized knowledge and (5) environmental liens search. Reports older than one year may not meet the ASTM Standard Practice E1527-13 and therefore, the entire report must be updated to reflect current conditions and Property-specific information.

Other limitations and exceptions that are specific to the scope of this report may be found in corresponding sections.

2.5 Special Terms and Conditions (Client Reliance)

This report is for the use and benefit of, and may be relied upon by, Frontier Communications (Client), and any of its affiliates, and third parties authorized in writing by Client and ATC, including the lender(s) in connection with a secured financing of the Property, and their respective successors and assigns. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, and with the acknowledgment that actual site conditions may change with time, and that hidden conditions may exist at the Property that were not discovered within the authorized scope of the assessment. Any use by or distribution of this report to third parties, without the express written consent of ATC, is at the sole risk and expense of such third party.

ATC makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either express or implied. Unless otherwise agreed upon in writing by ATC and a third party, ATC's liability to any third party authorized to use or rely on this report with respect to any acts or omissions shall be limited to a total maximum amount of $100,000.

3.0 SITE DESCRIPTION

3.1 Location and Legal Description

The Property consists of an irregularly-shaped parcel, approximately 10.52 acres in area, located at 5010 Azusa Canyon Boulevard. The Property is developed with a two-story office building, a supply warehouse, an automotive service building, truck wash station, various storage buildings, two former dispenser island canopies, facility truck yard and an employee parking lot **(Photographs 1-6)**. The legal description of the Property consists of a lengthy metes-and-bounds description representing a portion of the northwest quarter of Section 9 in Township 1 South, Range 10 West, San Bernardino Base and Meridian. Copies of the legal descriptions of the four parcels comprising the Property are included with four lien search reports obtained for this ESA (see **Section 4.2**) and included in **Appendix L**. The Assessor's Parcel Numbers for the property are 8417-025-800 and -801, and 8417-026-800 and -801. A Topographic Location Map (**Figure 1**) is attached in **Appendix A**. A Site Vicinity Map is provided as **Figure 2,** and a Site Plan and a Site Plan Detail are provided as **Figures 3A** and **3B** (in **Appendix B)**.

3.2 Surrounding Area General Characteristics

The surrounding area is generally level and characterized by industrial and residential uses. The adjacent parcel to the north is developed with a multi-tenant industrial building **(Photograph 7)**. Adjacent to the east of the northern portion of the Property is a multi-tenant industrial building **(Photograph 8)**. Adjacent to the east of the southern portion of the Property is a railroad right-of-way, beyond which are an office warehouse and a portion of another **(Photograph 9)**. Adjacent to the south of the northern portion of the Property is a multi-tenant industrial building **(Photograph 10)**. Adjacent to the south of the southern portion of the Property is the equipment yard of Malcolm Drilling **(Photograph 11)**. Adjacent to the west, is Azusa Canyon Road, beyond which are single-family residences **(Photograph 12)**. A detailed listing of adjoining properties is provided in **Section 3.5**.

3.3 Current Use of the Property

The facility is occupied by Frontier Communications Corporation (Frontier, formerly Verizon) and is identified as a Garage Work Center (GWC). Uses of the facility generally include office space, a supply warehouse, employee training facilities, storage of miscellaneous equipment and parts, and areas for vehicle servicing, washing, and parking.

3.4 Description of Property Improvements

The following table provides general descriptions of the Property improvements.

PROPERTY IMPROVEMENTS	
Size of Property (approximate)	10.52 acres
General Topography of Property	Generally level
Adjoining and/or Access/Egress Roads	Azusa Canyon Road to the west
Paved or Concrete Areas (including parking)	The entire site apart from building footprints is paved, primarily with asphalt, although concrete is present locally.
Unimproved Areas	None
Landscaped Areas	Shrubbery is present in planters along the western edge of the Property.
Surface Water	None
Potable Water Source	Valley County Water District
Sanitary Sewer Utility	City of Irwindale
Storm Sewer Utility	City of Irwindale
Electrical Utility	Southern California Edison (SCE)
Natural Gas Utility	Southern California Gas
Current Occupancy Status	100%

PROPERTY IMPROVEMENTS	
Unoccupied Buildings/Spaces/Structures	Portions of the office building are not in use due to low staff
Number of Occupied Buildings	Four
General Building Description	Office, supply building, automotive service building, and a large storage building
Number of Floors	Office: two; Remaining buildings: one.
Total Square Feet of Space (approximate)	Office: 18,459; Service Building: 10,835 Supply Building: 5,888 Large Storage Building: 1,925
Construction Completion Date (year)	Office: 1966 Service Building: 1957 with an addition in 1969 Supply Building: 1966 Large Storage Building: 1966 (estimated)
Construction Type	Office: wood-frame and brick; Supply Building and Service Building: concrete masonry; Storage Building: metal
Interior Finishes Description	Walls: wallboard/joint compound, ceramic tile, painted concrete masonry; Floors: resilient floor tile, ceramic tile, resilient sheet flooring, unfinished concrete; Ceilings: wallboard/joint compound, acoustical ceiling panels, and wood.
Exterior Finishes Description	Painted concrete and stucco
Cooling System Type	Office: circulation of chilled water; Other buildings: roof-mounted package unit, window-mounted air conditioning unit, or none.
Heating System Type	Office: circulation of hot water; Other buildings: roof-mounted natural gas package unit or none.
Emergency Power	None:

3.5 Current Uses of Adjoining Properties

Current uses of the adjoining properties were observed to be as follows:

Direction	Address	Occupant	Current Use	Potential Environmental Conditions
North	5102-5108 Azusa Canyon Road	Multiple tenants	Industrial	See Note 1 below.
East	15558-15562 Arrow Highway	Multiple tenants	Industrial	See Note 2 below.
East, beyond a railroad right-of-way	4981 4th Street	No signage	Industrial	None.
East, beyond a railroad right-of-way	5091 4th Street	No signage	Industrial	None.
South	4926 Azusa Canyon Road	Malcolm Drilling	Industrial	See Note 3 below.
West	4938 Azusa Canyon Road	AAG Ice Cream	Industrial	See Note 4 below.
West	4946 Azusa Canyon Road	Arrow Engineering	Industrial	See Note 5 below
South and West	4954 Azusa Canyon Road	Multiple tenants	Industrial	See Note 6 below

Direction	Address	Occupant	Current Use	Potential Environmental Conditions
West, beyond Azusa Canyon Road	5011 – 5041 Azusa Canyon Road, 15440-15441 Sandstone Street, and 15437 Nubia Street	Private individuals	Residential	None

Note 1: Two addresses in this range were listed as Well Investigation Program (WIP) cases.

Note 2: Four tenants occupying two addresses in this range were listed as WIP cases.

Note 3: This facility is listed as a Resource Conservation and Recovery Act (RCRA) Small-Quantity Generator, as a registered underground storage tank (UST) facility on the UST list, the Los Angeles County HMS list, and the Statewide Environmental Evaluation and Planning System (SWEEPS) database, and as a WIP case.

Note 4: This facility is listed as a leaking UST (LUST) site on the LUST database and on the Los Angeles County HMS list of case files. The facility is also listed as a WIP case site.

Note 5: This facility is listed as a WIP case file site and on the Historical Auto Station database.

Note 6: This address is listed as a WIP case file site and on the Historical Auto Station database.

The potential for these adjacent facilities to impact the Property adversely is discussed in **Sections 5.1.1. and 5.1.2**.

4.0 CLIENT PROVIDED INFORMATION

The following section summarizes information (if any) provided by the Frontier (Client) with regard to the Phase I ESA. Documentation may be found in **Appendix D** or where referenced in this report.

4.1 Title Records

The Client provided no title records information. The acquisition of a chain-of-title report was not a part of the scope of services for this Phase I ESA.

4.2 Environmental Liens or Activity and Use Limitations (AULs)

The Client provided no information regarding Property environmental liens or activity and use limitations (AULs).

ATC contracted Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut to perform an environmental lien search for the Property. According to EDR, there are no environmental liens or AULs associated with the Property. Copies of the reports for each Assessor's parcel comprising the Property are included in **Appendix L**.

4.3 Specialized Knowledge

Apart from information contained in prior environmental reports provided by the Client (see **Sections 4.7 and 5.3.9**), the Client representative provided no specialized knowledge regarding *recognized environmental conditions* associated with the Property.

4.4 Significant Valuation Reduction for Environmental Issues

The Client provided no information regarding a significant valuation reduction for environmental issues associated with the Property.

4.5 Owner, Property Manager, and Occupant Information

The Client indicated that the Property is owned and occupied by Frontier Communications. No manager was identified, but the Client identified Mr. Stephen Odle with Frontier as the site contact.

4.6 Reason for Performing Phase I ESA

The ESA is being performed in connection with a proposed sale and lease-back transaction involving the Property.

4.7 Other Client Provided Documents

Per the ASTM Standard Practice E1527-13, ATC requested documents from the Client. ATC was provided with a copy of the documents listed below from the Client. Further discussion of these reports can be found in **Section 5.3.9**.

USER PROVIDED DOCUMENTS		
Title	**Date**	**Author and/or Source**
Phase II Final Report – Irwindale Plant Yard	November 8, 1985	McLaren Environmental Engineering
Soil Gas Study Report, GTE Irwindale Site, Irwindale, California, Regional Board File No. AB108.0212	August 1991	Camp Dresser & McKee, Inc.
Site Assessment and Remediation Closure Report, Sand and Grease Interceptor, GTE-Irwindale Plant Yard, 5010 North Azusa Canyon Road, Irwindale, California	November 24, 1992	Camp Dresser & McKee, Inc.

USER PROVIDED DOCUMENTS		
Title	**Date**	**Author and/or Source**
Site Assessment and Remediation Closure Report, Gasoline Pump Island, GTE-Irwindale Plant Yard, 5010 North Azusa Canyon Road, Irwindale, California	December 2, 1992	Camp Dresser & McKee, Inc.
Additional Site Assessment of Diesel Pump Island, GTE – Irwindale Plant Yard, Irwindale, California	February 4, 1993	Camp Dresser & McKee, Inc.
Report of Soil Gas Investigation, GTE Irwindale Plant Yard, 5010 North Azusa Canyon Road, Irwindale, California	November 9, 1995	Camp Dresser & McKee, Inc.
Report, Environmental Investigation Related to the Removal of two Underground Storage Tanks, GTE – Irwindale Plant Yard, 5010 North Azusa Canyon Road, Irwindale, California	August 7, 1996	Environmental Resolutions, Inc.
Underground Storage Tank Removal Report, Verizon – Irwindale Fleet Yard, GLC 071207B, 5010 Azusa Canyon Road, Irwindale, California	June 2009	Shaw Environmental, Inc.
Limited Focused Phase II Site Assessment, Site: Verizon Irwindale Plant Yard, 5010 Azusa Canyon Rd, Irwindale, CA 91706-1884	November 26, 2001	Hydrologue Inc.

5.0 RECORDS REVIEW

5.1 Standard Environmental Records

The regulatory agency database report discussed in this section, provided by EDR of Shelton, Connecticut, was reviewed for information regarding reported use or release of hazardous substances and petroleum products on or near the Property. Unless otherwise noted, the information provided by the regulatory agency database report and other sources referenced in this report, were considered sufficient for *recognized environmental condition (REC)*, *controlled recognized environmental condition (CREC)*, *historical recognized environmental condition (HREC)* or *de minimis condition* determinations without conducting supplemental agency file reviews. ATC also reviewed the "unmappable" (also referred to as "orphan") listings within the database report, cross-referencing available address information and facility names. Unmappable sites are listings that could not be plotted with confidence, but are potentially in the general area of the Property, based on the partial street address, city, or zip code. Any unmappable site that was identified by ATC as being within the approximate minimum search distance from the Property, based on the site reconnaissance and/or cross-referencing to mapped listings, is included in the discussion within this section. The complete regulatory agency database report may be found in **Appendix E**.

The following is a summary of the findings of the database review.

SUMMARY OF FEDERAL, STATE AND TRIBAL DATABASE FINDINGS			
Regulatory Database	**Approx. Minimum Search Distance**	**Property Listed?**	**Additional Sites Listed**
Federal National Priorities List (NPL)	1 mile	No	1
Federal Delisted NPL	½ mile	No	0
Federal Superfund Enterprise Management System (SEMS)	½ mile	No	1
Federal SEMS Archive	½ mile	No	1
Federal Resource Conservation and Recovery Act (RCRA), Corrective Action facilities (CORRACTS)	1 mile	No	1
Federal RCRA non- CORRACTS Treatment, Storage, and Disposal Facilities (TSD)	½ mile	No	0
Federal RCRA Generators	Property & Adjoining	**Yes**	1
Federal Institutional Control/Engineering Control Registry	Property	No	N/A
Federal Emergency Response Notification System (ERNS) list	Property	No	N/A
Environmental Compliance History Online (ECHO)	Property	**Yes**	N/A
Federal Facility Index System (FINDS)	Property	**Yes**	N/A
State and Tribal NPL (RESPONSE and Bond Expenditure Plan [BEP])	1 mile	No	1
State and Tribal CERCLIS and Brownfields (EnviroStor)	½ mile	No	0
State and Tribal Landfill or Solid Waste Disposal Sites	½ mile	No	2
State and Tribal Leaking Underground Storage Tanks (LUST)	½ mile	**Yes**	9
Historical Cortese	½ mile	**Yes**	6
Recovered Government Archives (RGA) LUST	Property	**Yes**	N/A
State Spills, Leaks, Investigations, and Clean-Ups (SLIC)	½ mile	No	8
State and Tribal Registered Underground Storage Tanks (UST), the California Facility Inventory Database (CA FID), Historical UST (HIST UST) database, and the Statewide Environmental Evaluation and Planning System (SWEEPS) list; Los Angeles County HMS list	Property & Adjoining	**Yes**	1

SUMMARY OF FEDERAL, STATE AND TRIBAL DATABASE FINDINGS			
Regulatory Database	**Approx. Minimum Search Distance**	**Property Listed?**	**Additional Sites Listed**
State and Tribal Institutional Control/Engineering Control Registry	Property	No	N/A
State and Tribal Voluntary Cleanup Site	½ mile	No	0
State Well Investigation Program (WIP)	¼ mile	**Yes**	89
Facility and Manifest Data (HAZNET)	Property	**Yes**	N/A
Historical Auto Stations	¼ mile	No	6
Historical Cleaners	¼ mile	No	0

5.1.1 Federal Agency Database Findings

The Property was identified on the following federal agency databases researched.

Frontier California aka Verizon California
5010 Azusa Canyon Road
Databases: RCRA SQG, FINDS, ECHO
Approximate Distance from the Property: Not Applicable (N/A) (Property)
Assumed Groundwater Gradient: N/A
Regulatory Data Summary: The Property is listed as a Resource Conservation Recovery Act (RCRA) Small-Quantity Generator (SQG) of hazardous waste. The wastes listed for the more recent occupant, Frontier, were described as Ignitable wastes. The wastes for the historical generator, Verizon, were described as ignitable, corrosive, and reactive materials, benzene, tetrachloroethylene, and various halogenated solvent mixtures. No violations were reported. The Property is also listed on the Facility Index System (FINDS) database. FINDS does not track any specific environmental issue, but serves as a research aid by listing other databases where information about a given site may be found. In this case, the FINDS database simply listed the RCRA database. The facility is also referenced on the Environmental Compliance History Online (ECHO) website, http://echo.epa.gov. The ECHO website had no reported violations for the last three years, the interval tracked by ECHO.
Discussion: While the former use of chlorinated solvents at the Property represents a potential concern, based on the absence of violations the presence of the Property on the RCRA SQG list is not considered to represent a *recognized environmental condition*.

The Property is located within the boundary of the San Gabriel Valley Groundwater Basin (Area 2) NPL site, a region where groundwater is impacted with various volatile organic compounds (VOCs). According to a plume map accompanying the 2015 Annual Performance Evaluation Report for the NPL site, total combined concentrations for all Contaminants of Concern (COCs) beneath the Property range between the maximum contaminant levels (MCLs) and five-times the MCLs. The principal contaminant in the groundwater beneath the Property is depicted as perchlorate, the MCL of which is 6.0 micrograms per liter (µg/L). Perchlorate does not appear to have been used on the Property. Nonetheless, the presence of impacted groundwater is considered to represent a *recognized environmental condition*.

The following adjacent site was listed on federal databases, identified as follows:

Malcolm Drilling
4926 Azusa Canyon Road
Databases: RCRA SQG
Approximate Distance from the Property: Adjacent to the south
Assumed Groundwater Gradient: Cross-gradient
Regulatory Data Summary: This site is listed as a RCRA SQG facility. The wastes generated included ignitable and corrosive wastes. No violations were reported.
Discussion: Based on the cross-gradient location and absence of violations, the presence of this adjacent facility on the RCRA SQG database is not considered to represent a *recognized environmental condition* for the Property.

Based on distance, topography, assumed groundwater gradient, current regulatory status, and/or the absence of reported releases, none of the other sites listed in the federal agency databases searched are considered to represent a likely past, present or material threat of release in, on, or at the Property. Given the physical setting characteristics of the Property and surrounding area, supplemental agency file reviews deemed unnecessary.

5.1.2 State and Tribal Database Findings

The Property was identified in the following State and tribal databases reviewed:

General Telephone Co., aka Verizon California and Frontier California
5010 Azusa Canyon Road
Databases: UST, HIST UST, SWEEPS, HMS, LUST, HIST Cortese, RGA LUST, WIP, HAZNET
Approximate Distance from the Property: Not Applicable (N/A) (Property)
Assumed Groundwater Gradient: N/A
Regulatory Data Summary: The Property is listed as a registered underground storage tank (UST) facility on the UST database, and the Historical UST (HIST UST), the Statewide Environmental Evaluation and Planning System (SWEEPS), and Los Angeles County HMS databases. The facility is also listed as a leaking UST (LUST) site on the LUST, Historical Cortese, and Recovered Government Archives (RGA) LUST lists. The LUST site has a case-closed status and reportedly affected the local soils only. A copy of the closure letter is included in **Appendix L**. The facility is also listed as a Well Investigation Program (WIP) site. WIP was a program to identify potentially responsible parties (PRPs) for the NPL site. WIP investigations ranged from having a business complete a chemical use questionnaire to the conducting of a subsurface investigation. At the request of the Regional Water Quality Control Board (RWQCB), a subsurface investigation was conducted at the Property in certain identified areas of concern, including damaged and undamaged clarifiers, steam cleaning operations, drains, and a septic system. Impacted soil was discovered and remediated. Regulatory closure was granted for the WIP investigation by the RWQCB and the Property was not named as a PRP. A copy of the closure letter, dated June 5, 1998, is included in **Appendix L**. The Property appears on the Facility and Manifest Data (HAZNET) list, as a facility that generates, or has generated, manifested waste. The wastes generated were reported as laboratory waste chemicals, other organic solids, off-specification, aged, or surplus organics, unspecified oil-containing waste, pharmaceutical waste, oil/water separation sludge, and aqueous solutions with total organic residues of less than 10 percent. Apart from the reference to laboratory waste and pharmaceutical waste, which appear to be erroneous listings, the wastes generated appear to be typical for the Property uses.
Discussion: Based on the granting of regulatory closure, the LUST and WIP case files are considered to represent *historical recognized environmental conditions*. HAZNET does not track violators and the presence of a facility on this database does not necessarily indicate that a probable exists at that facility. Based on the wastes generated, the HAZNET listings are not considered to represent a *recognized environmental condition* for the Property.

The following adjacent sites were listed on state, tribal, or local databases, identified as follows:

Ford Printing & Mail and Plastech Transparencies
5102 and 5108 Azusa Canyon Road
Databases: WIP
Approximate Distance from the Property: Adjacent to the north
Assumed Groundwater Gradient: Cross-gradient
Regulatory Data Summary: These tenants and respective addresses, both located in the same building, were listed as WIP investigation cases. No details were provided by EDR regarding the rationale for, or scope of, the WIP inquiry, but the status of the case files was reported as "Historical" indicating that the WIP cases received a 'No Further Action' (NFA) determination.
Discussion: Based on the cross-gradient location and historical status, neither of the north-adjacent WIP cases is considered to represent a *recognized environmental condition* for the Property.

A.J. Brewer Specialties, Plastech, A-Artistic Printing
15558 Arrow Highway
Databases: WIP
Approximate Distance from the Property: Adjacent to the east
Assumed Groundwater Gradient: Upgradient
Regulatory Data Summary: These tenants were listed as WIP investigation cases. No details were provided by EDR regarding the rationale for, or scope of, the WIP inquiry, but the status of each of the case files was reported as "Historical" indicating that the WIP cases received an NFA determination.
Discussion: Based on the historical status, none of these east-adjacent WIP cases is considered to represent a *recognized environmental condition* for the Property.

Carter's Metal Fabricators and Saavedra Wood Prod. & Constr. (Saavedra)
15560 Arrow Highway
Databases: WIP
Approximate Distance from the Property: Adjacent to the east
Assumed Groundwater Gradient: Upgradient
Regulatory Data Summary: These tenants were listed as WIP investigation cases. No details were provided by EDR regarding the rationale for, or scope of, the WIP inquiry, but the status of the first of these tenants, Carter's Metal Fabricators, was reported as "Historical" indicating that the WIP case received an NFA determination. The status of the other tenant, Saavedra, was not reported; however, ATC reviewed a list of PRPs for the NPL site and this tenant was not listed, suggesting that its status is NFA as well.
Discussion: Based on the known or presumed historical status, neither of these east-adjacent WIP cases is considered to represent a *recognized environmental condition* for the Property.

CMZ Company
4926 Azusa Canyon Road
Databases: UST, SWEEPS, HMS, WIP
Approximate Distance from the Property: Adjacent to the south
Assumed Groundwater Gradient: Cross-gradient
Regulatory Data Summary: This site is listed as a registered UST facility on the UST and SWEEPS databases and the Los Angeles County HMS database. The facility is not listed as a LUST site. The facility is also listed as a WIP case with a 'historical' status.
Discussion: Based on the cross-gradient location and absence of reported releases associated with the USTs present, as well as the historical status of the WIP case file, the presence of this adjacent facility on the registered UST and WIP databases is not considered to represent a *recognized environmental condition* for the Property.

Rodriquez Trucking
4938 Azusa Canyon Road
Databases: LUST, HMS, WIP
Approximate Distance from the Property: Adjacent to the west
Assumed Groundwater Gradient: Downgradient
Regulatory Data Summary: This site is listed as an open LUST site on the LUST and HMS databases. Reportedly only the local soil is affected. The facility is not listed as a LUST site. The facility is also listed as a WIP case with a 'historical' status.
Discussion: Based on the downgradient location, medium affected by the LUST site, and the historical status of the WIP case file, the presence of this adjacent facility on the LUST, HMS and WIP databases is not considered to represent a *recognized environmental condition* for the Property.

D-L Machine Shop, Arrow Engineering
4946 Azusa Canyon Road
Databases: WIP, Historical Auto Stations
Approximate Distance from the Property: Adjacent to the west
Assumed Groundwater Gradient: Downgradient
Regulatory Data Summary: This site is listed twice on the WIP list, each with a status of 'historical.' The address is also listed on EDR's Historical Auto Station database under the current tenant name, Arrow Engineering for the years 2006, 2007, and 2008.
Discussion: The Historical Auto Station database does not list violators or releases, but simply indicates that the current occupant was present since at least 2006. Based on the historical status of the WIP case file, the presence of this adjacent facility on the WIP database is not considered to represent a *recognized environmental condition* for the Property.

Advance Marine & Development, Sam's Foreign and Domestic Auto Center
4954 Azusa Canyon Road
Databases: WIP, Historical Auto Stations
Approximate Distance from the Property: Adjacent to the south and west
Assumed Groundwater Gradient: Cross-gradient and Downgradient of different portions of the Property
Regulatory Data Summary: This site is listed on the WIP list, with a status of 'historical.' The address is also listed on EDR's Historical Auto Station database under a current tenant name, Sam's Foreign and Domestic Auto Center for the years 1999 through 2012.
Discussion: The Historical Auto Station database does not list violators or releases, but simply indicates that a current occupant was present since at least 1999. Based on the historical status of the WIP case file, the presence of this adjacent facility on the WIP database is not considered to represent a *recognized environmental condition* for the Property.

Based on distance, topography, assumed groundwater gradient, current regulatory status, and/or the absence of reported releases, none of the other sites listed in the state and tribal agency databases searched are considered to represent a likely past, present or material threat of release in, on, or at the Property. Given the physical setting characteristics of the property and surrounding area, supplemental agency file reviews were not warranted to verify the database report information.

5.1.3 Local Environmental Records Sources

Los Angeles County Public Health Investigation (PHI)

ATC requested a search of available records pertaining to hazardous materials use and hazardous waste generation at the Property from the PHI. Hazardous materials inspections were conducted by the PHI in 1994, 1999, and 2005. No violations were observed during those inspections. Three 120-gallon hydraulic oil reservoirs were depicted on a site drawing attached to a Hazardous Materials Business Plan on file with the PHI. The reservoirs are shown along the southern side of the vehicle service building and are believed

to correspond with rectangular access plates observed during the site reconnaissance. It is not known if these reservoirs are still in use. While active in-ground hydraulic lifts are present on-site, ATC noted the presence of two aboveground hydraulic oil tanks inside the garage that were interpreted at the time of the site reconnaissance to supply the oil for the lifts. As no information regarding the condition and/or service history of the subsurface hydraulic oil reservoirs is available, they are considered to represent a *recognized environmental condition* for the Property.

California Environmental Protection Agency, Department of Toxic Substances Control (DTSC)

According to the DTSC EnviroStor website, http://www.envirostor.dtsc.ca.gov/public, the DTSC has no files for the Property.

Los Angeles County Department of Public Works (LACDPW)

ATC reviewed files pertaining to the Property at the LACDPW. Items of potential environmental significance identified in the LACDPW file included the following:

- Part of a set of plans, dated December 1956, which shows a large office building, oriented east-west, and located a short distance south of the current office. A septic system is shown located on the northern side of this building. This plan also depicts a truck scale located on the eastern side of the Property along the south side of where the large storage building is currently. A shallow dry well is connected to the truck scale, approximately 25 feet away on the northern side. The top of this well is 3.5 feet below the surface and no surface expression of it is visible. The well reportedly extends to 9.5 feet below ground surface (bgs). The large storage building is now located above the well's location. As a potential conduit to the subsurface from any discharge associated with the former truck scale, this dry well is considered to represent a *recognized environmental condition*. The portion of the 1956 plan depicting the dry well is included in **Appendix L.**

- Part of a set of plans, dated August 1966 depicting the office building, supply building, and south dispenser canopy as 'new.' A 12-foot deep cesspool beneath the southeast corner of the truck wash tunnel and a 20-foot deep cesspool a short distance to the northwest of the clarifier, two 900-gallon septic tanks arranged in tandem located to the north of the truck wash tunnel with a notation to fill them with sand after pumping out, and a septic system located consisting of six 900-gallon septic tanks and four cesspools located a short distance to the southeast of the current office building.

- Part of a set of plans, dated January 1969 that depict a steam cleaning area to the east of the current boiler room within the service building, a notation to remove two sand traps and drains associated with the steam clean area, a 1,600 square-foot addition to the eastern end of the service building, and a notation to demolish the large storage building currently located on the eastern side of the Property.

- Plans for installation of a 12,000-gallon Plasteel gasoline UST to the southeast of the northern dispenser island. This UST replaced an earlier 10,000-gallon gasoline UST that was removed from a location northeast of the dispenser island in November of 1988.

- A copy of a November 1990 soil remediation report prepared by Jetco Environmental and Associates Inc. for impacted soils found beneath and adjacent to the southern dispenser island. This report is discussed in greater detail in **Section 5.3.9,**

- Copies of various reports provided to ATC by the client, all of which are discussed in **Section 5.3.9**.

Regional Water Quality Control Board (RWQCB)

ATC requested a review of the LUST and WIP files associated with the Property. ATC was informed all LUST case files were stored at the LACDPW. Apart from numerous pages of correspondence, the WIP case file contained the prior reports provided by the Client and discussed in **Section 5.3.9**. One item of note observed in the RWQCB file, was a report addendum to the November 24, 1992 report by CDM entitled *Site Assessment and Remediation Closure Report, Sand and Grease Interceptor, GTE-Irwindale Plant Yard, 5010 North Azusa Canyon Road, Irwindale, California*. The addendum indicated that VOC concentrations in the 1992 report were incorrectly reported as mg/kg when they should have been µg/kg. Otherwise, the review of RWQCB files did not reveal additional relevant information pertaining to the Property.

South Coast Air Quality Management District (SCAQMD)

According to information contained on the SCAQMD website, http://www.aqmd.gov, the SCAQMD has a record of inactive permits for storage and dispensing of gasoline, various control measures including amine treating, amine regeneration, and NH3 Injection, and Banking Plans. A current application by Frontier for a Banking Plan is in review. No formal violations were of record; however, Verizon received a warning in 2010 for operating a portable generator of more than 50 horsepower without a permit. The SCAQMD also had a record of a permit issued in 1975 for a paint spray booth. An image of the 1975 permit was available online, which identified the manufacturer as Binks, and the dimensions as 7'8" wide, 7" high, and 8'8" deep and utilized one exhaust fan. It is not known with certainty that the spray booth was installed; however, assuming that it was, no renewal permits were observed and it may have been present for a limited time. Given the time-frame that the permit was issued, it is possible that chlorinated solvents were used in connection with the booth. The former spray booth is considered to represent a *recognized environmental condition*; however, its former location is unknown.

A large spray booth used as a storage building (for non-chemical items) is present on-site along the east Property line. As the manufacturer, dimensions, and number of exhaust fans on this spray booth do not match those cited on the permit, and early site plans for the Property observed at the LACDPW note the continual presence of a shed in the same location, ATC considers it unlikely that this spray booth is the one referenced in the 1975 SCAQMD permit. This storage/spray booth is not considered to represent a *recognized environmental condition*.

Department of Planning and Zoning

According to information on the Planning Department link of the City of Irwindale website, http://ci.irwindale,ca,us, the Property is zoned M-1 for light manufacturing.

5.2 Physical Setting Sources

5.2.1 Topography

According to the United States Geological Survey (USGS) 7.5-Minute Series Topographic Map of the *Baldwin Park, California* Quadrangle, the pre-development elevation of the Property ranged approximately between 440 and 450 feet above mean sea level. The area has a slope to the south-southwest. A copy of the topographic map is included as **Figure 1** (**Appendix A**).

5.2.2 Geology

The Property is situated on approximately 800 feet of unconsolidated and semi-consolidated Recent gravelly sediments derived from erosion of the nearby San Gabriel Mountains. These sediments most likely rest on several thousand feet of consolidated sedimentary rocks (California Department of Water Resources, 1966).

5.2.3 Soils

According to the United States Department of Agriculture, Soil Conservation Service publication, *Report and General Soil Map, Los Angeles County*, soils of the Property most likely belong to the Hanford Association. Hanford soils are over 60 inches deep, are well-drained, and have moderately rapid subsoil permeability. They have pale brown coarse sandy loam surface layers about eight inches thick, underlain by light yellowish-brown coarse sandy loam subsoil and a gravelly loamy coarse sand substratum. They are slightly acid to mildly alkaline throughout, and have an available water-holding capacity of 5.0 to 7.5 inches for 60 inches of soil depth. Shrink-swell potential is low and corrosivity for untreated steel is low.

5.2.4 Hydrology

According to a July 2014 groundwater elevation contour map of the San Gabriel Valley, the depth to groundwater at the Property is approximately 250 feet below ground surface. The direction of groundwater flow at that time was to the west (San Gabriel Basin Watermaster, 2014).

Estimated groundwater levels and/or flow direction may vary due to seasonal fluctuations in precipitation, local usage demands, geology, underground structures, or dewatering operations.

5.2.5 Other Physical Setting Sources

Flood Plain Map

According to information provided by the Federal Emergency Management Agency (FEMA) website, http://www.fema.gov, the property is located in flood zone X, or areas outside of 500-year flood risk. The community/panel number for the Flood Insurance Rate Map for the property is 06037C 1700F and the effective date is September 26, 2008. A copy of the flood plain map is included in **Appendix L**.

Wetlands Map

According to the United States Fish and Wildlife Service (USFWS) Wetlands Mapper website, http://www.fws.gov/wetlands/Data/Mapper.html, no wetlands are present on, or adjacent to, the property. A copy of the National Wetlands Inventory map is included in **Appendix L**.

5.3 Historical Records Sources

The following table summarizes the findings of the research presented below pertaining to historical Property and surrounding area uses.

HISTORICAL USE SUMMARY				
Period	**Identified Historical Uses**		**Source(s)**	**Intervals/Comments**
	Property	**Surrounding Area**		
Prior to 1940	Vacant Agricultural	Vacant Agricultural Industrial Residential	Topographic Maps Aerial Photographs	An 1894 topographic map is the earliest record identified. One data gap of 20 years (1905-1924). No use changes across the data gap.

HISTORICAL USE SUMMARY				
Period	**Identified Historical Uses**		**Source(s)**	**Intervals/Comments**
	Property	**Surrounding Area**		
1940-1960	Vacant Agricultural Industrial	Vacant Agricultural Industrial Residential	Topographic Map Building Permits Aerial Photographs	One eight-year data gap (1940-1947). No use changes across the data gap. The Property is developed with the auto service building and an office building, circa 1957.
1961-1980	Industrial Vacant	Vacant Industrial Residential	Topographic Maps Aerial Photographs Building Permits	One six-year data gap (1958-1963). No use changes across the data gap. The current office, supply building, and large storage building were constructed circa 1966.
1981 to 2000	Industrial	Vacant Industrial Residential	Aerial Photographs Topographic Map Building Permits Prior Reports	No data gaps.
2001-present	Industrial	Vacant Industrial Residential	Aerial Photographs Topographic Map City Directory Prior Reports	No data gaps.

ASTM Standard E 1527-13 requires review of historical use resources at approximately five-year intervals. Since gaps in data occur at greater than five-year intervals, data failure occurs relative to the standard requirements. However, based on the agreement of multiple historical sources concerning prior Property use, ATC does not consider the data gaps to be *significant*.

The Property was vacant or partially under cultivation until at least 1952. By late 1956, the first building permits were issued for the eventual development of the Property for its current use. The surrounding area was predominantly agricultural or vacant through the early 1950s, although a large quarry, present a short distance to the southeast, in 1938, had expanded to occupy the adjacent property to the east by at least 1948. The southeastern portion of the Property, currently used as a parking lot, remained undeveloped until at least 1964. Additional buildings were constructed on the main Property parcel in 1966, and a pre-existing office, constructed in 1957, was demolished. It is probable that the Property appeared essentially as it does currently by about this time. Residential development on the west-adjacent parcels began prior to 1952 and was complete by at least 1964. The adjacent quarry was filled in by 1990. The adjacent parcels to the north, west, and south appeared essentially as they do currently by 1994. The east-adjacent parcels were developed with the current industrial buildings prior to 2002.

5.3.1 Aerial Photographs

ATC reviewed available aerial photographs of the Property and surrounding areas provided by EDR. Available aerial photographs ranged from 1928 to 2012. The following are descriptions and interpretations from the aerial photograph review.

AERIAL PHOTOGRAPH SUMMARY		
Year	**Scale**	**Comments**
1928	1"=500'	**Property**: Except for what appear to be a few plow rows on the northwestern portion of the Property, along with one or two small structures, the Property appears to consist primarily of vacant land. **Surrounding Area**: The adjacent parcel to the north is under cultivation with an orchard. The adjacent lands to the east and south of the eastern half of the property are undeveloped. Adjacent to the south of the western half of the property are several buildings of unknown nature, possibly commercial or rural residences and farm buildings. Adjacent to the west, beyond Azusa Canyon Road, is an orchard.
1938	1"=500'	**Property**: Several small buildings are located on the northwestern portion of the Property. Apart from what appear to be two small cultivated areas on the southeastern portion of the Property, the remainder of the Property appears to be vacant. **Surrounding Area**: The adjacent parcel to the north is under cultivation with an orchard. The adjacent lands to the east and south of the eastern half of the property are undeveloped, although some disturbance to the soil east of the Property appears associated with quarrying activity farther to the east. Adjacent to the south of the western half of the property are several buildings of unknown nature, possibly commercial or rural residences and farm buildings. Adjacent to the west, beyond Azusa Canyon Road, is an orchard.
1948 and 1952	1"=500'	**Property**: The western half of the main Property parcel is under cultivation with an orchard. Small buildings are present along the northern property line of the main parcel. The southeastern portion of the Property has a dirt road along the western edge and two small buildings at its northern end. **Surrounding Area**: The adjacent parcel to the north is under cultivation with an orchard. Adjacent to the east of the main Property parcel is undeveloped land. Farther east, beyond where the railroad right-of-way is currently located is a large quarry, which is also directly east of the southeastern portion of the Property. Adjacent to the south of the eastern half of the Property is vacant land. Adjacent to the south of the western half of the Property are what appear to be farm buildings. Adjacent to the west, beyond Azusa Canyon Road, is an orchard.
1964	1"=500'	**Property**: The main parcel of the Property is developed with a large office building located near the southwestern corner and the auto service building, which is not as long. Most of the main parcel appears to be used for parking of company trucks. The southeastern portion of the Property is undeveloped and has what appears to be a large soil or debris pile that appears to extend onto the adjacent rural parcels. **Surrounding Area**: The adjacent parcel to the north is vacant land. The adjacent parcel to the east of the main Property parcel appears to be developed with one or two small buildings with associated parking. Farther east is a large quarry. Adjacent to the east of the southeastern Property parcel is part of the quarry property. Adjacent to the south of the eastern half of the property is an industrial equipment yard. Adjacent to the south of the western portion of the Property are what appear to be remnants of the rural buildings and a portion of the aforementioned on-site soil pile. Adjacent to the west, beyond Azusa Canyon Road, are single-family residences.
1977 and 1979	1"=500'	**Property**: The Property is developed much as it is currently with the current office building, supply building, large storage building and auto service buildings. The truck wash tunnel does not appear to be present and the dispenser canopies are not discernible, possibly due to the scale of the photograph. The southeastern portion of the Property is developed as a parking lot as it is currently. **Surrounding Area**: The adjacent parcel to the north is vacant land. The adjacent parcel to the east of the main Property parcel is undeveloped. Farther east is a large quarry. Adjacent to the east of the southeastern Property parcel is part of the quarry property. Adjacent to the south of the eastern half of the property is an industrial equipment yard. Adjacent to the south of the western portion of the Property are what appear to be some of the current industrial buildings. Adjacent to the west, beyond Azusa Canyon Road, are single-family residences.

AERIAL PHOTOGRAPH SUMMARY		
Year	**Scale**	**Comments**
1981 and 1983	1"=500'	**Property**: The Property appears essentially as it does currently. **Surrounding Area**: The adjacent parcel to the north appears to be in an early stage of development on the 1981 photograph and is developed with the current industrial park on the 1983 photograph. The adjacent parcel to the east of the main Property parcel has a number of what may be storage containers located along its length on the 1981 photograph; however, the current east-adjacent multi-tenant industrial building is present on the 1983 photograph. Farther east and adjacent to the east of the southeastern portion of the Property is the large quarry. Adjacent to the south of the eastern half of the property is an industrial equipment yard. Adjacent to the south of the western portion of the Property are the current industrial buildings. Adjacent to the west, beyond Azusa Canyon Road, are single-family residences.
1990 and 1994	1"=500'	**Property**: The Property appears essentially as it does currently. **Surrounding Area**: The adjacent parcels to the north, south, west, of the Property and east of the main Property parcel, appear essentially as they do currently. Farther to the east, the quarry has been completely filled in and appears as a large, undeveloped tract of land.
2002, 2005, 2009, 2010, and 2012	1"=500'	**Property**: The Property appears essentially as it does currently. **Surrounding Area**: The adjacent parcels on all sides appear essentially as they do currently.

Given the past agricultural use, there is some potential for environmentally persistent pesticides and herbicides to be present in the subsurface. However, given the amount of grading and mixing accompanying the development of the Property along with the fact that the entire Property is essentially paved, it is unlikely that former pesticide and/or herbicide use would present a hazard to occupants or otherwise impact the current use of the Property. Additionally, although certain past activities and/or features following development are considered to represent either a *recognized environmental condition* or a *historical recognized environmental condition* for the Property, these specific features and/or conditions are not specifically identifiable as such from the review of historical aerial photographs. Each on-site concern is discussed in the respective report sections where the concerns are first made apparent. Copies of the aerial photographs are included in **Appendix F**.

5.3.2 Fire Insurance Maps

ATC requested copies of historical Sanborn Fire Insurance Maps (Sanborn Maps) depicting the Property and surrounding area from EDR. According to EDR, Sanborn Map coverage of the Property is not available. A copy of EDR's "unmapped property" letter is included in **Appendix G**.

5.3.3 Property Tax Files

According to information on file with the Los Angeles County Assessor, the current owner of the Property is listed as GTE California Inc. No acquisition date was given and no prior owners were listed. The review of tax files did not identify *recognized environmental conditions* at the Property.

5.3.4 Recorded Land Title Records

The acquisition of recorded land title records was not part of the scope of work for the Phase I ESA.

5.3.5 Historical USGS Topographic Quadrangles

ATC reviewed historical USGS Topographic Quadrangle maps, which were obtained from EDR, for information regarding past uses of the Property. The historical topographic maps were dated 1894, 1897,

1898, 1904, 1925, 1928, 1933, 1939, 1953, 1966, 1972, 1981, and 2012. The 1894 through 1933 map editions show no development on, or adjacent to the Property. The 1939 map edition shows a small structure at, or just north of the northwest corner of the Property. The east-adjacent railroad track is depicted as are two small houses nearby to the south. The 1953 map edition shows agriculture on the western half of the main parcel and no other development on-site. A mix of residences and agricultural uses are present to the west. Small structures are present to the south, and a large gravel pit is adjacent to the east. The 1966 map edition shows the original on-site office building near the southwestern corner of the Property and the auto service building. The west-adjacent parcels are shown in a pink shading indicative of a developed urban setting, most likely the current residential development, small structures on the south-adjacent parcel, and a water-filled gravel pit to the east. The north-adjacent parcel is shown as undeveloped. The 1972 and 1981 depicts the current office, supply building and service building on-site. The west-adjacent parcels are shown in a pink shading indicative of a developed urban setting, most likely the current residential development, small structures on the south-adjacent parcel, and a water-filled gravel pit to the east. The north-adjacent parcel is shown as undeveloped. The 2012 map edition shows only streets and does not depict structures or property uses. However, the east-adjacent parcel erroneously depicts the former gravel pit. Copies of the historical topographic maps are provided in **Appendix G**.

The review of historical topographic maps did not identify past uses indicating any *recognized environmental conditions* at the Property or surrounding areas. Copies of the historical topographic maps are included in **Appendix G**.

5.3.6 City Directories

Research regarding the availability of historical city directories was conducted by EDR. City directories dated 1920 through 2013 were reviewed at approximate five-year intervals by EDR. EDR identified a city directory listing for the Property for only one year, 2008. ATC's findings are summarized as follows.

CITY DIRECTORY SUMMARY	
Year	**Comments**
2008	**Property:** Azusa Canyon Road: 5010-Verizon California. **Surrounding Properties:** Azusa Canyon Road: 4926-Malcolm Drilling Co. Inc.; 4938-Alondras Ice Cream; 4946-Arrow Engineering; 4954-Sam's Foreign and Domestic Auto Center; 5102-Esmond Natural USA Inc.; 5106-Yutaka Electric International; 5108-Top Three Enterprises Inc., Penavico Group International; Arrow Highway: 15558-Interstate Battsey System of East SA;

Although an auto repair shop was listed on a south-adjacent parcel, based on its cross-gradient location and absence of known releases, it is not considered to represent an environmental concern to the Property. The review of historical city directories did not reveal the presence of recognized environmental conditions at the Property or the surrounding area.

5.3.7 Building Department Records

ATC reviewed the historical Building Department records at the City of Irwindale, Building Department. A large number of building permits were on-file. The earliest permits on file, dated December 1956, were for a liquid gas storage shelter and a tool shed. No location was provided for either improvement. Other notable permits observed, included the following:

- A permit for a two-story 24,550 square-foot office and warehouse, dated January 1957;
- A permit for the vehicle service building, dated January 1957;
- A permit for a truck scale pit, dated January 1957;
- A permit for a new gas pump canopy, dated January 1957;
- A permit to connect the office to a private septic system, dated March 1957;
- A permit for a new tool shed (12'x26'), dated July 1957;
- A demolition permit for a two-story office and warehouse, dated April 1966;
- A permit to abandon cesspools, dated April 1966;

- Initial construction permits for a 5,980 square-foot office/warehouse (the supply building), a two-story, 19,000 square-foot office, and a 6,750 square-foot truck wash station, dated October 1966;
- A permit for a gas island (no location provided), dated October 1966;
- A permit for a sand trap with two sump drains (location unknown), dated November 1966;
- A permit dated December 1966 to connect the new office and supply building to the municipal sewer;
- A January 1967 permit to install an underground storage tank (UST), no location reported;
- A permit for a new 300 square-foot truck wash station, dated February 1967 (this appears to be the current truck wash tunnel);
- A sewer connection permit dated April 1967. A diagram depicts a line running from the truck wash tunnel to a two-stage clarifier located in the same place as the current three-stage clarifier (on the north side of the truck wash tunnel);
- Permits dated June 1967 to connect the service building and one other unidentified building to the municipal sewer;
- A permit, dated August 1992, to remove and replace a clarifier and sample box (located on the north side of the truck wash tunnel);
- A February 1996 permit to install fueling system – Remove and install (500 gallon, 12,000 gallon). These figures appear to refer to the installation of the current 500-gallon dual compartment oil aboveground storage tank (AST) and a 12,000-gallon gasoline UST (believed to be the northern dispenser area).
- A February 1996 permit to install a new fuel canopy;

Some of the features referenced in these permits are associated with various subsurface investigations. Their possible connection with *recognized environmental conditions* or *historical recognized environmental conditions* is discussed elsewhere where appropriate.

5.3.8 Zoning/Land Use Records

Historical building permits for the Property indicate a zone of M-1 for light industrial uses. Based on aerial photographs, it appears that portions of the Property were under cultivation until at least the early 1950s. Presumably the Property was zoned for agriculture prior to then.

5.3.9 Prior Reports

During the preparation of this Phase I ESA, ATC was provided with the following prior environmental reports by the Client pertaining to the Property:

Phase II Final Report – Irwindale Plant Yard, prepared by *McLaren Environmental Engineering (McLaren),* dated November 8, 1985.

This report presents the results of a subsurface investigation conducted adjacent to a 10,000-gallon diesel UST associated with the southern dispenser island and a precision tightness test conducted on a 10,000-gallon gasoline UST associated with the northern dispenser island. One boring was advanced to a depth of 15 feet, adjacent to the southern UST. Soil samples were collected at depths of 3.5 to 5.0 feet, 8.5 to 10.0 feet, and 13.5 to 15.0 feet and analyzed for petroleum hydrocarbons by infrared spectroscopy (IR). Petroleum hydrocarbons were detected at a maximum concentration of 30 milligrams per kilogram (mg/kg) in the deepest sample. The gasoline tank tested as tight. McLaren recommended performing a tightness test on the diesel tank and annual tests for both tanks thereafter.

Site Investigation, GTE Irwindale Facility, 5010 Azusa Canyon Road, Irwindale, prepared by Jetco Environmental & Associates Inc. (Jetco), dated November 14, 1990.

This report, which was not among those provided to ATC by the Client, but was instead reviewed in the files of the LACDPW, presents the results of exploratory soil sampling and remediation of the southern dispenser island on-site. (Note: ATC learned from the review of LACDPW files that the 10,000-gallon gasoline UST associated with the northern dispenser island was removed in November of 1988 and the 10,000-gallon diesel UST associated with the southern dispenser island was removed in February 1989. No initial closure documentation was identified).

This report documents the remediation efforts associated with impacted soils beneath the southern dispenser island. According to the background summary section of this report, a soil sample collected in September 1990 by Jetco from a shallow boring in the center of the dispenser island identified 4,200 mg/kg of total petroleum hydrocarbons (TPH) at a depth of two feet. In response, soil beneath the island was excavated to a depth of five feet. Additionally, two trenches were excavated on each side of the dispenser island to a depth of 12 feet. Confirmation samples from the bottom of the trenches had TPH concentrations ranging from non-detect to 26 mg/kg. The confirmation sample beneath the island had a TPH concentration of 50 mg/kg. As these concentrations were below the target clean-up level of 100 mg/kg, Jetco recommended no additional investigation.

Soil Gas Study Report, GTE Irwindale Site, Irwindale, California, Regional Board File No. AB108.0212, prepared by Camp Dresser & McKee, Inc. (CDM), and dated August 1991.

This report presents the results of a soil gas investigation with associated soil sampling, conducted in response to requests made by the RWQCB following an inspection in March 1991, which identified two principal areas of the Property requiring investigation. The investigation was part of an area-wide search by the RWQCB, under the Well Investigation Program (WIP), for Potentially Responsible Parties (PRPs) for the San Gabriel Valley Groundwater Basin (Area 2) National Priorities List (NPL) site, a region of where groundwater impacted with a number of industrial solvents and other compounds. The Property is located within the boundaries of the NPL site. The first area identified by the RWQCB was the truck wash tunnel and steam cleaning bay, with associated drains and clarifier, and inactive cesspools and septic tanks. In particular, degradation was noted to the concrete of the western drain/sump of the wash tunnel and grouted portions of the clarifier. The second area consisted of certain bays within the eastern half of the service building that formerly contained a truck wash/steam clean area and at least one clarifier (Note: a set of plans as well as a hand-drawn diagram observed at the LACDPW referenced two clarifiers in this second area. A total of 63 soil gas and four soil samples were collected and analyzed from 28 locations. Soil gas probe locations included the above-referenced current and former vehicle washing, steam cleaning, and septic waste water system as well as the soap sump and current and former hazardous waste storage enclosures. Soil gas probe depths ranged from four to eight feet due to the presence of cobbles and gravelly soils in the subsurface. Soil gas samples were analyzed for 1,1,1-trichloroethane (TCA, a compound previously identified in clarifier waste water), 1,1-dichloroethane, chloroethane, tetrachloroethane (PCA, erroneously referred to in the text as tetrachloroethene [PCE]), trichloroethene (TCE), and total volatile organic compounds (VOCs) by gas chromatograph. Soil samples were located in Area One near the rear of the steam cleaning area, the former cesspool within the truck wash tunnel, near the outflow of the clarifier, and in Area Two, adjacent to the estimated location of the former clarifier. Soil samples were analyzed for VOCs by EPA Methods 8010/8020 and total recoverable petroleum hydrocarbons (TRPH) by EPA Method 418.1. All soil samples had non-detectable concentrations of VOCs and only one, located near the Area One clarifier, had an elevated concentration of TRPH (11,000 mg/kg at a depth of 7.5 feet). Soil gas readings indicated that TCA was detected in all samples at concentrations ranging from 0.05 micrograms per liter (µg/L) to 1.81 µg/L, with the maximum occurring near the clarifier inlet. Total VOCs ranged from 0.89 µg/L in a former waste storage area located near the northeastern corner of the truck wash tunnel to 215.1 µg/L near the clarifier outlet. The specific additional VOCs whose concentrations were summed to make up the “total” was not reported. No DCE or TCE was detected in any of the samples and low concentrations of chloroethane and PCA were in one sample each. The eastern

area of investigation had TCA concentrations ranging from 0.13 µg/L to 1.12 µg/L, while total VOC concentrations ranged from 1.19 µg/L to 11.92 µg/L.

CDM recommended that the clarifier and surrounding TRPH-contaminated soil be removed and disposed of appropriately.

The RWQCB subsequently issued a provisional closure letter dated September 3, 1992 stating that no further action was required at that time with respect to the former septic tank and cesspool area, but reserved the possibility that additional investigation might be required in the future (which proved to be the case). A copy of that closure letter is included in **Appendix L**. Final closure was eventually achieved, as indicated by the succeeding reports and/or documents discussed below, and the soil impacts are considered to represent a *historical recognized environmental condition*; however, the identification of VOCs in soil vapors beneath the property in varying concentrations is considered to represent a *vapor encroachment condition* **(see Section 7.0)**.

Site Assessment and Remediation Closure Report, Sand and Grease Interceptor, GTE-Irwindale Plant Yard, 5010 North Azusa Canyon Road, Irwindale, California, prepared by CDM and dated November 24, 1992.

This report documents a number of activities including the removal of a two-stage clarifier located north of the truck wash tunnel and replacement with a three-stage clarifier utilizing a geomembrane secondary containment and epoxy coating of interior surfaces, the removal of a septic tank system located a short distance to the northeast of the clarifier, the removal and replacement of two drains (one in the steam cleaning bay and the other within the truck wash tunnel), and collection of soil samples for analysis from the excavations of the clarifier, septic tank and estimated cesspool areas. Soils identified as impacted through field screening were excavated.

A total of 47 tons of impacted soil was removed from a broad area between the steam cleaning drain and the outlet of the clarifier. Confirmation samples from the bottom of the excavation were collected from locations specified by the RWQCB representative and analyzed for halogenated and aromatic VOCs by EPA Methods 8010 and 8020, as well as TRPH by EPA Method 418.1. Apart from one sample from beneath the septic tank, which reportedly contained 11 mg/kg of chloromethane and 24 mg/kg of 1,4-dichlorobenzene, no VOCs were detected in the confirmation samples, and TRPH concentrations ranged from non-detect to 27 mg/kg, or well below the target clean-up level of 100 mg/kg. An addendum letter dated February 9, 1993 was observed by ATC during our review of RWQCB files for the Property that corrected the units reported for the VOC concentrations to µg/kg.

Based on the results, CDM requested that the RWQCB approve closure for the investigated area. In a letter dated January 20, 1993, the RWQCB responded that due to the sampling method employed (glass jars filled with a hand trowel), the VOC concentrations detected were likely to be low and not representative of site conditions. Nonetheless, the RWQCB provisionally stated that no further action was required at that time, but indicated that additional investigation might be required. A copy of the January 20, 1993 letter is included in **Appendix L**. On April 1, 1993, the LACDPW issued a joint closure letter for this investigation and for the following report dated December 2, 1992, a copy of which is included in **Appendix L**.

Site Assessment and Remediation Closure Report, Gasoline Pump Island, GTE-Irwindale Plant Yard, 5010 North Azusa Canyon Road, Irwindale, California, prepared by CDM and dated December 2, 1992.

This report documents soil excavation efforts to remediate soils beneath the northern dispenser island in 1992. On January 4, 1992, CDM collected a soil sample beneath the gasoline dispenser island, which was then analyzed for the fuel constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX). The analysis revealed BTEX concentrations of 14, 75, 68, and 620 micrograms per kilogram (µg/kg), respectively. To remediate these impacts, an area approximately ten feet by ten feet was excavated beneath, and on the northern side of the dispenser island to an approximate depth of eight feet. Sidewall samples were analyzed for BTEX and total extractable petroleum hydrocarbons as gasoline (TPHg). The

bottom sample was analyzed for BTEX only. All samples had non-detectable concentrations of the analytes.

CDM recommended that the LACDPW issue a closure letter for the northern pump area. As previously stated, on April 1, 1993, the LACDPW issued a joint closure letter for this investigation and for the preceding report dated November 24, 1992, a copy of which is included in **Appendix L**.

Additional Site Assessment of Diesel Pump Island, GTE – Irwindale Plant Yard, Irwindale, California, prepared by CDM and dated February 4, 1993.

This report documents the result of a limited subsurface investigation consisting of a single boring advanced along the northern side of the south pump island at the Property. Soil samples were collected at depths of 12 and 17 feet bgs and analyzed for BTEX and total extractable petroleum hydrocarbons as diesel (TPHd). Both samples had non-detectable concentrations of all analytes. CDM recommended that regulatory closure for the southern pump island should be requested from the LACDPW. What appears to be a closure letter for this former diesel UST removed in 1989 (and possibly intended to include the former gasoline UST removed in 1988 under the same permit) was issued by the LACDPW on May 6, 1993. A copy of that letter is included in **Appendix L**.

Report of Soil Gas Investigation, GTE-Irwindale Plant Yard, 5010 North Azusa Canyon Road, Irwindale, California, prepared by CDM and dated November 9, 1995.

In May of 1995, the RWQCB requested additional soil gas sampling in the vicinity of the former clarifier inlet and former septic tanks. In September 1995, vapor well VW-1 was advanced to a depth of 19 feet bgs a short distance northeast of the clarifier inlet and vapor well VW-2 was advanced to a depth of 20 feet bgs, and was located west of the former septic tanks. Two soil vapor probes were placed in each well at approximate ten-foot intervals. Vapor samples were analyzed for VOCs by an on-site mobile laboratory. No VOCs were detected in any of the soil vapor samples collected. CDM requested that the RWQCB grant closure for the former clarifier/septic tank areas. The RWQCB determined that the work performed to that point had adequately evaluated the VOC contamination and that no further action was required with regard to the San Gabriel Valley Cleanup Program (i.e., WIP) and issued a letter to that effect dated June 5, 1998, a copy of which is included in **Appendix L**. However, the RWQCB did caution that other agencies such as the USEPA were not bound by this letter and could make their own determination regarding the Property. Accordingly, while the WIP case file is considered to represent a *historical recognized environmental condition*, the presence of the Property within the NPL site boundary is still considered to represent a *recognized environmental condition*.

Report, Environmental Investigation Related to the Removal of Two Underground Storage Tanks, prepared by Environmental Resolutions, Inc. (ERI), dated August 7, 1996.

This report documents the removal of a 12,000-gallon gasoline UST located near the northern dispenser island and a 1,000-gallon waste oil UST located at a point farther to the east along the southern side of the vehicle maintenance building. Both USTs were removed on January 19, 1996, along with the dispenser island. Neither tank was reported to have holes. Soil samples collected in connection with the gasoline UST were analyzed for total petroleum hydrocarbons TPH by EPA Method 8015M and BTEX compounds by EPA Method 8020. Soil samples collected from the waste oil excavation were analyzed for TRPH by EPA Method 418.1. Low concentrations of TPH, ethylbenzene, and total xylenes of 34 mg/kg, 0.15 mg/kg, and 0.18 mg/kg, respectively, were detected in a sample collected from the stockpile, but no residual impacts were identified in the samples collected directly from the excavation, piping, or dispenser areas. Low levels of TRPH (10-21 mg/kg) were detected at each end of the waste oil tank. ERI concluded that no further work was necessary. The LACDPW issued a closure letter for the UST removals dated November 26, 1996, a copy of which is included in **Appendix L**.

In February 1996, a replacement 12,000-gallon gasoline UST was installed in essentially the same location as the first along with a new dispenser island and canopy. The waste oil UST was replaced at the same time with a dual-compartment aboveground storage tank (AST) for the storage of both new oil and waste oil that is currently located on-site at the western end of the service building.

Underground Storage Tank Removal Report, Verizon – Irwindale Fleet Yard, GLC 071207B, 5010 Azusa Canyon Road, Irwindale, California, prepared by Shaw Environmental, Inc. (Shaw), and dated June 2009.

This report documents the activities and soil sampling results in connection with the removal of a 12,000-gallon gasoline UST from the vicinity of the northern dispenser island. The UST was removed on May 20, 2009. Confirmation samples from the excavation and stockpile were analyzed for TPHg and TPHd by EPA Method 8015B Modified, BTEX compounds and fuel oxygenates by EPA Method 8260B. All samples had non-detectable concentrations of all analytes. Shaw recommended no further action.

The LACDPW issued a closure letter for the UST removal dated December 3, 2015, a copy of which is included in **Appendix L**. Since no releases were identified, this UST closure does not represent either a *recognized environmental condition* or a *historical recognized environmental condition*.

Limited Focused Phase II Site Assessment, Site: Verizon Irwindale Plant Yard, 5010 Azusa Canyon Rd, Irwindale, CA 91706-1884, prepared by Hydrologue Inc., and dated November 26, 2001.

This report documents the results of a limited subsurface investigation on the northeastern portion of the employee parking lot, where it was observed that runoff originating from the east-adjacent industrial park at 15558-15562 Arrow Highway was flowing onto the Property. The report did not specify whether the runoff was from stormwater or some other activity. Four shallow borings were advanced to an approximate depth of one foot in the area affected by the runoff. Soil samples were analyzed for TRPH, VOCs, chromium and lead. TRPH was detected in all four shallow samples at concentrations ranging from 12 to 34 mg/kg. Chromium concentrations ranged from 10.3 to 20.2 mg/kg. Lead concentrations ranged from 5.16 to 7.47 mg/kg. No VOCs were detected. Hydrologue concluded that the hydrocarbon contamination in the samples appeared to have originated from the runoff from the adjacent industrial park. No comment was offered by Hydrologue regarding the metal concentrations. Hydrologue recommended that Verizon contact the adjacent property to improve its housekeeping practices and discontinue any industrial discharge. Hydrologue also recommended advancing four additional soil borings to a depth of 20 feet to collect background samples to compare with those from the area affected by the runoff. ATC does not know whether or not the recommendations were adopted; however, during the site reconnaissance, ATC did not observe suspicious staining in the employee parking lot near where the four shallow borings were advanced. ATC considers this finding to be an offsite potential environmental concern.

Copies of the above prior reports are included in **Appendix H**.

5.3.10 Other Historical Sources

No other historical sources were reviewed.

6.0 SITE RECONNAISSANCE

ATC conducted the site reconnaissance on October 26, 2016 and November 8, 2016. ATC was accompanied during the site reconnaissance by Mr. Mark Norton, Building Services Specialist with Frontier. ATC was also accompanied for a portion of the initial site visit by Mr. Stephen Odle, Facility Supervisor for the Property with Frontier. At the time of the site reconnaissance, Mr. Norton had been familiar with the Property for approximately one year and Mr. Odle had been familiar with the Property for approximately two months. The following is a summary of visual and/or physical observations of the property on the day of the site visit. Photographs can be found in **Appendix C**.

6.1 Methodology and Limiting Conditions

The site reconnaissance consisted of visual and/or physical observations of: the Property and improvements; adjoining sites as viewed from the Property; and, the surrounding area based on visual observations made during the trip to and from the Property. Unimproved portions of the Property (if any) were observed along the perimeter and in a general grid pattern in safely accessible areas. Building exteriors were observed along the perimeter from the ground, unless described otherwise. Access was unavailable to the roofs of the vehicle service building, the large storage building, and the supply building, as well as several locked walk-in storage containers (generally used by contractors who have the only keys). Otherwise, there were no access restrictions encountered at the property. The weather during the site reconnaissance was sunny and warm (approximately 85ºF). There were no visibility restrictions due to weather conditions.

6.2 Hazardous Substance Use, Storage, and Disposal

ATC reviewed the Property for hazardous materials storage and use, as well as indications that such materials may have been spilled or dumped. ATC's findings by area were as follows:

The Main Office: Chemical use in this building consists primarily of janitorial supplies and maintenance materials such as paint. The first-floor janitorial closet contained two 1-gallon and three 5-gallon containers of paint stored on shelving along with two 1-gallon containers of cleaner and two boxes of Borax. The first floor is lightly staffed and used for office space **(Photograph 13)**, while the upper floor is unoccupied. A mechanical room for HVAC equipment is located on the first floor at the southern end of the building. Located in this room were two large cylinders of compressed nitrogen, one 5-gallon container of water-treatment chemicals, and an air compressor with some associated oil stains **(Photograph 14)**. Based on the good condition of the concrete floor, the stains are not considered to represent an environmental concern.

The Truck Wash Tunnel and Vicinity: The truck wash tunnel is located generally in the northwestern portion of the Property, a short distance southwest of the western end of the vehicle service building. What is shown on site plans observed at the LACDPW as a subsurface soap chamber, is located along the northern edge of the tunnel at its eastern end. According to Mr. Norton, truck washing is now done with water only. On the north side of the tunnel, adjacent to the soap chamber is a fenced enclosure containing several compressors. On the western side of the compressor cage is a three-stage clarifier that receives rinse water from the wash tunnel. The interior of the clarifier could not be observed, but it is ATC's understanding that the clarifier, which was installed in 1992, is reportedly lined with sealant on the interior and exterior surfaces **(Photographs 15-17)**. To the north of the was tunnel is a hazardous materials enclosure with built-in secondary containment. Within the enclosure were two spill kits, a five-gallon gasoline can, an empty 20-gallon drum, two rag containers, and a small metal box with a closed lid. The westernmost bay of the service building is a steam cleaning bay **(Photograph 18)**. Near the rear of the bay, ATC observed a compressor and two spill trays, one with two unopened 55-gallon drums of oil, and one with one 55-gallon oil drum and a 120-pound drum of grease. No staining was observed in the drum storage area or the steam clean bay. Rinsate from the steam cleaning bay is also discharged to the aforementioned clarifier.

Vehicle Service Building: The western portion of the service building has a small office, a parts storeroom, a restroom, and six vehicle bays, within which are work stations, cabinets for tools and parts, two carriages containing pairs of oxygen and acetylene gas cylinders, two aboveground hydraulic lifts and three active in-ground hydraulic lifts **(Photograph 19)**. Along the back wall were two 55-gallon drums, one each of oil and anti-freeze and two 5-gallon containers of lubricant on a secondary containment tray **(Photograph 20)**, an aqueous parts washer **(Photograph 21)**, and a flame-resistant cabinet containing numerous aerosol cans of paint, brake cleaner, and lubricants. The first area of the eastern half of the service building has a large alignment rack, and, along the back wall, four 55-gallon and two 30-gallon drums of various types wastes including universal waste, oily rags, radiator parts, and used oil filters. None of the drums were stored within secondary containment; however, ATC did not observe associated staining on the floor surrounding the drums **(Photograph 22)**. The remainder of the building consists of offices, a break room, training rooms, or storage rooms. One storage/office area, according to site plans observed at the LACDPW, was formerly used as a steam cleaning area, with either one or two clarifiers within the building. No sign of these former clarifiers remains and the only remnants of this former steam cleaning area are a boiler in a small room at the north side of the office/storeroom and what appears to be a covered former trench drain running through the storage area.

Large Storage Building: This building has approximately three rooms, each of which contained a wide variety of surplus or aged equipment and chemical items, generally stored in shelves or cabinets. Materials stored here included paint, cleaners, small compressed gas cylinders of acetylene and map gas, refrigeration oil, vacuum pump oil, various aerosol cans, five-gallon containers of optic cable lubricant, and wire lubricant. No stains were observed in the storage rooms, but evidence of poor housekeeping was observed in the eastern room in particular **(Photographs 23-24)**. Adjacent to the storage building to the south is a large asphalt patch that was the former location of a truck scale. Nearby, a short distance farther to the south, are racks of compressed gas cylinders within a chain-link enclosure **(Photograph 25)**. On the southern side of this enclosure is a smaller rack containing seven propane forklift fuel canisters. Adjacent to the north of the storage building is a large spray booth that is being used as a storage shed for non-chemical items **(Photograph 26)**. A storage shed is shown on site plans in this same location as far back as 1966. Given this, and the fact that this spray booth is significantly larger and of different make from the spray booth referenced in a 1975 SCAQMD permit **(See Section 5.1.3)**, ATC considers it unlikely that this spray booth is the one referenced in the 1975 SCAQMD permit.

The Supply Building: Located more or less in the center of the yard, this structure contains a few small offices attached to a warehouse area holding supplies used by repair service crews. Most were non-chemical in nature and the few containers with lubricant or other supplies of the same type were unopened. The warehouse was well organized and maintained.

Employee Parking Lot: The employee parking lot is a large asphalt-paved lot abutting the main parcel to the southeast. At the northeastern corner of this lot were two large storage bins used to contain decommissioned telephone poles. The poles, which are coated with creosote, require special disposal. At the southeastern corner of the lot was a large soil pile. According to Mr. Norton, the soil, which includes gravel, is clean material used for packing around the base of telephone poles that are erected on-site for training purposes **(Photograph 27)**. The southern edge of the employee parking lot is used as a storage area for old, out-of-service equipment. No equipment of concern was noted in this area.

Hazardous and controlled wastes generated at the Property consists of waste oil and antifreeze, used oil filters, clarifier sludge, waste telephone poles, and universal wastes. According to a representative of Frontier, apart from used batteries and tires, which are removed by the suppliers, all hazardous/controlled wastes are removed by Ecology Control Industries (ECI) on a monthly basis. Hazardous wastes such as flammable or toxic materials in small containers or universal wastes are sent to a waste center located in the main yard southeast of the office building. The hazardous materials are sorted, placed in appropriately labeled drums, that in turn are stored within designated walk-in storage bins. It is not known how frequently ECI removes hazardous or controlled wastes.

6.3 Underground Storage Tanks (USTs)

With the possible exception of three 120-gallon hydraulic oil reservoirs of unknown status, no active USTs are present on-site. The access plates for three subsurface 120-gallon hydraulic oil reservoirs are present along the southern exterior of the vehicle service building **(Photograph 28**. Given that approximately five of the former in-ground hydraulic hoists have been removed, and aboveground hydraulic oil tanks appear to be serving the three active in-ground hydraulic oil lifts on-site **(see Section 6.4)**, it is assumed that the subsurface reservoirs, if present, are not in use. However, as they do not appear to have been previously assessed, the hydraulic oil reservoirs are considered to represent a *recognized environmental condition*.

At least five prior USTs have been present on-site. Two former dispenser islands are located at the northern and southern ends of the main yard. The northern dispenser has historically been used for gasoline while the southern dispenser was used for diesel.

- A 10,000-gallon gasoline UST was removed from a position northeast of the north dispenser island in November of 1988 and a 10,000-gallon diesel UST was removed from a position to the south of the south dispenser island in February 1989. Some impacted soil was associated with the diesel UST dispenser that was subsequently remediated by excavation. A closure letter for the two USTs was issued by the LACDPW on May 6, 1993. Impacted soil was later identified with the northern (i.e., gasoline) dispenser although those releases may have occurred after the replacement gasoline UST was installed. The closure letter for the north dispenser soil impacts was dated April 1, 1993.

- The diesel UST was not replaced, but in 1989, a 12,000-gallon gasoline UST was installed in a position southeast of the north dispenser island. This UST was, in turn, removed in January of 1996 along with a 1,000-gallon waste oil UST that was removed from a location along the southern side of the vehicle maintenance building. Low-level soil impacts were identified in associated with the waste oil UST. Regulatory closure for the pair of USTs was granted on November 26, 1996. A second 12,000-gallon gasoline UST was installed in the same excavation as a replacement. This UST was removed in 2009. No impacted soil was identified. A closure letter for this UST removal was issued by the LACDPW on December 3, 2015.

Copies of all closure letters are included in **Appendix L**. Based on the granting of regulatory closure, those USTs and/or dispenser areas with associated past releases are considered to represent *historical recognized environmental conditions*.

It is possible that at least one earlier UST to any of the above was present on-site, as a January 1957 building permit for a “gas pump canopy” was observed in building department files. If the associated UST(s) represents an earlier generation than that of the 10,000-gallon gasoline UST removed in November of 1988 (the earliest known with certainty), then no indication of its former location has been identified. As this suggestion of an earlier UST cannot be confirmed, it is considered to be a potential environmental concern but does not rise to the level of a *recognized environmental condition*.

6.4 Aboveground Storage Tanks (ASTs)

One 500-gallon dual-compartment AST is located on the western side of the vehicle service building within a shallow drip-containment berm **(Photograph 29)**. One compartment is used for new oil and the other for used oil. In addition, located within the service building are two small hydraulic oil ASTs, estimated to be approximately 60 gallons each. The hydraulic oil ASTs are used in connection with the in-ground hydraulic lifts located within the garage **(Photograph 30)**.

6.5 Other Petroleum Products

Apart from what has been discussed previously in Section 6.2, ATC did not observe other petroleum products.

6.6 Polychlorinated Biphenyls (PCBs)

Three pole-mounted SCE transformers are located on-site a short distance east of the southwestern corner of the Property. At least one pole-mounted transformer is located along the western sidewalk. Based on the pre-1979 age of the Property improvements, it is possible that the on-site transformers contain PCBs. No evidence of leaks or damage to the transformers was observed. SCE would be responsible for the clean-up of any PCB-impacts resulting from a leak from one of their transformers.

Another potential source of PCBs is the ballasts of fluorescent lights. Fluorescent lighting is present in the Property buildings. Based on the pre-1979 age of the Property improvements, it is possible that PCB-containing ballasts are present. During the course of regular maintenance, ballasts should be inspected for labeling indicating their PCB content. In general, any ballast not specifically labeled as not containing PCBs is presumed to contain them and will require special disposal practices when eventually discarded.

PCBs have also been used as an additive in hydraulic fluid. Approximately five removed in-ground hydraulic hoists and three active in-ground hoists are present in the service building. Two active aboveground hoists are present as well. Based on the pre-1979 age of the Property improvements, it is possible that the former hydraulic hoists have utilized hydraulic fluids containing PCBs. Given the lack of subsurface testing and/or maintenance data demonstrating the absence of leaks, the seven in-ground hoist locations are considered to represent a *recognized environmental condition*.

6.7 Unidentified Substance Containers

ATC observed one old-appearing unlabeled 55-gallon drum on the northeastern exterior side of the large storage building. Based on the weight of the drum, it was not empty, although its contents are unknown. The drum sitting on concrete and was not within secondary containment; however, there was no observed evidence of associated staining **(Photograph 31)**. Based on the apparent absence of releases from the drum, the drum is not considered to represent a *recognized environmental condition*. ATC suggests that the contents of this drum be characterized and arrangements made for its appropriate transport and disposal.

6.8 Non-hazardous Liquid/Solid Waste

Non-hazardous wastes generated at the Property consist of typical municipal refuse that are stored in standard dumpsters located in the waste sorting and storage area. Two dumpsters are designated for trash and three for recyclable materials. Athens is the waste removal firm. Mr. Norton expressed the belief that Athens emptied the standard dumpsters once per week. In addition, there are two large bins reserved for scrap metal. It is not known which firm removes this material.

Non-hazardous liquid wastes consist of sanitary sewage, stormwater runoff, and rinse water from vehicle washing.

6.9 Wastewater

As mentioned previously, apart from stormwater and municipal sewage, wastewater is generated through vehicle washing and steam cleaning. Rinsate from both areas passes through a three-stage clarifier before entering the municipal sewer system. According to Mr. Norton, the clarifier is pumped approximately every six months and the sediment is removed by ECI. The generation of waste rinse water is not considered to represent a *recognized environmental condition*.

6.10 Waste Pits, Ponds and Lagoons

ATC did not observe the presence of waste pits, ponds, or lagoons at the Property.

6.11 Sumps and Drains

One sump, reportedly for containing and recirculating soapy water is located on the northern side of the truck wash tunnel at the tunnel's east end. According to Mr. Norton, washing now utilizes water only. The sump interior was inspected during the WIP investigation of 1991 and 1992 and was found to be in good condition at that time. The observed sump is not considered to be a *recognized environmental condition* to the Property.

Drains were observed inside the truck wash tunnel and the steam cleaning bay (**refer to Photographs 15 and 18**). A small, two-inch drain was observed near the former boiler room located in the middle of the vehicle service building. In the office area outside of the boiler room, ATC observed an elongated cover plate that may overlie a former trench drain. No staining was observed near any of these drains.

6.12 Septic Systems

Two septic systems were formerly located at the Property. The first was located north of the current truck wash tunnel, which consisted of two 900-gallon septic tanks arranged end-to-end and two associated cesspools. The other septic system consisted of six septic tanks arranged in two end-to-end rows of three each and five associated cesspools. The first septic system was among the areas assessed in the WIP investigation and was granted regulatory closure. The second septic system does not appear to have been previously assessed; however, given that it served an office building, it is not considered to represent an environmental concern to the Property.

6.13 Stormwater Management System

Stormwater is conveyed from building roofs by a combination of internal drains, exterior downspouts, and gravity flow. Stormwater falling on the main yard travels by sheetflow or concrete drainage swales to Azusa Canyon Road, where it flows along the curb to the nearest municipal storm drain. Stormwater falling on the southeastern parking lot travels by sheetflow to a concrete drainage swale which carries it eastward to the adjacent railroad right-of-way.

6.14 Wells

Three vapor monitoring wells are located between the eastern end of the clarifier and extending to the northeast where the former septic tanks were located **(Photograph 32**). The wells reportedly extend to an approximate depth of 20 feet. Soil gas samples collected from the wells in 1995 had no detectable concentrations of VOCs. The soil gas sampling report **(see Section 5.3.9)** indicated that only two wells were installed and sampled, but three are present on-site. It is not known when the third well was installed.

A 1956 site plan observed in the LACDPW file references the installation of a dry well at the Property. The well is shown on the plan as connected to a truck scale that was formerly located on the east side of the Property adjacent to the south of the current large storage building. Presumably the well was used to drain rain water that might have seeped into the cavity beneath the scale. It is possible that oil and grease may have been discharged to the subsurface through the well. The well was shown in a detail as extending from 3 feet six inches below the surface to a depth of 9 feet six inches. ATC estimated from the plan that the well was approximately 25 feet north of the truck scale, which would place it beneath the large storage building (constructed later in 1966). The truck scale was removed at an unknown date, but it is assumed that the drywell is likely still present. Because of the former potential for discharging petroleum products to the subsurface, the former dry well is considered to represent a *recognized environmental condition*.

6.15 Other

No other issues of environmental concern were observed during the Property reconnaissance.

7.0 SUBSURFACE VAPOR MIGRATION

ATC conducted a limited screening for potential vapor encroachment conditions (VECs) that may affect the property. The VEC screening focused on the current and historical usage of the property and also utilized the aforementioned regulatory agency database report provided by EDR to evaluate identified Chemicals of Concern (COCs), including petroleum hydrocarbons. To identify the area of concern (AOC) for contaminated sites with non-petroleum hydrocarbon COCs, ATC utilized the approximate minimum search distance defined by ASTM E 2600-10 of 1,760 feet (1/3 mile) from the property boundary for COC-contaminated sites. For sites contaminated with petroleum hydrocarbon COCs, ATC utilized the AOC approximate minimum search distance of 528 feet (1/10 mile). The AOC was adjusted accordingly based on review of physical setting characteristics, known release information, property and land features, groundwater flow direction, and soil type, et al.

ASTM's Vapor Encroachment guidance indicates that when groundwater flow direction can be estimated or determined, the cross-gradient or downgradient radius distances can be significantly reduced. The EDR VES report calculates the reduced AOC distances when considering groundwater flow direction by utilizing the following default distances, which were determined using the Buonicore Methodology: (non-petroleum hydrocarbon COCs) 1,760 feet in the upgradient direction; 365 feet in the cross-gradient direction; and 100 feet in the downgradient direction and (petroleum hydrocarbon COCs) 528 feet in the upgradient direction; 165 feet in the cross-gradient direction if Light, Non-Aqueous Phase Liquid, (LNAPL i.e. floating product) is suspected; 95 feet in the cross-gradient direction if no LNAPL is suspected; 100 feet in the downgradient direction (LNAPL suspected); and 30 feet in the downgradient position (LNAPL not suspected).

The screening was further refined by evaluating the Critical Distance (CD) factor. The CD is the upper distance a vapor may migrate through soil in the vadose zone assuming the path of least resistance is directly from the closest boundary of the contaminated media (i.e. groundwater or soil) to the nearest property boundary. For non-petroleum hydrocarbon COCs, the CD is 100 feet. For LNAPL petroleum hydrocarbon COCs, the CD is also 100 feet. For dissolved petroleum hydrocarbon COCs, the CD is 30 feet.

ATC reviewed potential sources of COCs from the facilities reported on the EDR database report.

The following condition was identified as a VEC:

- A soil gas survey conducted at the Property by CDM in 1991 identified comparatively low levels of total VOCs at depths of four and eight feet bgs in areas beneath the central portion and western side of the vehicle maintenance building that do not appear to have been remediated. Remnant vapors beneath the building at shallow depths are considered to represent a VEC. Given that the RWQCB chose to exclude these areas from required remediation, the remnant vapors are not considered to represent a *recognized environmental condition*.

The regional groundwater impacts that characterize the San Gabriel Valley Area 2 NPL site are below the CD and therefore not considered to represent a VEC for the Property. Due to the depth to groundwater, all nearby release sites are considered unlikely to represent a VEC to the Property.

8.0 INTERVIEWS

The following persons were interviewed to obtain information regarding *recognized environmental conditions* in connection with the property:

INTERVIEW SUMMARY				
Role	**Name**	**Title/Company**	**Years Assoc. With Property**	**Interview Type**
EH&S	Masood Choudhury	Manager, Environmental, Health & Safety	16	Email
Site Contact / Escort	Mr. Stephen Odle	Facility Supervisor / Frontier Communications Corp.	Approximately two months	In person
Escort	Mr. Mark Norton	Building Services Specialist / Frontier Communications Corp.	One	In person

Not included in this listing are those governmental employees that were contacted solely for the purpose of retrieving public information pertaining to the property and who would not be expected to have first-hand knowledge of *recognized environmental conditions* at the property.

ATC was unable to interview previous owners or operators of the Property. In addition, the escorts did not have extensive information regarding past activities at the Property beyond approximately one year.

Pertinent information from the interviews is discussed in applicable sections of this report with details (including failed attempts to interview, if any) documented on Record of Communication forms in **Appendix J**.

9.0 OTHER ENVIRONMENTAL CONDITIONS

9.1 Asbestos-Containing Material (ACM)

ATC conducted a limited visual survey for the presence of readily accessible suspect asbestos-containing materials (ACM) within the Property buildings. The intent of the building survey was to identify suspect ACM. No testing of these materials was conducted and, for purposes of this report, the identified materials have been assumed to be ACM. No destructive means were utilized to gain access to hidden or inaccessible areas such as pipe chases, wet-columns, wall voids and ceiling cavities.

Suspect materials observed during the course of the survey included wallboard/joint compound, baseboard, resilient floor tiles (12"x12" and 9"x9"), resilient sheet flooring, acoustical ceiling panels, and thermal system insulation (pipe wrap) (**refer to Photograph 13**). The pipe wrap, located in the HVAC room on the ground floor of the main office, has a warning label indicating that it was known to contain asbestos (**refer to Photograph 14**). Mr. Norton indicated that he had no knowledge of an asbestos Operations and Maintenance (O&M) plan at the facility.

Suspect materials were observed in fair to good condition. Based on the observed condition of the suspect ACM, ATC did not identify any immediate environmental concerns, apart from the need to properly train personnel that come into contact with known or presumed ACM.

ACM would be considered an environmental concern should renovation or demolition activities occur. ACM is outside the scope of work of ASTM Practice E1527-13 and therefore, the presence of ACM is not considered to represent a *recognized environmental condition*.

9.2 Radon

Radon is a naturally occurring colorless, odorless gas that is a by-product of the decay of radioactive materials potentially present in bedrock and soil. The EPA guidance action level for annual residential exposure to radon is 4.0 picoCuries per liter of air (pCi/L). The guidance action level is not a regulatory requirement for private owners of commercial real estate, but is commonly used for comparison purposes to suggest whether further action at a building may be prudent.

ATC's review of published radon data indicates that the Property is located in a county designated by the EPA as Zone 2. Zone 2 areas have a predicted radon concentration of greater than or equal to 2.0 pCi/L and less than or equal to 4.0 pCi/L. According to statistical data provided by EDR, an EPA survey of 63 sites in Los Angeles County revealed two percent with radon concentrations in excess of 4.0 pCi/L. Additionally, a state survey of five sites located within the same zip code as the Property identified none with radon concentrations in excess of 4.0 pCi/L.

9.3 Lead in Drinking Water

According to a 2016 Valley County Water District water-quality report, the potable water supplied to the Property neighborhood, meets all state and federal standards for drinking water, including lead.

9.4 Lead-Based Paint (LBP)

Based on the ages of the Property improvements (1957-1966), it is possible that LBP has been used on the Property in the past. Prior to any renovation or demolition activity, a survey for lead-containing materials should be conducted in all areas likely to be disturbed. LBP is outside the scope of ASTM; therefore, the potential presence of LBP is not considered to represent a *recognized environmental condition*.

9.5 Mold Screening

ATC conducted a screening survey for mold conditions at the Property. The screening consisted of limited interview, document review (if applicable) and physical observation.

ATC spoke with Mr. Mark Norton, Building Services Specialist at the Property for approximately one year. Mr. Norton indicated that there have been no roof leaks or significant water-intrusion events within the time he was associated with the Property. Furthermore, Mr. Norton could not recall previous mold occurrences at the property or prior surveys for mold. Accordingly, there was no prior mold documentation for ATC to review.

During the site reconnaissance, ATC did not observe suspect mold at the Property or, apart from occasional water stains on acoustical ceiling panels on the first floor of the office, indications of current or former water intrusion events conducive to mold growth.

Mold is outside the Scope of ASTM Practice E 1527-13 and, therefore, the potential presence of Mold is not considered a *recognized environmental condition*.

9.6 Additional Client Requested Conditions

No additional client requested conditions were included in this report.

10.0 REFERENCES

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11.0 TERMINOLOGY

The following provides definitions and descriptions of certain terms that may be used in this report. Italics indicate terms that are defined by ASTM Standard Practice E1527-13. The Standard Practice should be referenced for further detail (such as the precise wording), related definitions or additional explanation regarding the meaning of terms.

recognized environmental condition(s) (REC) - the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

material threat - a physically observable or obvious threat which is reasonably likely to lead to a release that, in the opinion of the environmental professional (EP), is threatening and might result in impact to public health or the environment. An example might include an aboveground storage tank system that contains a hazardous substance and which shows evidence of damage such that it may cause or contribute to tank integrity failure with a release of contents to the environment.

de minimis condition – is a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of the appropriate governmental agencies. An example might include a release of *hazardous substances* or *petroleum products* that could reasonably and foreseeably result in a concentration exceeding the applicable regulatory agency risk-based residential standards or substantial damage to natural resources. The risk of that exposure or damage would represent a threat to human health or the environment. If an enforcement action would be less likely than not, then the condition is considered to be generally not likely the subject of an enforcement action. A condition determined to be *de minimis* is not a *REC* or *controlled recognized environmental condition (CREC)*.

historical recognized environmental condition(s) (HREC) - a past release of any *hazardous substances* or *petroleum products* that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a *HREC*, the EP must determine whether the past release is a *REC* at the time the assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a *REC* at the time the Phase I ESA is conducted, the condition will be reported in **Section 1.2** the Findings and Conclusions Summary table as a *REC*.

controlled recognized environmental condition (CREC) - a *recognized environmental condition* resulting from a past release of *hazardous substances* or *petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitation, institutional controls, or engineering controls). Per E1527-13, a *CREC* will be reported in the **Section 1.2** Findings and Conclusions Summary table as a *CREC* and a *REC*.

migrate/migration - refers to the movement of *hazardous substances* or *petroleum products* in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface.

APPENDIX A

SITE LOCATION MAP
(Topographic Map)

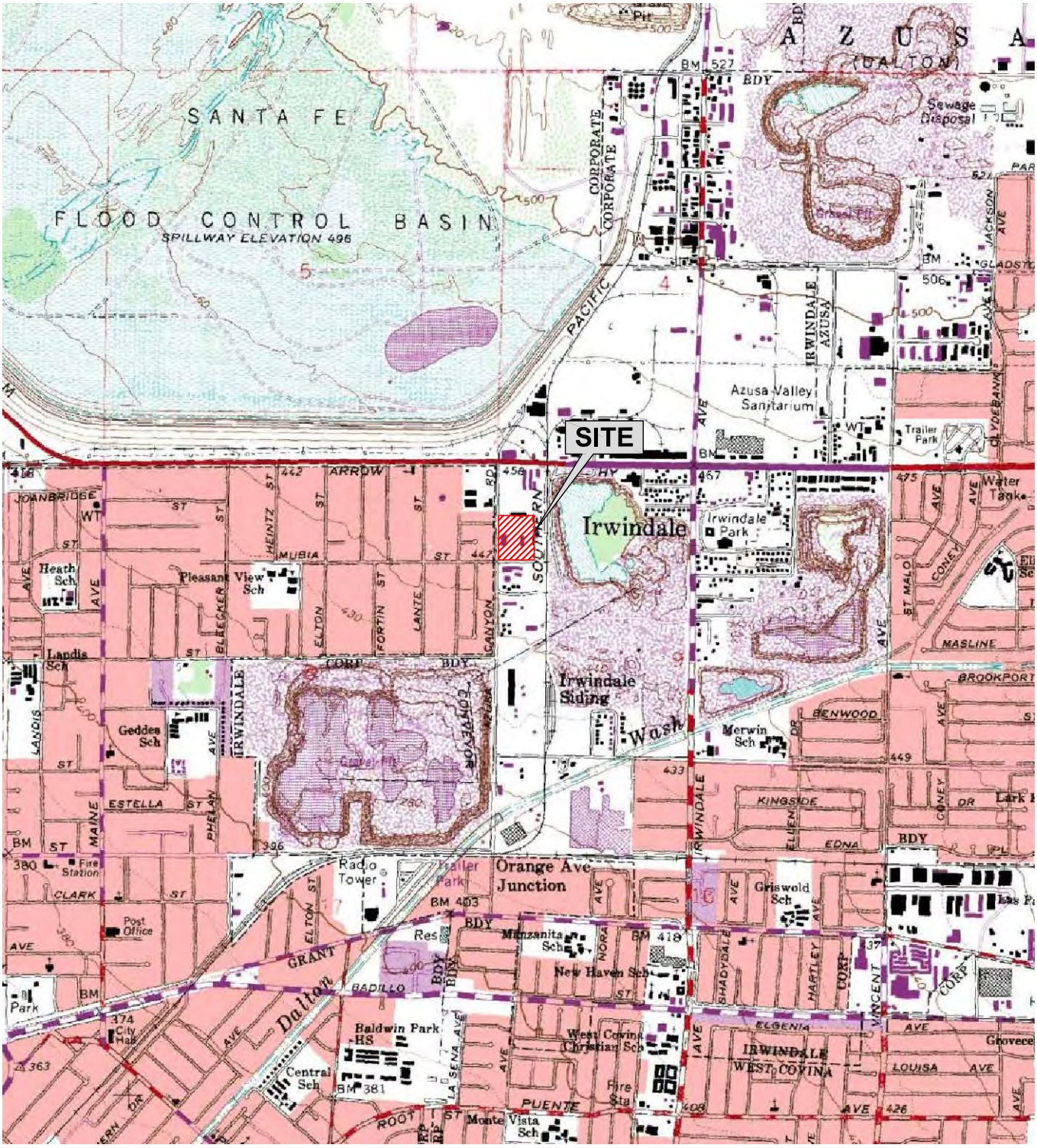

FIGURE 1

SITE LOCATION MAP

IRWINDALE GWC
5010 AZUSA CANYON ROAD
IRWINDALE, CALIFORNIA

SOURCE: USGS Baldwin Park, California Quadrangle, Provisional Edition 1981

ATC
ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

PROJECT NUMBER: 1011600776	PHASE: 3
REVIEW BY: S. ANDERSON	DRAWN BY: DAW
SCALE: 1:24,000	DATE: 11/11/2016

FILE: W:\Frontier Communications (formerly Verizon)\1011600776 -9 Locations in CA - ESAs\Irwindale\Cad\1011600776_Irwindale.dwg Nov 11, 2016

APPENDIX B

SITE PLAN
and
SITE VICINITY MAP

LEGEND:

Building Outline

Property Outline

N

FIGURE 2

SITE VICINITY PLAN

IRWINDALE GWC
5010 AZUSA CANYON ROAD
IRWINDALE, CALIFORNIA

SOURCE: Google Maps Pro - Imagery Date Feb-2-2016

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Ph: (323) 517-9780 *** Fax: (323) 517-9781

PROJECT NUMBER: 1011600776	PHASE: 3
REVIEW BY: S. ANDERSON	DRAWN BY: DAW
APPROXIMATE SCALE: 1" = 150'	DATE: 11/11/2016

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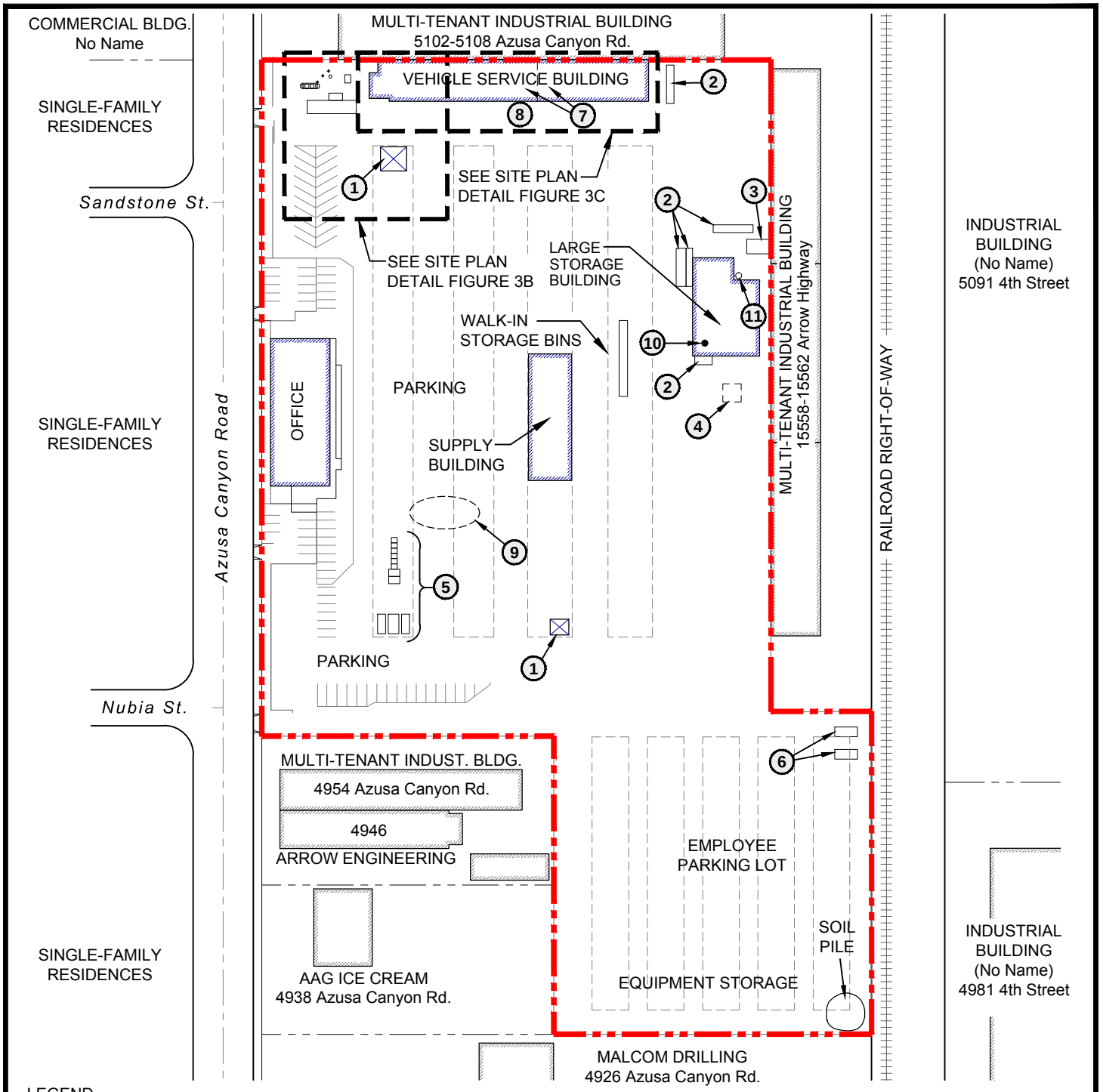

LEGEND

- FENCE
- PROPERTY BOUNDARY
- (1) DISPENSER CANOPY (Inactive)
- (2) WALK-IN STORAGE BIN (No Access)
- (3) STORAGE BUILDING CONVERTED FROM PAINT SPRAY BOOTH
- (4) COMPRESSED GAS CYLINDER STORAGE
- (5) CURRENT WASTE STORAGE AND PICK-UP AREA
- (6) BAD POLE STORAGE BINS
- (7) FORMER CLARIFIERS
- (8) FORMER WASTE OIL UST
- (9) FORMER SEPTIC SYSTEM (Approx.)
- (10) DRY WELL LOCATION (Approx.)
- (11) UNLABELED DRUM

N

FIGURE 3A

SITE PLAN

IRWINDALE GWC
5010 AZUSA CANYON ROAD
IRWINDALE, CALIFORNIA

CAD FILE: 1011600776_Irwindale.dwg

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Monterey Park, CA 91755
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PROJECT NUMBER: 1011600776	PHASE: 3
REVIEW BY: S. ANDERSON	DRAWN BY: DAW
APPROXIMATE SCALE: 1" = 100'	DATE: 12/12/2016

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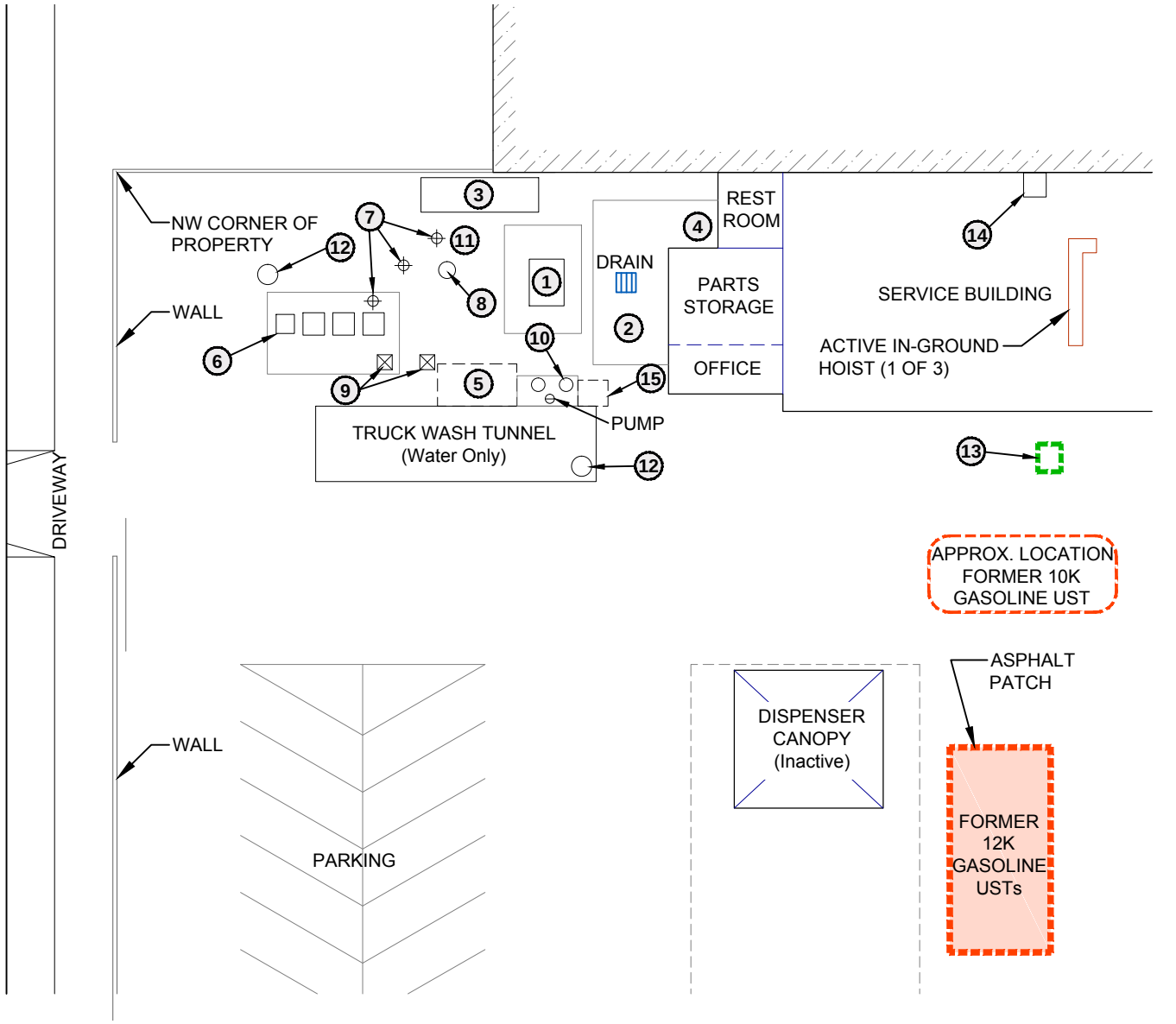

LEGEND

1. DUAL COMPARTMENT AST FOR NEW OIL AND WASTE OIL
2. STEAM CLEANING PAD
3. WASTE/DRUM STORAGE ENCLOSURE
4. DRUM AND COMPRESSOR STORAGE
5. COMPRESSOR ENCLOSURE
6. CLARIFIER
7. VAPOR MONITORING WELL
8. CIRCULAR ACCESS PLATE (Purpose unknown)
9. SAMPLE BOX FOR TRUCK WASH OR STEAM CLEANING AREA
10. SOAP CHAMBERS
11. FORMER SEPTIC TANK LOCATION (Estimated)
12. FORMER CESSPOOL LOCATION (Estimated)
13. HYDRAULIC OIL RESERVOIR (1 of 3)
14. HYDRAULIC OIL AST (1 of 2)
15. FORMER HAZ WASTE STORAGE AREA

N

FIGURE 3B

SITE PLAN DETAIL

IRWINDALE GWC
5010 AZUSA CANYON ROAD
IRWINDALE, CALIFORNIA

CAD FILE: 1011600776_Irwindale.dwg

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PROJECT NUMBER: 1011600776	PHASE: 3
REVIEW BY: S. ANDERSON	DRAWN BY: DAW
APPROXIMATE SCALE: 1" = 30'	DATE: 12/12/2016

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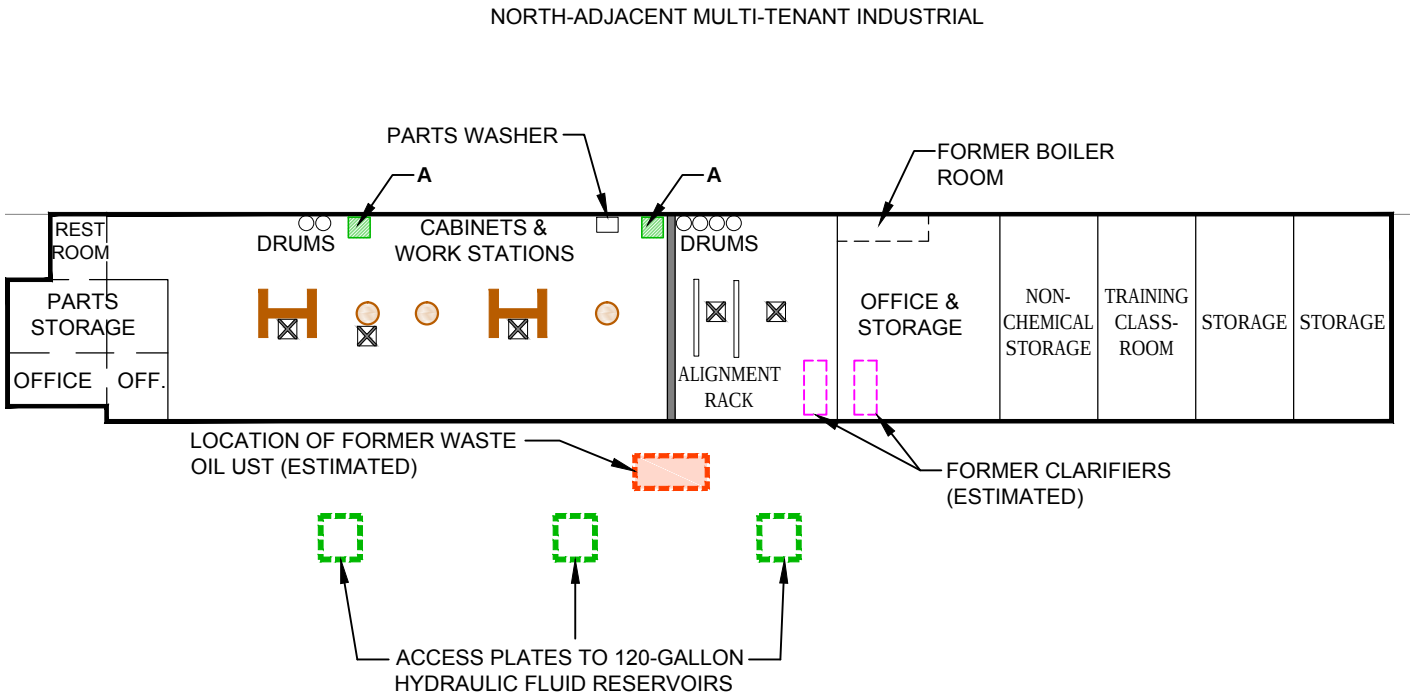

LEGEND

- H — ABOVEGROUND LIFT
- ⊠ — FORMER IN-GROUND LIFT LOCATION
- ○ — ACTIVE IN-GROUND LIFT LOCATION
- A — HYDRAULIC FLUID AST LOCATION

N

FIGURE 3C

SITE PLAN DETAIL

IRWINDALE GWC
5010 AZUSA CANYON ROAD
IRWINDALE, CALIFORNIA

CAD FILE: 1011600776_Irwindale.dwg

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BUILDING SCIENCES • MATERIALS TESTING
25 Cupania Circle
Monterey Park, CA 91755
Ph: (323) 517-9780 *** Fax: (323) 517-9781

PROJECT NUMBER: 1011600776	PHASE: 3
REVIEW BY: S. ANDERSON	DRAWN BY: DAW
APPROXIMATE SCALE: NONE	DATE: 12/12/2016

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APPENDIX C

SITE PHOTOGRAPHS

Photograph No. 1: The entrance to the Property main office building. East direction view.

Photograph No. 2: Northeast direction view of the vehicle service building.

Photograph No. 3: The truck wash tunnel, northeast direction view.

Photograph No. 4: The supply building, east direction view.

Photograph No. 5: The large storage building, northeast direction view.

Photograph No. 6: One of the two inactive dispenser islands, southwest direction view.

Photograph No. 7: The north-adjacent multi-tenant industrial building, east direction view.

Photograph No. 8: The east-adjacent multi-tenant industrial building, north direction view.

Photograph No. 9: The east-adjacent railroad right-of-way, beyond which is an industrial building at 4981 4th Street.

Photograph No. 10: The south-adjacent multi-tenant building at 4954 Azusa Canyon Road, south direction view.

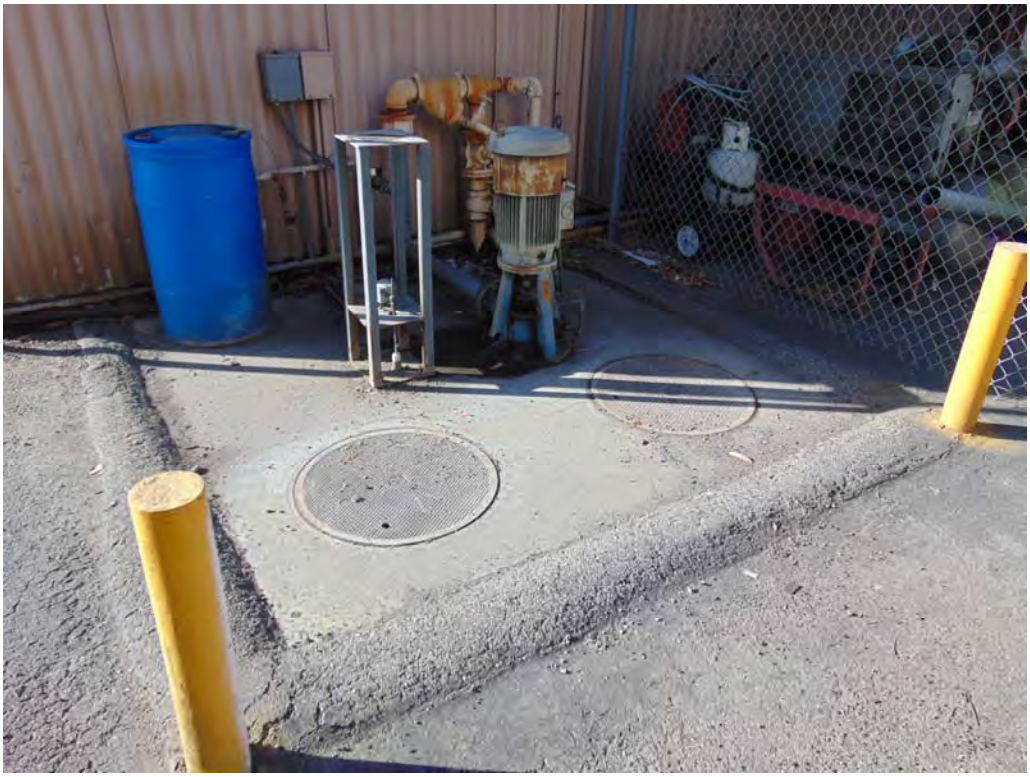
Photograph No. 11: South direction view of the south-adjacent yard at Malcolm Drilling.

Photograph No. 12: The west-adjacent residential neighborhood, southwest direction view.

Photograph No. 13: A typical view of the first-floor interior of the main office building.

Photograph No. 14: The interior of the HVAC room in the main office building.

Photograph No. 15: West-direction view along the interior of the truck wash tunnel.



Photograph No. 16: The former soap sump on the northern side of the truck wash tunnel.

Photograph No. 17: The clarifier alongside of the truck wash tunnel, west direction view.

Photograph No. 18: The steam cleaning area on the west side of the service building.

Photograph No. 19: One of three on-site in-ground lifts (right) and an aboveground lift. Former lifts are in each location as well. Note the hydraulic oil AST against the wall beneath the fan at the right.

Photograph No. 20: Drum storage in the vehicle service building.

Photograph No. 21: An aqueous parts washer in the vehicle service building.

Photograph No. 22: Various waste drums in the vehicle storage building.

Photograph No. 23: Some of the stored items in the east room of the large storage building.

Photograph No. 24: A storage cabinet in the southern room of the large storage building.

Photograph No. 25: Compressed gas cylinder storage area south of the large storage building, east direction view.

Photograph No. 26: Side view of a spray booth used as a storage shed, north direction view.

Photograph No. 27: A soil pile at the southeast corner of the Property, southeast direction view.

Photograph No. 28: Access plate to one of three subsurface hydraulic oil reservoirs located along the south side of the vehicle service building.

Photograph No. 29: The 500-gallon oil AST located at the west side of the service building, east direction view.

Photograph No. 30: One of two hydraulic oil ASTs inside the service building.

Photograph No. 31: An unlabeled drum stored on the northeast side of the large storage building.

Photograph No. 32: One of the three vapor monitoring wells on-site. Another may be seen at the upper left, adjacent to the clarifier.

APPENDIX D

CLIENT PROVIDED DOCUMENTATION

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APPENDIX E

REGULATORY DATABASE REPORT

Frontier Irwindale
5010 Azusa Canyon Road
Baldwin Park, CA 91706

Inquiry Number: 4765772.2s
October 28, 2016

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Government Records Searched/Data Currency Tracking	GR-1

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Physical Setting Source Addendum	A-1
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Physical Setting Source Map	A-7
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Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

5010 AZUSA CANYON ROAD
BALDWIN PARK, CA 91706

COORDINATES

Latitude (North):	34.1042500 - 34° 6' 15.30''
Longitude (West):	117.9418620 - 117° 56' 30.70''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	413124.1
UTM Y (Meters):	3773920.8
Elevation:	449 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5619056 BALDWIN PARK, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140515
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
5010 AZUSA CANYON ROAD
BALDWIN PARK, CA 91706

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	VERIZON CA INC IRWIN	5010 AZUSA CANYON RD	HAZNET		TP
A2	FRONTIER CALIFORNIA	5010 AZUSA CANYON RD	RCRA-SQG		TP
A3	GTE CALIFORNIA	5010 AZUSA CANYON RD	UST		TP
A4	GENERAL TELEPHONE CO	5010 AZUSA CANYON RD	LUST		TP
A5	GENERAL TELEPHONE CO	5010 AZUSA CNYN	HIST CORTESE		TP
A6	VERIZON CALIFORNIA	5010 AZUSA CANYON RD	LOS ANGELES CO. HMS		TP
A7	GENERAL TELEPHONE CO	5010 AZUSA CYN RD.,	RGA LUST		TP
A8	VERIZON CALIFORNIA I	5010 AZUSA CANYON RO	FINDS, ECHO		TP
A9	GENERAL TELEPHONE CO	5010 N AZUSA CANYON	HIST UST, HAZNET		TP
A10	GENERAL TELEPHONE	5010 N AZUSA CANYON	SWEEPS UST, WIP		TP
A11	FRONTIER CALIFORNIA	5010 AZUSA CANYON RD	LOS ANGELES CO. HMS		TP
A12	VERIZON CALIFORNIA	5010 AZUSA CANYON RD	LOS ANGELES CO. HMS		TP
A13	GENERAL TELEPHONE CO	5010 AZUSA CANYON RD	RGA LUST		TP
Reg	SAN GABRIEL VALLEY		AOCONCERN	Same	1 ft.
Reg	SAN GABRIEL VALLEY (	SUNSET & SAN BERNARD	NPL, SEMS, US ENG CONTROLS, ROD, PRP	Same	1 ft.
B14	FORD PRINTING & MAIL	5102 AZUSA CANYON RD	WIP	Higher	46, 0.009, NW
B15	KARL BRYAN PLUMBING	5029 AZUSA CANYON RD	WIP	Higher	102, 0.019, West
C16	D-L MACHINE SHOP	4946 AZUSA CANYON RD	WIP	Lower	111, 0.021, SSW
C17		4946 AZUSA CANYON R	EDR Hist Auto	Lower	111, 0.021, SSW
C18	ADVANCE MARINE & DEV	4954 AZUSA CANYON RD	WIP	Lower	140, 0.027, SSW
C19		4954 AZUSA CANYON R	EDR Hist Auto	Lower	140, 0.027, SSW
B20	PLASTECH TRANSPARENC	5108 AZUSA CANYON RD	WIP	Higher	140, 0.027, NNW
B21	IMPERIAL HORIZON	5116 AZUSA CANYON RD	WIP	Higher	140, 0.027, NNW
22	ALBERT C. CLEGG & SO	4945 AZUSA CANYON RD	WIP	Lower	200, 0.038, SW
C23	RODRIQUEZ TRUCKING	4938 AZUSA CANYON RD	LUST, LOS ANGELES CO. HMS	Lower	228, 0.043, SSW
C24	RODRIGUEZ TRUCKING,	4938 AZUSA CANYON RD	WIP	Lower	228, 0.043, SSW
D25	HARPENG MATCH PLATE	4910 AZUSA CANYON RD	WIP	Lower	250, 0.047, South
D26	HARPENG MATCH PLATE	4910 AZUSA CANYON RD	WIP	Lower	250, 0.047, South
E27	ORECO DUCT SYSTEMS,	5119 AZUSA CANYON RD	WIP	Higher	317, 0.060, NNW
F28	MALCOLM DRILLING CO	4926 N AZUSA CANYON	RCRA-SQG, FINDS, EMI, LOS ANGELES CO. HMS, ECHO	Lower	385, 0.073, SSW
F29	CM2 COMPANY INC	4926 AZUSA CANYON	SWEEPS UST	Lower	385, 0.073, SSW
F30	MALCOLM DRILLING CO	4926 AZUSA CANYON RD	UST	Lower	385, 0.073, SSW
F31	CMZ COMPANY	4926 N AZUSA CANYON	LOS ANGELES CO. HMS, WIP	Lower	385, 0.073, SSW
D32		4900 AZUSA CANYON R	EDR Hist Auto	Lower	398, 0.075, SSW
D33	ACTIVE AIRCRAFT WELD	4848 AZUSA CANYON RD	WIP	Lower	444, 0.084, South
34	CALIFORNIA COMMUNITY	5091 004TH ST	AST	Lower	451, 0.085, East
G35	LA CO FD FIRE STA #0	15546 ARROW HWY	SWEEPS UST, HIST UST, LOS ANGELES CO. HMS	Higher	478, 0.091, NNE
F36	UTILITY DISPOSAL COM	4854 AZUSA CANYON RD	WIP	Lower	489, 0.093, SSW
E37	NELSON DESIGN & FABR	5143 AZUSA CANYON RD	WIP	Higher	493, 0.093, NNW

MAPPED SITES SUMMARY

Target Property Address:
5010 AZUSA CANYON ROAD
BALDWIN PARK, CA 91706

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
E38	TOM CHATSUWAN STRETC	5145 AZUSA CANYON RD	WIP	Higher	499, 0.095, NNW
E39	J C CANVAS	5145 AZUSA CANYON RD	WIP	Higher	499, 0.095, NNW
E40	MITCH'S AUTO	5151 AZUSA CANYON RD	WIP	Higher	516, 0.098, NNW
E41	F. M. DIE	5153 AZUSA CANYON RD	WIP	Higher	522, 0.099, NNW
E42	C. O. X.	5155 AZUSA CANYON RD	WIP	Higher	527, 0.100, NNW
E43	TOMCO PRODUCTS	5157 AZUSA CANYON RD	WIP	Higher	533, 0.101, NNW
E44	STUART TOOL SERVICE	15426 E ARROW HWY	WIP	Higher	541, 0.102, NNW
E45	NICKS CUSTOM WELDING	5163 AZUSA CANYON RD	WIP	Higher	550, 0.104, NNW
E46		5163 AZUSA CANYON R	EDR Hist Auto	Higher	550, 0.104, NNW
E47	OCCUPANT	5165 AZUSA CANYON RD	WIP	Higher	556, 0.105, NNW
E48		5167 AZUSA CANYON R	EDR Hist Auto	Higher	561, 0.106, NNW
E49	OCCUPANT	5167 AZUSA CANYON RD	WIP	Higher	561, 0.106, NNW
E50	CALIFORNIA BOWLING S	5169 AZUSA CANYON RD	WIP	Higher	567, 0.107, NNW
G51	A. J. BREWER SPECILI	15558 ARROW HWY	WIP	Higher	627, 0.119, NNE
G52	CARTER'S METAL FABRI	15560 ARROW HWY	WIP	Higher	627, 0.119, NNE
G53	PLASTECH	15558 ARROW HWY	WIP	Higher	627, 0.119, NNE
G54	CHEZ CARRIE CATERING	15556 ARROW HWY	WIP	Higher	627, 0.119, NNE
G55	JENDEN WEST	15556 ARROW HWY	WIP	Higher	627, 0.119, NNE
G56	PLASTECH TRANSPARENC	15554 E ARROW HWY	WIP	Higher	627, 0.119, NNE
G57		15556 ARROW HWY	EDR Hist Auto	Higher	627, 0.119, NNE
G58	SAAVEDRA WOOD PROD &	15560 ARROW HWY	WIP	Higher	627, 0.119, NNE
G59	A-ARTISTIC PRINTING	15558 ARROW HWY	WIP	Higher	627, 0.119, NNE
H60	GIANGREGORIO CONSTRU	15480 ARROW HWY	WIP	Higher	651, 0.123, NNW
H61	NLE, INC.	15480 ARROW HWY	WIP	Higher	651, 0.123, NNW
H62	ELEKTRA IND SUPPLY I	15480 ARROW HWY	WIP	Higher	651, 0.123, NNW
H63	NO FRILLS TRUCKING I	15480 ARROW HWY	WIP	Higher	651, 0.123, NNW
H64	NO FRILLS TRUCKING	15480 ARROW HWY	WIP	Higher	651, 0.123, NNW
H65	DBEV ENVIRONMENTAL S	15480 ARROW HWY STE	RCRA NonGen / NLR, FINDS, ECHO	Higher	651, 0.123, NNW
H66	OCCUPANT	15472 E ARROW HWY	WIP	Higher	662, 0.125, NNW
H67	OCCUPANT	15470 E ARROW HWY	WIP	Higher	665, 0.126, NNW
H68	ACELCO	15470 ARROW HWY	RCRA-SQG, FINDS, ECHO	Higher	665, 0.126, NNW
H69	WARSAW ENGINEERING,	15468 ARROW HWY	WIP	Higher	668, 0.127, NNW
H70	OCCUPANT	15468 E ARROW HWY	WIP	Higher	668, 0.127, NNW
H71	STUART'S TOOL SERVIC	15464 ARROW HWY	WIP	Higher	675, 0.128, NNW
H72	ZOLA JOHN C LABORATO	15460 ARROW HWY	RCRA-SQG, FINDS, ECHO	Higher	683, 0.129, NNW
H73	THE 3 AMINGOS TIRE S	15460 E ARROW HWY	WIP	Higher	683, 0.129, NNW
I74	ARROW PIPE & SUPPLY	15563 ARROW HWY	SWEEPS UST, HIST UST, LOS ANGELES CO. HMS	Higher	720, 0.136, North
H75	JASCO WOOD PRODUCTS	15519 ARROW HWY.	SLIC, EMI, WIP	Higher	721, 0.137, NNW
H76	KENT'S BODY WKS, KEN	15444 E ARROW HWY	EMI, WIP	Higher	721, 0.137, NNW

MAPPED SITES SUMMARY

Target Property Address:
5010 AZUSA CANYON ROAD
BALDWIN PARK, CA 91706

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
H77	KENTS BODY WORKS	15444 ARROW HWY	RCRA-SQG, FINDS, ECHO	Higher	721, 0.137, NNW
H78	DIA-CHROME INC.	15509 ARROW HWY	WIP	Higher	723, 0.137, NNW
H79	HARRY HILL VOLKSWAGE	15507 ARROW HWY	WIP	Higher	724, 0.137, NNW
H80	HARRY HILL IMPORTS	15507 ARROW HWY	RCRA-SQG, FINDS, ECHO	Higher	724, 0.137, NNW
G81	PHILIPS/LAU INDUSTRI	15601 ARROW HWY	SWEEPS UST, HIST UST, EMI, LOS ANGELES CO. HMS	Higher	729, 0.138, NNE
J82	UNITED RENTALS INC #	15402 ARROW HIGHWAY	HIST UST, HAZNET	Higher	732, 0.139, NW
J83	U.S. RENTALS	15402 ARROW HWY E	LUST, HIST CORTESE	Higher	732, 0.139, NW
J84	U S RENTALS	15402 E ARROW HWY	LOS ANGELES CO. HMS, WIP	Higher	732, 0.139, NW
J85	ARROW EQUIP RENTAL	15402 ARROW HWY	SWEEPS UST, CA FID UST	Higher	732, 0.139, NW
J86	US RENTALS INC	15402 ARROW HWY	UST	Higher	732, 0.139, NW
J87	U S RENTALS 51	15402 E ARROW HWY	RCRA NonGen / NLR, FINDS, ECHO	Higher	732, 0.139, NW
H88	TOMCO PRODUCTS	15438 ARROW HWY	WIP	Higher	737, 0.140, NW
H89	TOMCO	15438 ARROW HWY	WIP	Higher	737, 0.140, NW
J90	CHAPMAN APPLIANCE WA	15406 ARROW HWY	WIP	Higher	744, 0.141, NW
H91	KNUDTSON REFINISHING	15434 ARROW HWY	FINDS, EMI, WIP	Higher	748, 0.142, NW
H92	OCCUPANT	15434 ARROW HWY	WIP	Higher	748, 0.142, NW
H93	J. D. PRECISION	15430 ARROW HWY	WIP	Higher	758, 0.144, NW
G94	PATTON SALES CORPORA	15563 EAST ARROW HIG	NPDES, WIP	Higher	764, 0.145, North
H95	P & M AUTOMOTIVE	15428 ARROW HWY	WIP	Higher	765, 0.145, NW
K96	CARBIDE DIE & MGF. C	15615 E ARROW HWY	WIP	Higher	797, 0.151, NNE
K97	XTREME AUTO COLLISIO	15629 ARROW HWY	HAZNET, WIP	Higher	823, 0.156, NNE
I98	CHASE TIRE SERVICE	15545 E ARROW HWY	LOS ANGELES CO. HMS, WIP	Higher	835, 0.158, North
99	HUY FONG FOODS INC	4800 AZUSA CANYON RO	NPDES, WIP	Lower	955, 0.181, South
L100	GLENDORA TREE SURGER	5040 LANTE ST	WIP	Lower	972, 0.184, West
L101	NATIONAL COOLER CORP	5018 LANTE ST	WIP	Lower	972, 0.184, West
L102	SORENSEN BACKHOE	5052 LANTE ST	WIP	Higher	973, 0.184, West
K103	ATASCADERO YARD	15627 ARROW	HIST CORTESE	Higher	978, 0.185, NNE
K104	CNI MFG	15627 ARROW HWY	WIP	Higher	978, 0.185, NNE
105	J & B CEMENT CONTRAC	4938 LANTE ST	WIP	Lower	986, 0.187, WSW
J106	GENCO REBUILT PRODUC	15320 E ARROW HWY	WIP	Higher	988, 0.187, NW
M107	SEE I-5308	15700 ARROW HWY	SWEEPS UST	Higher	989, 0.187, NE
M108	UNIVERSAL MACHINES	5220 N FOURTH ST	WIP	Higher	1014, 0.192, NE
N109	MC CARON STEEL FABRI	5140 N LANTE ST	LOS ANGELES CO. HMS, WIP	Higher	1046, 0.198, WNW
M110	FOREST CITY DILLON -	15703 E ARROW HIGHWA	HIST UST	Higher	1056, 0.200, NE
M111	FEDERAL DEPOSIT INSU	15703 ARROW HWY	WIP	Higher	1056, 0.200, NE
M112	FOREST CITY DILLON-T	15703 ARROW HWY	SWEEPS UST, LOS ANGELES CO. HMS	Higher	1056, 0.200, NE
113	VALLEY ABRASIVE SHOT	15533 ARROW HWY	WIP	Higher	1057, 0.200, North
O114	HENRI'S SALES & AUTO	15312 ARROW HWY	WIP	Higher	1091, 0.207, NW
M115	BENLO COMPANY	15633 ARROW HWY	WIP	Higher	1098, 0.208, NE

MAPPED SITES SUMMARY

Target Property Address:
5010 AZUSA CANYON ROAD
BALDWIN PARK, CA 91706

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
N116	CUSTOM WOODWORKS	5103 LANTE ST	WIP	Higher	1104, 0.209, WNW
L117	RAINBOW ELECTRIC	5049 LANTE ST	WIP	Lower	1104, 0.209, West
L118	MARGETT BROS, INC.	5057 LANTE ST	WIP	Higher	1105, 0.209, West
P119	QUALITY ENGINE CENTE	15253 NUBIA ST	WIP	Lower	1108, 0.210, WSW
P120	GEX INTERNATIONAL CO	15247 NUBIA ST	WIP	Lower	1120, 0.212, WSW
P121	GEX INTERNATIONAL CO	15245 NUBIA ST	RCRA-SQG, CHMIRS, FINDS, HAZNET, ECHO	Lower	1124, 0.213, West
N122	ESCO WOODWORKING CO.	5125 LANTE ST	WIP	Higher	1132, 0.214, WNW
N123	D & J PERFORMANCE	5133 LANTE ST	WIP	Higher	1144, 0.217, WNW
N124	FRANKS & COMPANY	5133 LANTE ST	WIP	Higher	1144, 0.217, WNW
125	TOMKINS	15601 ARROW HWY	WIP	Higher	1192, 0.226, NNE
O126	E & D STEAM COIL CO.	15300 ARROW HWY	WIP	Higher	1205, 0.228, NW
127	POLMARK CONSTRUCTION	4848 LANTE ST	WIP	Lower	1228, 0.233, SW
P128	TOOL & DIE MFG, INC.	15237 NUBIA ST	WIP	Lower	1228, 0.233, West
Q129	SHANNON CASKET CO	15744 ARROW HWY	SWEEPS UST, EMI, LOS ANGELES CO. HMS, WIP	Higher	1229, 0.233, NE
Q130	SHANNON CASKET CO	15744 ARROW HWY E	LUST	Higher	1229, 0.233, NE
Q131	NONE	15744 ARROW HIGHWAY	HIST UST, HIST CORTESE, WIP	Higher	1229, 0.233, NE
M132	AMERICAN SPEEDY PRIN	15705 ARROW HWY	WIP	Higher	1273, 0.241, NE
133	IRWINDALE SHOP	4702 AZUSA CANYON RD	LUST, SWEEPS UST, HIST UST, WDS, WIP	Lower	1444, 0.273, South
134	SPECIALTY ORGANICS I	5263 N FOURTH ST	SEMS-ARCHIVE, RCRA-SQG, LUST, HIST UST, HIST...	Higher	1506, 0.285, NNE
R135	L & M METAL PRODUCTS	5108 CALMVIEW AVE	SLIC, WIP	Lower	1531, 0.290, WNW
R136	ARROW PARKING	5065 CALMVIEW AVE	LUST, HIST CORTESE, WIP	Lower	1584, 0.300, West
137	BIOSENSE WEBSTER INC	15715 ARROW HWY	RCRA-LQG, SLIC, NPDES	Higher	1634, 0.309, NE
138	AMERICAN CAPACITOR C	5367 THIRD ST	SLIC, WIP	Higher	1862, 0.353, NNE
139	IRWINDALE REDEVELOPM	4900 IRWINDALE AVE	LUST, SWEEPS UST, HIST CORTESE	Lower	2054, 0.389, ESE
S140	IRWINDALE (CONROCK)	4827 N. IRWINDALE AV	SWF/LF	Higher	2075, 0.393, ESE
S141	IRWINDALE DISPOSAL S	4827 NORTH IRWINDALE	SWF/LF	Higher	2075, 0.393, ESE
142	VALLEY CLUTCH CO. IN	5396 THIRD ST	SLIC, WIP	Higher	2182, 0.413, NNE
T143	OLIVE PIT	4407 AZUSA CANYON RO	SLIC, LDS, WIP	Lower	2213, 0.419, South
T144	SPARKLETTS DRINKING	4548 AZUSA CANYON RO	LUST, HIST UST, LOS ANGELES CO. HMS	Lower	2216, 0.420, South
145	IRWINDALE CITY OF	16034 CALLE DEL NORT	RCRA-SQG, LUST, FINDS, HAZNET, ECHO	Higher	2476, 0.469, East
U146	CROWN VALLEY THREAD	5137 N. ELTON ST.	SLIC, LOS ANGELES CO. HMS, WIP	Higher	2495, 0.473, WNW
U147	ARROW SCREW PRODUCTS	15012 E ARROW HWY	SLIC, WIP	Higher	2603, 0.493, WNW
148	DAVIS WIRE CORP	5555 IRWINDALE AVE	RCRA-LQG, ENVIROSTOR, LUST, ICIS, US AIRS, HIST...	Higher	2983, 0.565, NNE
149	AMERICAN PHARMASEAL	4401 FOXDALE AVE	SEMS, RCRA-SQG, ENVIROSTOR, FINDS, HAZNET, HIST...	Lower	3193, 0.605, SSE
150	KEMAC TECHNOLOGY INC	5462 N. IRWINDALE	RCRA-SQG, ENVIROSTOR, EMI, LOS ANGELES CO. HMS,...	Higher	3720, 0.705, NE
V151	NORAC PHARMA (S&B PH	405 S MOTOR AVE	ENVIROSTOR, SLIC, SWEEPS UST, HIST UST, HWP,...	Higher	4416, 0.836, NNE
V152	NORAC PHARMA	405 S MOTOR AVE	CORRACTS, RCRA-TSDF, RCRA-LQG, TRIS	Higher	4416, 0.836, NNE
153	CONCORDE/INTERSPACE	2009 SAN BERNADINO R	ENVIROSTOR	Lower	4498, 0.852, South
V154	BROTHERS PLATING	334 S. MOTOR AVENUE	ENVIROSTOR, HIST UST, EMI, WIP	Higher	4694, 0.889, NNE

MAPPED SITES SUMMARY

Target Property Address:
5010 AZUSA CANYON ROAD
BALDWIN PARK, CA 91706

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
W155	AZUSA LAND RECLAMATI	1201 WEST GLADSTONE	ENVIROSTOR, CHMIRS, ENF	Higher	5035, 0.954, NE
W156	CEMEX CONSTRUCTION M	1201 W GLADSTONE ST	RCRA-SQG, WMUDS/SWAT, HIST UST, US AIRS, FINDS,...	Higher	5035, 0.954, NE
157	MEC YARD	601 S VINCENT AVE	RCRA-SQG, ENVIROSTOR, SLIC, AST, SWEEPS UST, HIST...	Higher	5247, 0.994, ENE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
VERIZON CA INC IRWIN 5010 AZUSA CANYON RD IRWINDALE, CA 91706	HAZNET GEPAID: CAR000084251	N/A
FRONTIER CALIFORNIA 5010 AZUSA CANYON RD IRWINDALE, CA 91706	RCRA-SQG EPA ID:: CAR000084251	CAR000084251
GTE CALIFORNIA 5010 AZUSA CANYON RD BALDWIN PARK, CA 91706	UST Database: UST, Date of Government Version: 09/12/2016 Facility Id: 3882	N/A
GENERAL TELEPHONE CO 5010 AZUSA CANYON RD IRWINDALE, CA 91706	LUST Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 09/12/2016 Global Id: T0603704631 Global ID: T0603704631 Status: Completed - Case Closed Facility Id: R-03882 Status: Case Closed	N/A
GENERAL TELEPHONE CO 5010 AZUSA CNYN IRWINDALE, CA 91706	HIST CORTESE Reg Id: R-03882	N/A
VERIZON CALIFORNIA 5010 AZUSA CANYON RD IRWINDALE, CA 91706	LOS ANGELES CO. HMS Facility ID: 003755-I03882	N/A
GENERAL TELEPHONE CO 5010 AZUSA CYN RD., IRWINDALE, CA	RGA LUST	N/A
VERIZON CALIFORNIA I 5010 AZUSA CANYON RO IRWINDALE, CA 91706	FINDS Registry ID:: 110012216208 ECHO	N/A
GENERAL TELEPHONE CO 5010 N AZUSA CANYON IRWINDALE, CA 91706	HIST UST HAZNET	N/A

	GEPAID: CAD981394174	
GENERAL TELEPHONE 5010 N AZUSA CANYON IRWINDALE, CA 91706	SWEEPS UST Status: A Tank Status: A Comp Number: 3882 WIP Facility Status: Historical	N/A
FRONTIER CALIFORNIA 5010 AZUSA CANYON RD IRWINDALE, CA 91706	LOS ANGELES CO. HMS Facility ID: 003755-061982	N/A
VERIZON CALIFORNIA 5010 AZUSA CANYON RD IRWINDALE, CA 91706	LOS ANGELES CO. HMS Facility ID: 003755-003882	N/A
GENERAL TELEPHONE CO 5010 AZUSA CANYON RD IRWINDALE, CA	RGA LUST	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

EXECUTIVE SUMMARY

Federal RCRA generators list

RCRA-LQG ---- RCRA - Large Quantity Generators
RCRA-CESQG ---- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ---- Land Use Control Information System
US INST CONTROL ---- Sites with Institutional Controls

Federal ERNS list

ERNS ---- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---- State Response Sites

State and tribal leaking storage tank lists

INDIAN LUST ---- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---- Underground Storage Tank Listing
INDIAN UST ---- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing
VCP ---- Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS ---- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---- Waste Management Unit Database
SWRCY ---- Recycler Database
HAULERS ---- Registered Waste Tire Haulers Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---- Open Dump Inventory

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- Delisted National Clandestine Laboratory Register

HIST Cal-Sites ---- Historical Calsites Database
SCH ---- School Property Evaluation Program
CDL ---- Clandestine Drug Labs
Toxic Pits ---- Toxic Pits Cleanup Act Sites
US CDL ---- National Clandestine Laboratory Register

Local Land Records

LIENS ---- Environmental Liens Listing
LIENS 2 ---- CERCLA Lien Information
DEED ---- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
CHMIRS ---- California Hazardous Material Incident Report System
LDS ---- Land Disposal Sites Listing
MCS ---- Military Cleanup Sites Listing
SPILLS 90 ---- SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ---- Formerly Used Defense Sites
DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST
2020 COR ACTION ---- 2020 Corrective Action Program List
TSCA ---- Toxic Substances Control Act
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems
RMP ---- Risk Management Plans
RAATS ---- RCRA Administrative Action Tracking System
PRP ---- Potentially Responsible Parties
PADS ---- PCB Activity Database System
ICIS ---- Integrated Compliance Information System
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---- Material Licensing Tracking System
COAL ASH DOE ---- Steam-Electric Plant Operation Data
COAL ASH EPA ---- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---- PCB Transformer Registration Database
RADINFO ---- Radiation Information Database
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---- Incident and Accident Data
CONSENT ---- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---- Indian Reservations
FUSRAP ---- Formerly Utilized Sites Remedial Action Program
UMTRA ---- Uranium Mill Tailings Sites
LEAD SMELTERS ---- Lead Smelter Sites
US AIRS ---- Aerometric Information Retrieval System Facility Subsystem
US MINES ---- Mines Master Index File
UXO ---- Unexploded Ordnance Sites
DOCKET HWC ---- Hazardous Waste Compliance Docket Listing
CA BOND EXP. PLAN ---- Bond Expenditure Plan

EXECUTIVE SUMMARY

Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
LA Co. Site Mitigation	Site Mitigation List
UIC	UIC Listing
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
FUELS PROGRAM	EPA Fuels Program Registered Listing
ABANDONED MINES	Abandoned Mines
ICE	ICE

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 03/07/2016 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN GABRIEL VALLEY (	*SUNSET & SAN BERNARD*	*0 - 1/8 (0.000 mi.)*	*0*	*21*

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 03/07/2016 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN GABRIEL VALLEY (	*SUNSET & SAN BERNARD*	*0 - 1/8 (0.000 mi.)*	*0*	*21*

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 03/07/2016 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPECIALTY ORGANICS I	*5263 N FOURTH ST*	*NNE 1/4 - 1/2 (0.285 mi.)*	*134*	*124*

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 06/27/2016 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORAC PHARMA	*405 S MOTOR AVE*	*NNE 1/2 - 1 (0.836 mi.)*	*V152*	*245*

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/21/2016 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ACELCO	*15470 ARROW HWY*	*NNW 1/8 - 1/4 (0.126 mi.)*	*H68*	*67*
ZOLA JOHN C LABORATO	*15460 ARROW HWY*	*NNW 1/8 - 1/4 (0.129 mi.)*	*H72*	*69*
KENTS BODY WORKS	*15444 ARROW HWY*	*NNW 1/8 - 1/4 (0.137 mi.)*	*H77*	*75*
HARRY HILL IMPORTS	*15507 ARROW HWY*	*NNW 1/8 - 1/4 (0.137 mi.)*	*H80*	*77*

Lower Elevation	Address	Direction / Distance	Map ID	Page
MALCOLM DRILLING CO	*4926 N AZUSA CANYON*	*SSW 0 - 1/8 (0.073 mi.)*	*F28*	*51*
GEX INTERNATIONAL CO	*15245 NUBIA ST*	*W 1/8 - 1/4 (0.213 mi.)*	*P121*	*109*

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 05/09/2016 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN GABRIEL VALLEY (	*SUNSET & SAN BERNARD*	*0 - 1/8 (0.000 mi.)*	*0*	*21*

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 08/01/2016 has revealed that there are 8 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DAVIS WIRE CORP Facility Id: 71002657 Status: Refer: Other Agency	***5555 IRWINDALE AVE***	***NNE 1/2 - 1 (0.565 mi.)***	***148***	***161***
KEMAC TECHNOLOGY INC Facility Id: 71002929 Status: Refer: Other Agency	***5462 N. IRWINDALE***	***NE 1/2 - 1 (0.705 mi.)***	***150***	***226***
NORAC PHARMA (S&B PH Facility Id: 80001568 Status: Active	***405 S MOTOR AVE***	***NNE 1/2 - 1 (0.836 mi.)***	***V151***	***233***
BROTHERS PLATING Facility Id: 71003297 Status: Refer: Other Agency	***334 S. MOTOR AVENUE***	***NNE 1/2 - 1 (0.889 mi.)***	***V154***	***278***
AZUSA LAND RECLAMATI Facility Id: 19490002 Status: Refer: RWQCB	***1201 WEST GLADSTONE***	***NE 1/2 - 1 (0.954 mi.)***	***W155***	***281***
MEC YARD Facility Id: 71002411 Status: Refer: Other Agency	***601 S VINCENT AVE***	***ENE 1/2 - 1 (0.994 mi.)***	***157***	***312***

Lower Elevation	Address	Direction / Distance	Map ID	Page
AMERICAN PHARMASEAL Facility Id: 19380055 Status: Refer: RWQCB	***4401 FOXDALE AVE***	***SSE 1/2 - 1 (0.605 mi.)***	***149***	***216***
CONCORDE/INTERSPACE Facility Id: 71002894 Status: Refer: Other Agency	2009 SAN BERNADINO R	S 1/2 - 1 (0.852 mi.)	153	277

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there are 2 SWF/LF sites within

approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
IRWINDALE (CONROCK)	4827 N. IRWINDALE AV	ESE 1/4 - 1/2 (0.393 mi.)	S140	150
Database: SWF/LF (SWIS), Date of Government Version: 08/15/2016 Facility ID: 19-AA-0024 Operational Status: Closed Regulation Status: Unpermitted				
IRWINDALE DISPOSAL S	4827 NORTH IRWINDALE	ESE 1/4 - 1/2 (0.393 mi.)	S141	151
Database: LOS ANGELES CO. LF, Date of Government Version: 07/15/2016 Site ID: 1909 Status: Closed				

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, has revealed that there are 9 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
U.S. RENTALS	***15402 ARROW HWY E***	***NW 1/8 - 1/4 (0.139 mi.)***	***J83***	***82***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 09/12/2016 Global Id: T0603792260 Global Id: T0603703774 Global ID: T0603703774 Status: Open - Site Assessment Status: Completed - Case Closed Facility Id: I-11270 Status: Case Closed				
SHANNON CASKET CO	15744 ARROW HWY E	NE 1/8 - 1/4 (0.233 mi.)	Q130	117
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 09/12/2016 Global Id: T0603704656 Global ID: T0603704656 Status: Completed - Case Closed Facility Id: R-04831 Status: Case Closed				
SPECIALTY ORGANICS I	***5263 N FOURTH ST***	***NNE 1/4 - 1/2 (0.285 mi.)***	***134***	***124***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 09/12/2016 Global Id: T0603703325 Global ID: T0603703325 Status: Completed - Case Closed Facility Id: I-08370 Status: Preliminary site assessment underway				
IRWINDALE CITY OF	***16034 CALLE DEL NORT***	***E 1/4 - 1/2 (0.469 mi.)***	***145***	***155***
Database: LUST, Date of Government Version: 09/12/2016				

Global Id: T10000000509
Status: Completed - Case Closed

Lower Elevation	Address	Direction / Distance	Map ID	Page
RODRIQUEZ TRUCKING	***4938 AZUSA CANYON RD***	***SSW 0 - 1/8 (0.043 mi.)***	***C23***	***48***
Database: LUST, Date of Government Version: 09/12/2016 Global Id: T10000000418 Status: Open - Site Assessment				
IRWINDALE SHOP	***4702 AZUSA CANYON RD***	***S 1/4 - 1/2 (0.273 mi.)***	***133***	***120***
Database: LUST, Date of Government Version: 09/12/2016 Global Id: T0603762683 Status: Completed - Case Closed				
ARROW PARKING	***5065 CALMVIEW AVE***	***W 1/4 - 1/2 (0.300 mi.)***	***R136***	***136***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 09/12/2016 Global Id: T0603705254 Global ID: T0603705254 Status: Completed - Case Closed Facility Id: R-15598 Status: Case Closed				
IRWINDALE REDEVELOPM	***4900 IRWINDALE AVE***	***ESE 1/4 - 1/2 (0.389 mi.)***	***139***	***147***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 09/12/2016 Global Id: T0603703009 Global ID: T0603703009 Status: Completed - Case Closed Facility Id: I-04924 Status: Case Closed				
SPARKLETTS DRINKING	***4548 AZUSA CANYON RO***	***S 1/4 - 1/2 (0.420 mi.)***	***T144***	***153***
Database: LUST, Date of Government Version: 09/12/2016 Global Id: T10000003521 Status: Completed - Case Closed				

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, has revealed that there are 8 SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JASCO WOOD PRODUCTS	***15519 ARROW HWY.***	***NNW 1/8 - 1/4 (0.137 mi.)***	***H75***	***72***
Database: SLIC, Date of Government Version: 09/12/2016 Facility Status: Open - Inactive Global Id: SL603798879				
BIOSENSE WEBSTER INC	***15715 ARROW HWY***	***NE 1/4 - 1/2 (0.309 mi.)***	***137***	***139***
Database: SLIC, Date of Government Version: 09/12/2016 Facility Status: Open - Inactive Global Id: SL603798877				
AMERICAN CAPACITOR C	***5367 THIRD ST***	***NNE 1/4 - 1/2 (0.353 mi.)***	***138***	***146***
Database: SLIC, Date of Government Version: 09/12/2016 Facility Status: Open - Inactive				

Global Id: SL603798884

VALLEY CLUTCH CO. IN ***5396 THIRD ST*** ***NNE 1/4 - 1/2 (0.413 mi.)*** ***142*** ***151***
Database: SLIC, Date of Government Version: 09/12/2016
Facility Status: Open - Inactive
Global Id: SL603798885

CROWN VALLEY THREAD ***5137 N. ELTON ST.*** ***WNW 1/4 - 1/2 (0.473 mi.)*** ***U146*** ***159***
Database: SLIC, Date of Government Version: 09/12/2016
Facility Status: Open - Inactive
Global Id: SL603798911

ARROW SCREW PRODUCTS ***15012 E ARROW HWY*** ***WNW 1/4 - 1/2 (0.493 mi.)*** ***U147*** ***160***
Database: SLIC, Date of Government Version: 09/12/2016
Facility Status: Open - Inactive
Global Id: SL603798908

Lower Elevation	Address	Direction / Distance	Map ID	Page

L & M METAL PRODUCTS ***5108 CALMVIEW AVE*** ***WNW 1/4 - 1/2 (0.290 mi.)*** ***R135*** ***136***
Database: SLIC, Date of Government Version: 09/12/2016
Facility Status: Completed - Case Closed
Global Id: SL603798909

OLIVE PIT ***4407 AZUSA CANYON RO*** ***S 1/4 - 1/2 (0.419 mi.)*** ***T143*** ***152***
Database: SLIC, Date of Government Version: 09/12/2016
Facility Status: Open - Inactive
Global Id: SL603798880

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
US RENTALS INC	15402 ARROW HWY	NW 1/8 - 1/4 (0.139 mi.)	J86	89
Database: UST, Date of Government Version: 09/12/2016				
Facility Id: 11270				

Lower Elevation	Address	Direction / Distance	Map ID	Page
MALCOLM DRILLING CO	4926 AZUSA CANYON RD	SSW 0 - 1/8 (0.073 mi.)	F30	54
Database: UST, Date of Government Version: 09/12/2016				
Facility Id: 26668				

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, and dated 07/06/2016 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA COMMUNITY	5091 004TH ST	E 0 - 1/8 (0.085 mi.)	34	56

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN: San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

A review of the AOCONCERN list, as provided by EDR, and dated 03/30/2009 has revealed that there is 1 AOCONCERN site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN GABRIEL VALLEY		0 - 1/8 (0.000 mi.)	0	20

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 8 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LA CO FD FIRE STA #0 Status: A Tank Status: A Comp Number: 12516	***15546 ARROW HWY***	***NNE 0 - 1/8 (0.091 mi.)***	***G35***	***56***
ARROW PIPE & SUPPLY Status: A Comp Number: 11457	***15563 ARROW HWY***	***N 1/8 - 1/4 (0.136 mi.)***	***I74***	***71***
PHILIPS/LAU INDUSTRI Status: A Comp Number: 3611	***15601 ARROW HWY***	***NNE 1/8 - 1/4 (0.138 mi.)***	***G81***	***79***
ARROW EQUIP RENTAL Status: A Tank Status: A Comp Number: 11270	***15402 ARROW HWY***	***NW 1/8 - 1/4 (0.139 mi.)***	***J85***	***87***
SEE I-5308	15700 ARROW HWY	NE 1/8 - 1/4 (0.187 mi.)	M107	104

Status: A
Comp Number: 12939

FOREST CITY DILLON-T	***15703 ARROW HWY***	***NE 1/8 - 1/4 (0.200 mi.)***	***M112***	***106***
Status: A				
Comp Number: 5308				
SHANNON CASKET CO	***15744 ARROW HWY***	***NE 1/8 - 1/4 (0.233 mi.)***	***Q129***	***115***
Status: A				
Comp Number: 4831				

Lower Elevation	Address	Direction / Distance	Map ID	Page
CM2 COMPANY INC	4926 AZUSA CANYON	SSW 0 - 1/8 (0.073 mi.)	F29	53
Status: A				
Tank Status: A				
Comp Number: 15819				

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 6 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LA CO FD FIRE STA #0	***15546 ARROW HWY***	***NNE 0 - 1/8 (0.091 mi.)***	***G35***	***56***
ARROW PIPE & SUPPLY	***15563 ARROW HWY***	***N 1/8 - 1/4 (0.136 mi.)***	***I74***	***71***
PHILIPS/LAU INDUSTRI	***15601 ARROW HWY***	***NNE 1/8 - 1/4 (0.138 mi.)***	***G81***	***79***
UNITED RENTALS INC #	***15402 ARROW HIGHWAY***	***NW 1/8 - 1/4 (0.139 mi.)***	***J82***	***80***
FOREST CITY DILLON -	15703 E ARROW HIGHWA	NE 1/8 - 1/4 (0.200 mi.)	M110	105
Facility Id: 00000050566				
NONE	***15744 ARROW HIGHWAY***	***NE 1/8 - 1/4 (0.233 mi.)***	***Q131***	***119***
Facility Id: 00000003833				

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARROW EQUIP RENTAL	***15402 ARROW HWY***	***NW 1/8 - 1/4 (0.139 mi.)***	***J85***	***87***
Facility Id: 19001861				
Status: A				

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA)

of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/21/2016 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DBEV ENVIRONMENTAL S	***15480 ARROW HWY STE***	***NNW 0 - 1/8 (0.123 mi.)***	***H65***	***65***
U S RENTALS 51	***15402 E ARROW HWY***	***NW 1/8 - 1/4 (0.139 mi.)***	***J87***	***89***

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 11/25/2013 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN GABRIEL VALLEY (	***SUNSET & SAN BERNARD***	***0 - 1/8 (0.000 mi.)***	***0***	***21***

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 6 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
U.S. RENTALS Reg Id: I-11270	***15402 ARROW HWY E***	***NW 1/8 - 1/4 (0.139 mi.)***	***J83***	***82***
ATASCADERO YARD Reg Id: 2399	15627 ARROW	NNE 1/8 - 1/4 (0.185 mi.)	K103	103
NONE Reg Id: R-04831	***15744 ARROW HIGHWAY***	***NE 1/8 - 1/4 (0.233 mi.)***	***Q131***	***119***
SPECIALTY ORGANICS I Reg Id: I-08370	***5263 N FOURTH ST***	***NNE 1/4 - 1/2 (0.285 mi.)***	***134***	***124***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ARROW PARKING Reg Id: R-15598	***5065 CALMVIEW AVE***	***W 1/4 - 1/2 (0.300 mi.)***	***R136***	***136***
IRWINDALE REDEVELOPM Reg Id: I-04924	***4900 IRWINDALE AVE***	***ESE 1/4 - 1/2 (0.389 mi.)***	***139***	***147***

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 08/22/2016 has revealed that there are 2 HWP sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORAC PHARMA (S&B PH	***405 S MOTOR AVE***	***NNE 1/2 - 1 (0.836 mi.)***	***V151***	***233***
EPA Id: CAD008352957				
Cleanup Status: UNDERGOING CLOSURE				
CEMEX CONSTRUCTION M	***1201 W GLADSTONE ST***	***NE 1/2 - 1 (0.954 mi.)***	***W156***	***287***
EPA Id: CAD009007626				
Cleanup Status: KNOWN GENERATORS				

WIP: Well Investigation Program case in the San Gabriel and San Fernando Valley area.

A review of the WIP list, as provided by EDR, and dated 07/03/2009 has revealed that there are 89 WIP sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORD PRINTING & MAIL	5102 AZUSA CANYON RD	NW 0 - 1/8 (0.009 mi.)	B14	45
Facility Status: Historical				
KARL BRYAN PLUMBING	5029 AZUSA CANYON RD	W 0 - 1/8 (0.019 mi.)	B15	45
Facility Status: Historical				
PLASTECH TRANSPARENC	5108 AZUSA CANYON RD	NNW 0 - 1/8 (0.027 mi.)	B20	47
Facility Status: Historical				
IMPERIAL HORIZON	5116 AZUSA CANYON RD	NNW 0 - 1/8 (0.027 mi.)	B21	48
ORECO DUCT SYSTEMS,	5119 AZUSA CANYON RD	NNW 0 - 1/8 (0.060 mi.)	E27	51
Facility Status: Historical				
NELSON DESIGN & FABR	5143 AZUSA CANYON RD	NNW 0 - 1/8 (0.093 mi.)	E37	58
Facility Status: Historical				
TOM CHATSUWAN STRETC	5145 AZUSA CANYON RD	NNW 0 - 1/8 (0.095 mi.)	E38	58
Facility Status: Historical				
J C CANVAS	5145 AZUSA CANYON RD	NNW 0 - 1/8 (0.095 mi.)	E39	58
Facility Status: Historical				
MITCH'S AUTO	5151 AZUSA CANYON RD	NNW 0 - 1/8 (0.098 mi.)	E40	58
Facility Status: Historical				
F. M. DIE	5153 AZUSA CANYON RD	NNW 0 - 1/8 (0.099 mi.)	E41	59
Facility Status: Historical				
C. O. X.	5155 AZUSA CANYON RD	NNW 0 - 1/8 (0.100 mi.)	E42	59
TOMCO PRODUCTS	5157 AZUSA CANYON RD	NNW 0 - 1/8 (0.101 mi.)	E43	59
Facility Status: Historical				
STUART TOOL SERVICE	15426 E ARROW HWY	NNW 0 - 1/8 (0.102 mi.)	E44	59
Facility Status: Historical				
NICKS CUSTOM WELDING	5163 AZUSA CANYON RD	NNW 0 - 1/8 (0.104 mi.)	E45	60
OCCUPANT	5165 AZUSA CANYON RD	NNW 0 - 1/8 (0.105 mi.)	E47	61
OCCUPANT	5167 AZUSA CANYON RD	NNW 0 - 1/8 (0.106 mi.)	E49	61
CALIFORNIA BOWLING S	5169 AZUSA CANYON RD	NNW 0 - 1/8 (0.107 mi.)	E50	62
Facility Status: Historical				
A. J. BREWER SPECILI	15558 ARROW HWY	NNE 0 - 1/8 (0.119 mi.)	G51	62

Facility Status: Historical				
CARTER'S METAL FABRI	15560 ARROW HWY	NNE 0 - 1/8 (0.119 mi.)	G52	62
Facility Status: Historical				
PLASTECH	15558 ARROW HWY	NNE 0 - 1/8 (0.119 mi.)	G53	62
Facility Status: Historical				
CHEZ CARRIE CATERING	15556 ARROW HWY	NNE 0 - 1/8 (0.119 mi.)	G54	63
Facility Status: Historical				
JENDEN WEST	15556 ARROW HWY	NNE 0 - 1/8 (0.119 mi.)	G55	63
PLASTECH TRANSPARENC	15554 E ARROW HWY	NNE 0 - 1/8 (0.119 mi.)	G56	63
Facility Status: Historical				
SAAVEDRA WOOD PROD &	15560 ARROW HWY	NNE 0 - 1/8 (0.119 mi.)	G58	64
A-ARTISTIC PRINTING	15558 ARROW HWY	NNE 0 - 1/8 (0.119 mi.)	G59	64
Facility Status: Historical				
GIANGREGORIO CONSTRU	15480 ARROW HWY	NNW 0 - 1/8 (0.123 mi.)	H60	64
NLE, INC.	15480 ARROW HWY	NNW 0 - 1/8 (0.123 mi.)	H61	64
Facility Status: Historical				
ELEKTRA IND SUPPLY I	15480 ARROW HWY	NNW 0 - 1/8 (0.123 mi.)	H62	65
NO FRILLS TRUCKING I	15480 ARROW HWY	NNW 0 - 1/8 (0.123 mi.)	H63	65
Facility Status: Historical				
NO FRILLS TRUCKING	15480 ARROW HWY	NNW 0 - 1/8 (0.123 mi.)	H64	65
Facility Status: Historical				
OCCUPANT	15472 E ARROW HWY	NNW 1/8 - 1/4 (0.125 mi.)	H66	67
OCCUPANT	15470 E ARROW HWY	NNW 1/8 - 1/4 (0.126 mi.)	H67	67
Facility Status: Historical				
WARSAW ENGINEERING,	15468 ARROW HWY	NNW 1/8 - 1/4 (0.127 mi.)	H69	69
Facility Status: Historical				
OCCUPANT	15468 E ARROW HWY	NNW 1/8 - 1/4 (0.127 mi.)	H70	69
STUART'S TOOL SERVIC	15464 ARROW HWY	NNW 1/8 - 1/4 (0.128 mi.)	H71	69
Facility Status: Historical				
THE 3 AMINGOS TIRE S	15460 E ARROW HWY	NNW 1/8 - 1/4 (0.129 mi.)	H73	71
Facility Status: Historical				
JASCO WOOD PRODUCTS	***15519 ARROW HWY.***	***NNW 1/8 - 1/4 (0.137 mi.)***	***H75***	***72***
Facility Status: Backlog				
KENT'S BODY WKS, KEN	***15444 E ARROW HWY***	***NNW 1/8 - 1/4 (0.137 mi.)***	***H76***	***74***
Facility Status: Historical				
DIA-CHROME INC.	15509 ARROW HWY	NNW 1/8 - 1/4 (0.137 mi.)	H78	77
Facility Status: Historical				
HARRY HILL VOLKSWAGE	15507 ARROW HWY	NNW 1/8 - 1/4 (0.137 mi.)	H79	77
U S RENTALS	***15402 E ARROW HWY***	***NW 1/8 - 1/4 (0.139 mi.)***	***J84***	***87***
Facility Status: Historical				
TOMCO PRODUCTS	15438 ARROW HWY	NW 1/8 - 1/4 (0.140 mi.)	H88	90
Facility Status: Historical				
TOMCO	15438 ARROW HWY	NW 1/8 - 1/4 (0.140 mi.)	H89	90
Facility Status: Historical				
CHAPMAN APPLIANCE WA	15406 ARROW HWY	NW 1/8 - 1/4 (0.141 mi.)	J90	91
Facility Status: Historical				
KNUDTSON REFINISHING	***15434 ARROW HWY***	***NW 1/8 - 1/4 (0.142 mi.)***	***H91***	***91***

Facility Status: Historical				
OCCUPANT	15434 ARROW HWY	NW 1/8 - 1/4 (0.142 mi.)	H92	97
J. D. PRECISION Facility Status: Historical	15430 ARROW HWY	NW 1/8 - 1/4 (0.144 mi.)	H93	97
PATTON SALES CORPORA Facility Status: Historical	***15563 EAST ARROW HIG***	***N 1/8 - 1/4 (0.145 mi.)***	***G94***	***97***
P & M AUTOMOTIVE Facility Status: Historical	15428 ARROW HWY	NW 1/8 - 1/4 (0.145 mi.)	H95	99
CARBIDE DIE & MGF. C Facility Status: Historical	15615 E ARROW HWY	NNE 1/8 - 1/4 (0.151 mi.)	K96	99
XTREME AUTO COLLISIO Facility Status: Historical	***15629 ARROW HWY***	***NNE 1/8 - 1/4 (0.156 mi.)***	***K97***	***99***
CHASE TIRE SERVICE Facility Status: Historical	***15545 E ARROW HWY***	***N 1/8 - 1/4 (0.158 mi.)***	***I98***	***100***
SORENSEN BACKHOE Facility Status: Historical	5052 LANTE ST	W 1/8 - 1/4 (0.184 mi.)	L102	102
CNI MFG Facility Status: Historical	15627 ARROW HWY	NNE 1/8 - 1/4 (0.185 mi.)	K104	103
GENCO REBUILT PRODUC Facility Status: Historical	15320 E ARROW HWY	NW 1/8 - 1/4 (0.187 mi.)	J106	103
UNIVERSAL MACHINES Facility Status: Historical	5220 N FOURTH ST	NE 1/8 - 1/4 (0.192 mi.)	M108	104
MC CARON STEEL FABRI Facility Status: Historical	***5140 N LANTE ST***	***WNW 1/8 - 1/4 (0.198 mi.)***	***N109***	***104***
FEDERAL DEPOSIT INSU Facility Status: Historical	15703 ARROW HWY	NE 1/8 - 1/4 (0.200 mi.)	M111	106
VALLEY ABRASIVE SHOT Facility Status: Historical	15533 ARROW HWY	N 1/8 - 1/4 (0.200 mi.)	113	107
HENRI'S SALES & AUTO Facility Status: Historical	15312 ARROW HWY	NW 1/8 - 1/4 (0.207 mi.)	O114	107
BENLO COMPANY Facility Status: Historical	15633 ARROW HWY	NE 1/8 - 1/4 (0.208 mi.)	M115	107
CUSTOM WOODWORKS Facility Status: Historical	5103 LANTE ST	WNW 1/8 - 1/4 (0.209 mi.)	N116	108
MARGETT BROS, INC. Facility Status: Historical	5057 LANTE ST	W 1/8 - 1/4 (0.209 mi.)	L118	108
ESCO WOODWORKING CO.	5125 LANTE ST	WNW 1/8 - 1/4 (0.214 mi.)	N122	113
D & J PERFORMANCE Facility Status: Historical	5133 LANTE ST	WNW 1/8 - 1/4 (0.217 mi.)	N123	114
FRANKS & COMPANY Facility Status: Historical	5133 LANTE ST	WNW 1/8 - 1/4 (0.217 mi.)	N124	114
TOMKINS Facility Status: Historical	15601 ARROW HWY	NNE 1/8 - 1/4 (0.226 mi.)	125	114
E & D STEAM COIL CO. Facility Status: Historical	15300 ARROW HWY	NW 1/8 - 1/4 (0.228 mi.)	O126	114
SHANNON CASKET CO Facility Status: Historical	***15744 ARROW HWY***	***NE 1/8 - 1/4 (0.233 mi.)***	***Q129***	***115***
NONE	***15744 ARROW HIGHWAY***	***NE 1/8 - 1/4 (0.233 mi.)***	***Q131***	***119***

Facility Status: Historical				
AMERICAN SPEEDY PRIN Facility Status: Historical	15705 ARROW HWY	NE 1/8 - 1/4 (0.241 mi.)	M132	120

Lower Elevation	Address	Direction / Distance	Map ID	Page
D-L MACHINE SHOP Facility Status: Historical	4946 AZUSA CANYON RD	SSW 0 - 1/8 (0.021 mi.)	C16	46
ADVANCE MARINE & DEV Facility Status: Historical	4954 AZUSA CANYON RD	SSW 0 - 1/8 (0.027 mi.)	C18	46
ALBERT C. CLEGG & SO	4945 AZUSA CANYON RD	SW 0 - 1/8 (0.038 mi.)	22	48
RODRIGUEZ TRUCKING, Facility Status: Historical	4938 AZUSA CANYON RD	SSW 0 - 1/8 (0.043 mi.)	C24	50
HARPENG MATCH PLATE Facility Status: Historical	4910 AZUSA CANYON RD	S 0 - 1/8 (0.047 mi.)	D25	50
HARPENG MATCH PLATE Facility Status: Historical	4910 AZUSA CANYON RD	S 0 - 1/8 (0.047 mi.)	D26	51
CMZ COMPANY Facility Status: Historical	***4926 N AZUSA CANYON***	***SSW 0 - 1/8 (0.073 mi.)***	***F31***	***54***
ACTIVE AIRCRAFT WELD Facility Status: Historical	4848 AZUSA CANYON RD	S 0 - 1/8 (0.084 mi.)	D33	55
UTILITY DISPOSAL COM	4854 AZUSA CANYON RD	SSW 0 - 1/8 (0.093 mi.)	F36	57
HUY FONG FOODS INC Facility Status: Historical	***4800 AZUSA CANYON RO***	***S 1/8 - 1/4 (0.181 mi.)***	***99***	***100***
GLENDORA TREE SURGER Facility Status: Historical	5040 LANTE ST	W 1/8 - 1/4 (0.184 mi.)	L100	102
NATIONAL COOLER CORP Facility Status: Historical	5018 LANTE ST	W 1/8 - 1/4 (0.184 mi.)	L101	102
J & B CEMENT CONTRAC	4938 LANTE ST	WSW 1/8 - 1/4 (0.187 mi.)	105	103
RAINBOW ELECTRIC Facility Status: Historical	5049 LANTE ST	W 1/8 - 1/4 (0.209 mi.)	L117	108
QUALITY ENGINE CENTE Facility Status: Historical	15253 NUBIA ST	WSW 1/8 - 1/4 (0.210 mi.)	P119	108
GEX INTERNATIONAL CO Facility Status: Historical	15247 NUBIA ST	WSW 1/8 - 1/4 (0.212 mi.)	P120	109
POLMARK CONSTRUCTION Facility Status: Historical	4848 LANTE ST	SW 1/8 - 1/4 (0.233 mi.)	127	115
TOOL & DIE MFG, INC. Facility Status: Historical	15237 NUBIA ST	W 1/8 - 1/4 (0.233 mi.)	P128	115

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected

listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 6 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	5163 AZUSA CANYON R	NNW 0 - 1/8 (0.104 mi.)	E46	60
Not reported	5167 AZUSA CANYON R	NNW 0 - 1/8 (0.106 mi.)	E48	61
Not reported	15556 ARROW HWY	NNE 0 - 1/8 (0.119 mi.)	G57	63

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	4946 AZUSA CANYON R	SSW 0 - 1/8 (0.021 mi.)	C17	46
Not reported	4954 AZUSA CANYON R	SSW 0 - 1/8 (0.027 mi.)	C19	47
Not reported	4900 AZUSA CANYON R	SSW 0 - 1/8 (0.075 mi.)	D32	55

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 9 records.

Site Name	Database(s)
UNOCAL #5411	LUST, HIST CORTESE
IRWINDALE PIT #2	NPDES
	CDL
	CDL
	CDL
AZUSA DUMP OWL 4X J09CA002500	LUST, WMUDS/SWAT, HIST Cal-Sites
IRWINDALE CANYON BUSINESS PARK	LA Co. Site Mitigation
SAN GABRIEL GROUND WATER BASIN 2	CA BOND EXP. PLAN
SAN GABRIEL VALLEY MOSQUITO ABATEM	ENVIROSTOR

OVERVIEW MAP - 4765772.2S

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Frontier Irwindale	CLIENT:	ATC Group Services LLC
ADDRESS:	5010 Azusa Canyon Road Baldwin Park CA 91706	CONTACT:	Steve Anderson
LAT/LONG:	34.10425 / 117.941862	INQUIRY #:	4765772.2s
		DATE:	October 28, 2016 9:22 am

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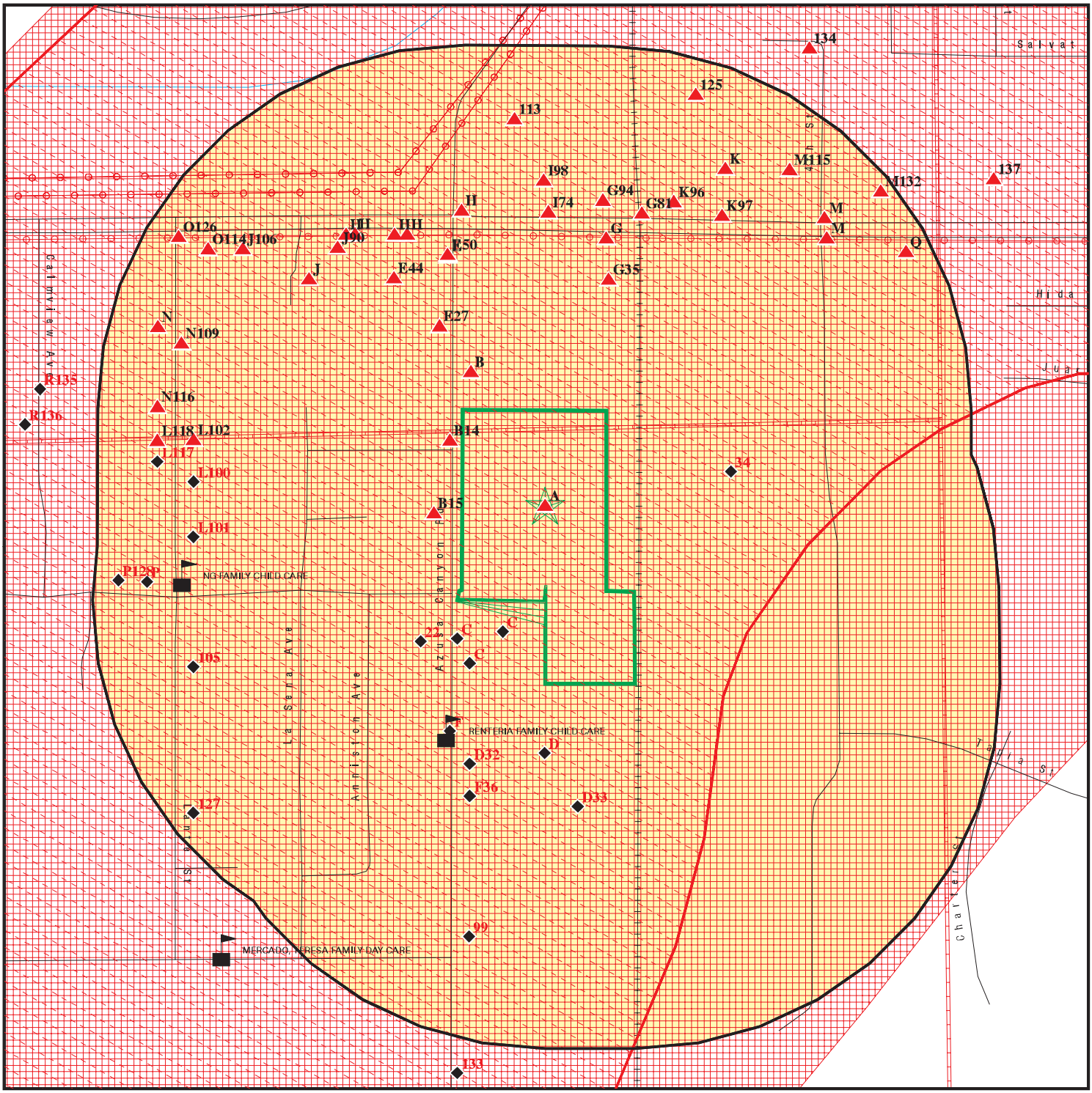
DETAIL MAP - 4765772.2S



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Frontier Irwindale	CLIENT:	ATC Group Services LLC
ADDRESS:	5010 Azusa Canyon Road Baldwin Park CA 91706	CONTACT:	Steve Anderson
LAT/LONG:	34.10425 / 117.941862	INQUIRY #:	4765772.2s
		DATE:	October 28, 2016 9:23 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		1	0	0	0	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		1	0	0	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	1	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250	1	1	5	NR	NR	NR	7
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		1	0	0	NR	NR	1
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	8	NR	8
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	2	NR	NR	2
State and tribal leaking storage tank lists								
LUST	0.500	1	1	2	6	NR	NR	10

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		0	1	7	NR	NR	8
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250	1	1	1	NR	NR	NR	3
AST	0.250		1	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
AOCONCERN	1.000		1	0	0	0	NR	1
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250	1	2	6	NR	NR	NR	9
HIST UST	0.250	1	1	5	NR	NR	NR	7
CA FID UST	0.250		0	1	NR	NR	NR	1
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	1	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		1	0	0	0	NR	1
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	2	NR	NR	NR	NR	NR	2
HIST CORTESE	0.500	1	0	3	3	NR	NR	7
LOS ANGELES CO. HMS	TP	3	NR	NR	NR	NR	NR	3
HWP	1.000		0	0	0	2	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HWT	0.250		0	0	NR	NR	NR	0
MINES	TP		NR	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250	1	39	50	NR	NR	NR	90
ECHO	TP	1	NR	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		6	NR	NR	NR	NR	6
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP	2	NR	NR	NR	NR	NR	2
- Totals --		16	58	75	19	11	0	179

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
Target
Property

VERIZON CA INC IRWINDALE PY
5010 AZUSA CANYON RD
IRWINDALE, CA 91706

HAZNET **S113175368**
N/A

Site 1 of 13 in cluster A

Actual:
449 ft.

HAZNET:

envid:	S113175368
Year:	2014
GEPAID:	CAR000084251
Contact:	ZACH FEINGOLD
Telephone:	9096205498
Mailing Name:	Not reported
Mailing Address:	PO BOX 725
Mailing City,St,Zip:	CHINO, CA 917080000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Laboratory waste chemicals
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.86484
Cat Decode:	Laboratory waste chemicals
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	S113175368
Year:	2014
GEPAID:	CAR000084251
Contact:	ZACH FEINGOLD
Telephone:	9096205498
Mailing Name:	Not reported
Mailing Address:	PO BOX 725
Mailing City,St,Zip:	CHINO, CA 917080000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.155
Cat Decode:	Other organic solids
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	S113175368
Year:	2014
GEPAID:	CAR000084251
Contact:	ZACH FEINGOLD
Telephone:	9096205498
Mailing Name:	Not reported
Mailing Address:	PO BOX 725
Mailing City,St,Zip:	CHINO, CA 917080000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Off-specification, aged or surplus organics

VERIZON CA INC IRWINDALE PY (Continued) **S113175368**

Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.1575
Cat Decode:	Off-specification, aged or surplus organics
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	S113175368
Year:	2014
GEPAID:	CAR000084251
Contact:	ZACH FEINGOLD
Telephone:	9096205498
Mailing Name:	Not reported
Mailing Address:	PO BOX 725
Mailing City,St,Zip:	CHINO, CA 917080000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Unspecified oil-containing waste
Disposal Method:	H142
Tons:	0.06255
Cat Decode:	Unspecified oil-containing waste
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113175368
Year:	2014
GEPAID:	CAR000084251
Contact:	ZACH FEINGOLD
Telephone:	9096205498
Mailing Name:	Not reported
Mailing Address:	PO BOX 725
Mailing City,St,Zip:	CHINO, CA 917080000
Gen County:	Los Angeles
TSD EPA ID:	UTD981552177
TSD County:	99
Waste Category:	Pharmaceutical waste
Disposal Method:	Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.055
Cat Decode:	Pharmaceutical waste
Method Decode:	Incineration--Thermal Destruction Other Than Use As A Fuel
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
57 additional CA_HAZNET: record(s) in the EDR Site Report.

A2 **FRONTIER CALIFORNIA INC IRWINDALE YARD** **RCRA-SQG** **1004676359**
Target **5010 AZUSA CANYON RD** **CAR000084251**
Property **IRWINDALE, CA 91706**

Site 2 of 13 in cluster A

Actual: 449 ft.

RCRA-SQG:

Date form received by agency:	03/29/2016
Facility name:	FRONTIER CALIFORNIA INC IRWINDALE YARD
Facility address:	5010 AZUSA CANYON RD IRWINDALE, CA 91706

FRONTIER CALIFORNIA INC IRWINDALE YARD (Continued) **1004676359**

EPA ID: CAR000084251
Mailing address: PO BOX 725
CHINO, CA 91708
Contact: MASOOD CHOUDHURY
Contact address: PO BOX 725
CHINO, CA 91708
Contact country: US
Contact telephone: 909-620-5962
Contact email: MASOOD.CHOUDHURY@FTR.COM
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: FRONTIER CALIFORNIA INC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 04/01/2016
Owner/Op end date: Not reported

Owner/operator name: FRONTIER CALIFORNIA INC
Owner/operator address: PO BOX 725
CHINO, 91708
Owner/operator country: US
Owner/operator telephone: 909-620-5962
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 04/01/2016
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 141

FRONTIER CALIFORNIA INC IRWINDALE YARD (Continued) **1004676359**

. Waste name: 141

. Waste code: 181
. Waste name: 181

. Waste code: 214
. Waste name: 214

. Waste code: 331
. Waste name: 331

. Waste code: 352
. Waste name: 352

. Waste code: D001
. Waste name: IGNITABLE WASTE

Historical Generators:
Date form received by agency: 10/10/2000
Site name: VERIZON CALIFORNIA INCORPORATED IRWINDAL
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D018
. Waste name: BENZENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

A3 **GTE CALIFORNIA** **UST** **U004049655**
Target **5010 AZUSA CANYON RD** **N/A**
Property **BALDWIN PARK, CA 91706**

Site 3 of 13 in cluster A

Actual:
449 ft.

UST:

Facility ID:	3882
Permitting Agency:	LOS ANGELES COUNTY
Latitude:	34.1056549
Longitude:	-117.9413681

A4 **GENERAL TELEPHONE CO.** **LUST** **S102430701**
Target **5010 AZUSA CANYON RD N** **N/A**
Property **IRWINDALE, CA 91706**

Site 4 of 13 in cluster A

Actual:
449 ft.

LUST:

Region:	STATE
Global Id:	T0603704631
Latitude:	34.1037064
Longitude:	-117.9427372
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/26/1996
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-03882
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603704631
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603704631
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603704631
Status:	Completed - Case Closed

GENERAL TELEPHONE CO. (Continued) **S102430701**

Status Date: 11/26/1996

Global Id: T0603704631
Status: Open - Case Begin Date
Status Date: 01/02/1991

Global Id: T0603704631
Status: Open - Site Assessment
Status Date: 05/16/1991

Regulatory Activities:
Global Id: T0603704631
Action Type: Other
Date: 01/02/1991
Action: Leak Stopped

Global Id: T0603704631
Action Type: Other
Date: 01/02/1991
Action: Leak Discovery

Global Id: T0603704631
Action Type: Other
Date: 05/16/1991
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-03882
Status: Case Closed
Substance: Diesel
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603704631
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: ARROW HWY
Enforcement Type: Not reported
Date Leak Discovered: 1/2/1991
Date Leak First Reported: 5/16/1991
Date Leak Record Entered: 5/22/1991
Date Confirmation Began: Not reported
Date Leak Stopped: 1/2/1991
Date Case Last Changed on Database: 5/14/1993
Date the Case was Closed: 11/26/1996
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: MCCORMIC, J.D.

GENERAL TELEPHONE CO. (Continued) **S102430701**

Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 1095.93295825272687145880797 86
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 5/16/1991
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: GTE CALIFORNIA, INC.
RP Address: P.O. BOX 725, CHINO, CA 91708
Program: LUST
Lat/Long: 34.1037064 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: OLD CASE #061391-10

A5 **GENERAL TELEPHONE CO** **HIST CORTESE** **S105024237**
Target **5010 AZUSA CNYN** **N/A**
Property **IRWINDALE, CA 91706**

Site 5 of 13 in cluster A

Actual:
449 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-03882

A6 **VERIZON CALIFORNIA** **LOS ANGELES CO. HMS** **S104827190**
Target **5010 AZUSA CANYON RD** **N/A**
Property **IRWINDALE, CA 91706**

Site 6 of 13 in cluster A

Actual:
449 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: I
Facility Id: 003755-I03882
Facility Type: 01
Facility Status: Permit
Area: 3S

VERIZON CALIFORNIA (Continued) **S104827190**

Permit Number: 000009136
Permit Status: Permit

Region: LA
Permit Category: I
Facility Id: 003755-I03882
Facility Type: 01
Facility Status: Permit
Area: 3S
Permit Number: 000068214
Permit Status: Removed

A7 **GENERAL TELEPHONE CO.** **RGA LUST** **S114626540**
Target **5010 AZUSA CYN RD., N.** **N/A**
Property **IRWINDALE, CA**

Site 7 of 13 in cluster A

Actual:
449 ft.

RGA LUST:

1994	GENERAL TELEPHONE CO.	5010 AZUSA CYN RD., N.
1993	GENERAL TELEPHONE CO.	5010 AZUSA CYN RD., N.

A8 **VERIZON CALIFORNIA INC IRWINDALE** **FINDS** **1016114365**
Target **5010 AZUSA CANYON ROAD** **ECHO** **N/A**
Property **IRWINDALE, CA 91706**

Site 8 of 13 in cluster A

Actual:
449 ft.

FINDS:

Registry ID: 110012216208

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

ECHO:
Envid: 1016114365
Registry ID: 110012216208
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110012216208

A9 **GENERAL TELEPHONE COMPANY OF C** **HIST UST** **S113004739**
Target **5010 N AZUSA CANYON ROAD** **HAZNET** **N/A**
Property **IRWINDALE, CA 91706**

Site 9 of 13 in cluster A

Actual:
449 ft.

HIST UST:

File Number:	00026ABF
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026ABF.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HAZNET:

envid:	S113004739
Year:	2000
GEPAID:	CAD981394174
Contact:	KIM BRAY/CONSULTANT
Telephone:	8003318891
Mailing Name:	Not reported
Mailing Address:	PO BOX 725
Mailing City,St,Zip:	CHINO, CA 917080725
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Oil/water separation sludge
Disposal Method:	Recycler
Tons:	2.08
Cat Decode:	Oil/water separation sludge
Method Decode:	Recycler
Facility County:	Los Angeles
envid:	S113004739
Year:	2000
GEPAID:	CAD981394174
Contact:	KIM BRAY/CONSULTANT
Telephone:	8003318891
Mailing Name:	Not reported
Mailing Address:	PO BOX 725
Mailing City,St,Zip:	CHINO, CA 917080725
Gen County:	Not reported

GENERAL TELEPHONE COMPANY OF C (Continued) **S113004739**

TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Treatment, Tank
Tons: 1.25
Cat Decode: Unspecified oil-containing waste
Method Decode: Treatment, Tank
Facility County: Los Angeles

envid: S113004739
Year: 2000
GEPAID: CAD981394174
Contact: KIM BRAY/CONSULTANT
Telephone: 8003318891
Mailing Name: Not reported
Mailing Address: PO BOX 725
Mailing City,St,Zip: CHINO, CA 917080725
Gen County: Not reported
TSD EPA ID: CAD044429835
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Disposal, Other
Tons: 0.46
Cat Decode: Off-specification, aged or surplus organics
Method Decode: Disposal, Other
Facility County: Los Angeles

envid: S113004739
Year: 2000
GEPAID: CAD981394174
Contact: KIM BRAY/CONSULTANT
Telephone: 8003318891
Mailing Name: Not reported
Mailing Address: PO BOX 725
Mailing City,St,Zip: CHINO, CA 917080725
Gen County: Not reported
TSD EPA ID: CAT000613893
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Transfer Station
Tons: 0.59
Cat Decode: Aqueous solution with total organic residues less than 10 percent
Method Decode: Transfer Station
Facility County: Los Angeles

envid: S113004739
Year: 1999
GEPAID: CAD981394174
Contact: GTE CALIFORNIA INCORPORATED
Telephone: 8003318890
Mailing Name: Not reported
Mailing Address: PO BOX 725
Mailing City,St,Zip: CHINO, CA 917080725
Gen County: Not reported
TSD EPA ID: CAD044429835
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics

GENERAL TELEPHONE COMPANY OF C (Continued) **S113004739**

Disposal Method: Disposal, Other
Tons: 1.2800
Cat Decode: Off-specification, aged or surplus organics
Method Decode: Disposal, Other
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
65 additional CA_HAZNET: record(s) in the EDR Site Report.

A10 Target Property **GENERAL TELEPHONE** **SWEEPS UST** **S103662538**
5010 N AZUSA CANYON RD **WIP** **N/A**
IRWINDALE, CA 91706

Site 10 of 13 in cluster A

Actual: 449 ft.

SWEEPS UST:
Status: Active
Comp Number: 3882
Number: 9
Board Of Equalization: 44-007526
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-003882-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 4

Status: Active
Comp Number: 3882
Number: 9
Board Of Equalization: 44-007526
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-003882-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 3882
Number: 9
Board Of Equalization: 44-007526
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported

GENERAL TELEPHONE (Continued) **S103662538**

SWRCB Tank Id: 19-000-003882-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 3882
Number: 9
Board Of Equalization: 44-007526
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-003882-000004
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

WIP:
Region: 4
File Number: 108.0212
File Status: Historical
Staff: DRASMUSS
Facility Suite: Not reported

A11 **FRONTIER CALIFORNIA INC** **LOS ANGELES CO. HMS** **S118689596**
Target **5010 AZUSA CANYON RD** **N/A**
Property **IRWINDALE, CA 91706**

Site 11 of 13 in cluster A

Actual: 449 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 003755-061982
Facility Type: Not reported
Facility Status: OPEN
Area: 3S
Permit Number: Not reported
Permit Status: Not reported

A12 **VERIZON CALIFORNIA** **LOS ANGELES CO. HMS** **S104536062**
Target Property **5010 AZUSA CANYON RD** **N/A**
IRWINDALE, CA 91706

Site 12 of 13 in cluster A

Actual: 449 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 003755-003882
Facility Type: 0
Facility Status: Removed
Area: 3S
Permit Number: 00001565T
Permit Status: Removed

A13 **GENERAL TELEPHONE CO.** **RGA LUST** **S114626538**
Target Property **5010 AZUSA CANYON RD N** **N/A**
IRWINDALE, CA

Site 13 of 13 in cluster A

Actual: 449 ft.

RGA LUST:

2012	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2011	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2010	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2009	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2008	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2007	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2006	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2005	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2003	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2002	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2001	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2000	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
1998	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
1997	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
1996	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
1995	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N

Areas of Concern **SAN GABRIEL VALLEY** **AOCONCERN** **CCA0000001**
N/A

LOS ANGELES (County), CA

< 1/8
1 ft.

AOCONCERN:
area where VOC contamination is at or above the MCL as designated by region 9 EPA office

NPL **SAN GABRIEL VALLEY (AREA 2)** **NPL** **1000114961**
Region **SUNSET & SAN BERNARDINO FREEWAY** **SEMS** **CAD980818512**
BALDWIN PARK, CA 91706 **US ENG CONTROLS**
< 1/8 **ROD**
1 ft. **PRP**

NPL:

EPA ID:	CAD980818512
Cerclis ID:	902092
EPA Region:	9
Federal:	N
Final Date:	1984-05-08 00:00:00
Site Score:	42.240000000000002
Latitude:	34.073610000000002
Longitude:	-117.9361

Category Details:

NPL Status:	Currently on the Final NPL
Category Description:	Depth To Aquifer-<= 10 Feet
Category Value:	1

NPL Status:	Currently on the Final NPL
Category Description:	Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value:	10

Site Details:

Site Name:	SAN GABRIEL VALLEY (AREA 2)
Site Status:	Final
Site Zip:	91706
Site City:	BALDWIN PARK
Site State:	CA
Federal Site:	No
Site County:	LOS ANGELES
EPA Region:	09
Date Proposed:	09/08/83
Date Deleted:	Not reported
Date Finalized:	05/08/84

Substance Details:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
Substance:	Not reported
CAS #:	Not reported
Pathway:	Not reported
Scoring:	Not reported

NPL Status:	Currently on the Final NPL
Substance ID:	U210
Substance:	TETRACHLOROETHENE
CAS #:	127-18-4
Pathway:	GROUND WATER PATHWAY
Scoring:	2

NPL Status:	Currently on the Final NPL
Substance ID:	U211
Substance:	CARBON TETRACHLORIDE
CAS #:	56-23-5
Pathway:	GROUND WATER PATHWAY

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: U228
Substance: TRICHLOROETHYLENE (TCE)
CAS #: 79-01-6
Pathway: GROUND WATER PATHWAY
Scoring: 2

Summary Details:

Conditions at listing September 1983): San Gabriel Valley Area 2) is a ground water plume that parallels the San Gabriel River to the west in the San Gabriel ground water basin in the Baldwin Park area of Los Angeles County, California. The plume is about 7.5 miles long and 1.5 miles wide. Ground water is contaminated with trichloroethylene TCE), perchloroethylene PCE), and carbon tetrachloride, according to analyses by State agencies and local water companies. Many public wells in the area exceed the EPA Suggested No Adverse Response Levels SNARL) for TCE and PCE. Approximately 100,000 people are affected. Cities and public water companies in the area have tested to ensure that their water supplies containless than 5 parts per billion ppb) of TCE, a level considered safe for human consumption. When alternative methods of reducing the TCE level below 5 ppb are not effective, wells are removed from service. Status June 1984): A supplemental sampling program of contaminated wells will begin soon to get a snapshot view of the degree of contamination. The State Department of Health Services and EPA are preparing to initiate a remedial investigation/ feasibility study to determine the aerial and vertical extent of contamination and to develop alternatives for treatment and management of the problem. EPA continues its investigation to identify sources of the contamination. This site, along with the threeother San Gabriel Valley sites, was added to the NPL in May 1984 because it involves a serious problem that required taking immediate remedial action.

Site Status Details:
NPL Status: Final
Proposed Date: 09/08/1983
Final Date: 05/08/1984
Deleted Date: Not reported

Narratives Details:
NPL Name: SAN GABRIEL VALLEY (AREA 2)
City: BALDWIN PARK
State: CA

SEMS:
Site ID: 902092
EPA ID: CAD980818512
Federal Facility: N
NPL: Currently on the Final NPL
Non NPL Status: Not reported

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0902092
EPA ID: CAD980818512
Facility County: LOS ANGELES

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Short Name:	SAN GABRIEL VALLEY (AREA
Congressional District:	32
IFMS ID:	09M5
SMSA Number:	4480
USGC Hydro Unit:	18070106
Federal Facility:	Not a Federal Facility
DMNSN Number:	12.25000
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	09
Classification:	Groundwater
Site Settings Code:	SU
NPL Status:	Currently on the Final NPL
DMNSN Unit Code:	SQMI
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Not reported
Non NPL Status Date:	/ /
Site Fips Code:	06037
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	9000127.00000
Contact Name:	Wayne Praskins
Contact Tel:	(415) 972-3181
Contact Title:	Remedial Project Manager (RPM)
Contact Email:	Not reported

Contact ID:	13003854.00000
Contact Name:	Leslie Ramirez
Contact Tel:	(415) 972-3978
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported

Contact ID:	13003858.00000
Contact Name:	Sharon Murray
Contact Tel:	(415) 972-4250
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported

Contact ID:	13004003.00000
Contact Name:	Carl Brickner
Contact Tel:	Not reported
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported

CERCLIS Site Alias Name(s):

Alias ID:	101

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Alias Name: BALDWIN PARK
Alias Address: Not reported
Not reported
Alias ID: 102
Alias Name: SAN GABRIEL VALLEY (AREA 2)
Alias Address: SUNSET & SN BERNARDINO FRWY
BALDWIN PARK, CA 91706
Alias ID: 103
Alias Name: SAN GABRIEL VALLEY (AREA 2)
Alias Address: SUNSET & SAN BERNARDINO FREEWAY
BALDWIN PARK AREA, CA 91706
Alias Comments: Not reported
Site Description: Four areas of groundwater contamination are listed on the National Priorities List: San Gabriel Valley Area 1, San Gabriel Valley Area 2, San Gabriel Valley 3, and San Gabriel Valley 4. The four areas represent a significant portion of the 170 square mile San Gabriel Valley in Los Angeles County, California. More than one million residents live in the San Gabriel Valley alongside a variety of commercial and industrial operations. The San Gabriel Aquifer, which underlies most of the San Gabriel Valley Basin, stores an estimated three trillion gallons of water and is the primary source of water for most of the Basin?s residents. Major surface water features in the San Gabriel Valley include the San Gabriel River, tributaries to the San Gabriel River system, and spreading basins located in or adjacent to the river channels. The approximate location of the San Gabriel Valley Area 2 Site is west of highway 39, south of the San Gabriel Mountains, east of the San Gabriel River, and north of Walnut Creek. Nearly all of the Baldwin Park area is fully developed for residential, commercial, and industrial use. The largest parcels of open land are active and inactive gravel pits and the Santa Fe flood Control Basin. Water purveyors in the site area include: the City of Azusa, California Domestic Water Company, City of Glendora, La Puente Valley County Water District, San Gabriel Valley Water Company, Suburban Water Systems, and Valley County Water District. Volatile Organic Compounds (VOCs), major contaminants of concern at the San Gabriel Valley Sites, were used in large quantities at industrial facilities as early as the 1940?s. From the 1940?s through the 1980?s, carbon tetrachloride, tetrachloroethane, thrichlorethene, and other chlorinated solvents were used by hundreds of businesses for degreasing, as raw materials for automotive products, by a solvent recycler, for chemical extractions , and for other purposes. VOCs have been released by a combination of intentional disposal, careless handling during loading and unloading, leaking tanks and pipes, and other means. VOCs were not detected in ground water until 1979 during environmental monitoring activities conducted by Aerojet Electrosystems near its facility in Azusa. In May 1984, EPA listed four areas of contamination were listed as San Gabriel Valley Area 1 through 4. EPA began its enforcement efforts in the site area in 1985 with searches for and evaluations of historical Federal, State, and local records on chemical usage, handling, and disposal. In 1985, the California Regional Water Quality Board began its Well Investigation Program (WIP) to identify the sources of ground water contamination detected in water supply wells. In 1989, EPA entered into a cooperative agreement to expand the WIP program to determine the nature and extent of contamination in the San Gabriel Valley. The RI/FS for the Baldwin Park OU was conducted concurrently with source identification efforts, as a fund-lead project. In March 1994, the Record of Decision (ROD) document was signed.

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Date Started: / /
Date Completed: 04/01/80
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: State, No Fund Money
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ISSUE REQUEST LETTERS (104E)
Date Started: / /
Date Completed: 08/01/83
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: SITE INSPECTION
Date Started: 03/01/83
Date Completed: 09/01/83
Priority Level: Higher priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 09/01/83
Priority Level: Higher priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: HAZARD RANKING SYSTEM PACKAGE
Date Started: / /
Date Completed: 09/01/83
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Code: 001
Action: PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started: / /
Date Completed: 09/08/83
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: ISSUE REQUEST LETTERS (104E)
Date Started: / /
Date Completed: 01/01/84
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: COMMUNITY INVOLVEMENT
Date Started: 05/01/84
Date Completed: 05/01/84
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started: / /
Date Completed: 05/08/84
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 003
Action: ISSUE REQUEST LETTERS (104E)
Date Started: / /
Date Completed: 12/30/88
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Code: 006
Action: Notice Letters Issued
Date Started: / /
Date Completed: 05/07/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 007
Action: Notice Letters Issued
Date Started: / /
Date Completed: 06/07/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 004
Action: ISSUE REQUEST LETTERS (104E)
Date Started: / /
Date Completed: 06/08/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 008
Action: Notice Letters Issued
Date Started: / /
Date Completed: 07/09/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 014
Action: Notice Letters Issued
Date Started: / /
Date Completed: 09/20/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Anomaly: Not reported

Action Code: 016
Action: Notice Letters Issued
Date Started: / /
Date Completed: 10/12/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 017
Action: Notice Letters Issued
Date Started: / /
Date Completed: 12/05/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 018
Action: Notice Letters Issued
Date Started: / /
Date Completed: 12/06/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 019
Action: Notice Letters Issued
Date Started: / /
Date Completed: 12/07/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: Notice Letters Issued
Date Started: / /
Date Completed: 02/07/91
Priority Level: Not reported
Operable Unit: SITEWIDE

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: Notice Letters Issued
Date Started: / /
Date Completed: 03/06/91
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 009
Action: Notice Letters Issued
Date Started: / /
Date Completed: 07/09/91
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 015
Action: Notice Letters Issued
Date Started: / /
Date Completed: 09/26/91
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ADMINISTATIVE/VOLUNTARY COST RECOVERY
Date Started: / /
Date Completed: 09/30/91
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: REMOVAL ASSESSMENT
Date Started: 12/27/91

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Date Completed: 12/27/91
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: RISK/HEALTH ASSESSMENT
Date Started: / /
Date Completed: 09/16/92
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ECOLOGICAL RISK ASSESSMENT
Date Started: / /
Date Completed: 09/16/92
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: Special Notice Issued
Date Started: / /
Date Completed: 05/26/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 010
Action: Notice Letters Issued
Date Started: / /
Date Completed: 08/04/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Code: 013
Action: Notice Letters Issued
Date Started: / /
Date Completed: 08/27/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: Special Notice Issued
Date Started: / /
Date Completed: 02/03/94
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 08/01/87
Date Completed: 03/31/94
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: RECORD OF DECISION
Date Started: / /
Date Completed: 03/31/94
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH
Date Started: 09/30/84
Date Completed: 07/01/94
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Code: 002
Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH
Date Started: 01/30/89
Date Completed: 07/01/94
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 011
Action: Notice Letters Issued
Date Started: / /
Date Completed: 08/09/94
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 003
Action: Notice Letters Issued
Date Started: / /
Date Completed: 04/13/95
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 004
Action: Notice Letters Issued
Date Started: / /
Date Completed: 04/20/95
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 005
Action: Notice Letters Issued
Date Started: / /
Date Completed: 05/05/95
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Code: 012
Action: Notice Letters Issued
Date Started: / /
Date Completed: 08/18/95
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 05/13/96
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: 05/15/97
Date Completed: 06/30/00
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 06/30/00
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PROSPECTIVE PURCHASER AGREEMENT ASSESSMENT
Date Started: 06/05/01
Date Completed: 09/25/01
Priority Level: PPA Signed
Operable Unit: BALDWIN PARK
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Code: 002
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 09/25/01
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: Lodged By DOJ
Date Started: / /
Date Completed: 04/11/02
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: Not reported
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ALTERNATIVE DISPUTE RESOLUTION
Date Started: 07/01/00
Date Completed: 05/31/02
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: CONSENT DECREE
Date Started: 01/01/02
Date Completed: 08/27/02
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 07/21/00
Date Completed: 09/26/02
Priority Level: Not reported
Operable Unit: LPVCWD SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Code: 003
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 07/21/00
Date Completed: 03/31/03
Priority Level: Not reported
Operable Unit: VCWD SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 004
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 07/21/00
Date Completed: 08/08/03
Priority Level: Not reported
Operable Unit: SGVWC B6 SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 09/26/02
Date Completed: 09/30/03
Priority Level: Interim RA Report
Operable Unit: LPVCWD SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 005
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 07/21/00
Date Completed: 09/29/04
Priority Level: Not reported
Operable Unit: SGVWC B5 SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 003
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 03/31/03
Date Completed: 09/30/04
Priority Level: Interim RA Report
Operable Unit: VCWD SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Long Term Action

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Anomaly: Not reported

Action Code: 001
Action: CLAIM IN BANKRUPTCY PROCEEDING
Date Started: 03/14/05
Date Completed: 03/14/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 004
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 08/08/03
Date Completed: 03/31/05
Priority Level: Interim RA Report
Operable Unit: SGVWC B6 SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Long Term Action
Action Anomaly: Not reported

Action Code: 010
Action: Lodged By DOJ
Date Started: / /
Date Completed: 09/20/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 012
Action: Lodged By DOJ
Date Started: / /
Date Completed: 10/26/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 011
Action: Lodged By DOJ
Date Started: / /
Date Completed: 10/26/05
Priority Level: Not reported
Operable Unit: SITEWIDE

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 013
Action: Lodged By DOJ
Date Started: / /
Date Completed: 10/26/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 009
Action: Lodged By DOJ
Date Started: / /
Date Completed: 10/26/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 008
Action: Lodged By DOJ
Date Started: / /
Date Completed: 10/26/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 007
Action: Lodged By DOJ
Date Started: / /
Date Completed: 10/26/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 006
Action: Lodged By DOJ
Date Started: / /

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Date Completed: 10/26/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: SETTLEMENT (GENERIC)
Date Started: / /
Date Completed: 11/01/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 005
Action: CONSENT DECREE
Date Started: 09/28/05
Date Completed: 12/12/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 006
Action: CONSENT DECREE
Date Started: 09/28/05
Date Completed: 12/13/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: CONSENT DECREE
Date Started: 09/28/05
Date Completed: 12/13/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Code: 003
Action: CONSENT DECREE
Date Started: 09/28/05
Date Completed: 12/13/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 004
Action: CONSENT DECREE
Date Started: 09/28/05
Date Completed: 12/13/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 007
Action: CONSENT DECREE
Date Started: 09/28/05
Date Completed: 12/14/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 008
Action: CONSENT DECREE
Date Started: 09/28/05
Date Completed: 12/16/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 005
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 09/29/04
Date Completed: 09/28/06
Priority Level: Interim RA Report
Operable Unit: SGVWC B5 SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Anomaly: Not reported

Action Code: 009
Action: CONSENT DECREE
Date Started: 03/26/07
Date Completed: 03/26/07
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 014
Action: Lodged By DOJ
Date Started: / /
Date Completed: 06/21/07
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: FIVE-YEAR REVIEW
Date Started: 05/01/07
Date Completed: 09/27/07
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: FIVE-YEAR REVIEW
Date Started: / /
Date Completed: 09/24/12
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 07/21/00
Date Completed: / /
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: Responsible Party

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Other Start and Completion Anomaly

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 09/26/02
Date Completed: / /
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Other Start and Completion Anomaly

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY LONG-TERM RESPONSE ACTION
Date Started: 09/30/03
Date Completed: / /
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: OPERATIONS AND MAINTENANCE
Date Started: 09/30/03
Date Completed: / /
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: OPERATIONS AND MAINTENANCE
Date Started: 09/30/03
Date Completed: / /
Priority Level: Not reported
Operable Unit: LPVCWD SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 003
Action: OPERATIONS AND MAINTENANCE
Date Started: 09/30/04
Date Completed: / /
Priority Level: Not reported
Operable Unit: VCWD SUBPROJECT
Primary Responsibility: Responsible Party

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 004
Action: OPERATIONS AND MAINTENANCE
Date Started: 03/31/05
Date Completed: / /
Priority Level: Not reported
Operable Unit: SGVWC B6 SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 005
Action: OPERATIONS AND MAINTENANCE
Date Started: 09/28/06
Date Completed: / /
Priority Level: Not reported
Operable Unit: SGVWC B5 SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Federal Register Details:
Fed Register Date: 05/08/84
Fed Register Volume: 49
Page Number: 19480

Fed Register Date: 09/08/83
Fed Register Volume: 48
Page Number: 40674

US ENG CONTROLS:
EPA ID: CAD980818512
Site ID: 0902092
Name: SAN GABRIEL VALLEY (AREA 2)
Address: SUNSET & SAN BERNARDINO FREEWAY
BALDWIN PARK, CA 91706
EPA Region: 09
County: LOS ANGELES
Event Code: Not reported
Actual Date: 03/31/1994
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported
Event Code Description: Not reported
GIS Lat/Long Sequence: Not reported
GIS Sequence: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/31/1994
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Air Stripping
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported
Event Code Description: Not reported
GIS Lat/Long Sequence: Not reported
GIS Sequence: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/31/1994
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Discharge
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported
Event Code Description: Not reported
GIS Lat/Long Sequence: Not reported
GIS Sequence: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/31/1994
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Liquid Phase Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported
Event Code Description: Not reported
GIS Lat/Long Sequence: Not reported
GIS Sequence: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/31/1994
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported
Event Code Description: Not reported
GIS Lat/Long Sequence: Not reported
GIS Sequence: Not reported

Action ID: 001

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Name: RECORD OF DECISION
Action Completion date: 03/31/1994
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Pump And Treat
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported
Event Code Description: Not reported
GIS Lat/Long Sequence: Not reported
GIS Sequence: Not reported

ROD:
Full-text of USEPA Record of Decision(s) is available from EDR.

PRP:
PRP name:
A & J SYSTEMS
A&E PLASTICS CO.
A-1 ORNAMENTAL IRON
ACORN ENGINEERING CO.
ACROMIL
ADAMS AND COLTRIN, INC.
ADAMS CAMPBELL CO., LTD.
ADVANCED HEAT TECHNOLOGY CORP.
AEROJET ELECTROSYSTEMS
AEROJET ELECTROSYSTEMS
AEROJET-GENERAL CORP.
AEROJET-GENERAL CORP.
AEROJET-GENERAL CORP.
AEROSOL SERVICES COMPANY
AIR DISTRIBUTION PRODUCTS, INC.
ALLEGIANCE HEALTHCARE CORPORATION
ALLEGIANCE HEALTHCARE CORPORATION
ALLFAST FASTENING SYSTEMS, INC.
ALLIED PHOTO PRODUCTS INC.
ALLSTATE INSURANCE CO.
AMERICAN SHEDS INC.
ARCADIA MACHINE AND TOOL
AREMAC ASSOCIATES
AREMAC HEAT TREATING,INC.
ARMY CORPS OF ENGINEERS
ARTHUR B. SCHULTZ AND JOSEPH POLTORAK
ARTISTIC POLISHING AND PLATING
ASSOCIATED ASPHALT PAVING MATERIALS
ASTRO SEAL, INC.
ASTRO SEAL, INC.
ASTRONAUTIC ENAMELERS
AZUSA GAS SYSTEMS
AZUSA LAND RECLAMATION
AZUSA LAND RECLAMATION
AZUSA PIPE AND TUBE BENDING
AZUSA PIPE AND TUBE BENDING
AZUSA ROCK INC.
B&B RED-I-MIX-CONCRETE INC.

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

BALL-ICON, BALL GLASS DIV.
BAXTER HEALTHCARE CORPORATION
BDP CO.
BENCHMARK HOLDING GROUP
BENCHMARK TECHNOLOGY
BIRTCHER
BRENT FAMILY TRUST
BROWN JORDEN CO.
C&H DISTRIBUTING
CAL MAT CO.
CALIFORNIA HYDROFORMING CO., INC.
CALIFORNIA STEEL AND TUBE
CALTRANS
CARDINAL INDUSTRIES FINISHERS
CHAMPION PARTS, INC.
CHARLES HOFGAARDEN
CHEM ARROW CORPORATION
CHEMICAL WASTE MANAGEMENT
CHEMLAWN SERVICE CORP.
CHEVRON CORPORATION
CHEVRON USA, INC.
CLAUDEAN MULLINS KAWIE

Click this hyperlink while viewing on your computer to access
193 additional PRP: record(s) in the EDR Site Report.

B14 **FORD PRINTING & MAILING INC.** **WIP** **S106766481**
NW **5102 AZUSA CANYON RD** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.009 mi.
46 ft. **Site 1 of 4 in cluster B**

Relative:
Higher

Actual:
451 ft.

WIP:
Region: 4
File Number: 108.0459
File Status: **Historical**
Staff: DKOO
Facility Suite: Not reported

B15 **KARL BRYAN PLUMBING** **WIP** **S106766959**
West **5029 AZUSA CANYON RD** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.019 mi.
102 ft. **Site 2 of 4 in cluster B**

Relative:
Higher

Actual:
449 ft.

WIP:
Region: 4
File Number: 108.1131
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: Not reported

C16 **D-L MACHINE SHOP** **WIP** **1000343828**
SSW **4946 AZUSA CANYON RD** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.021 mi.
111 ft. **Site 1 of 6 in cluster C**

Relative:
Lower

Actual:
447 ft.

WIP:
Region: 4
File Number: 108.0455
File Status: **Historical**
Staff: TB
Facility Suite: Not reported

Region: 4
File Number: 108.0456
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: Not reported

C17 **EDR Hist Auto** **1015519108**
SSW **4946 AZUSA CANYON RD** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.021 mi.
111 ft. **Site 2 of 6 in cluster C**

Relative:
Lower

Actual:
447 ft.

EDR Historical Auto Stations:
Name: ARROW ENGINEERING
Year: 2006
Address: 4946 AZUSA CANYON RD

Name: ARROW ENGINEERING
Year: 2007
Address: 4946 AZUSA CANYON RD

Name: ARROW ENGINEERING
Year: 2008
Address: 4946 AZUSA CANYON RD

C18 **ADVANCE MARINE & DEVELOPMENT** **WIP** **S106766480**
SSW **4954 AZUSA CANYON RD** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.027 mi.
140 ft. **Site 3 of 6 in cluster C**

Relative:
Lower

Actual:
446 ft.

WIP:
Region: 4
File Number: 108.0457
File Status: **Historical**
Staff: TB
Facility Suite: Not reported

C19
SSW
< 1/8
0.027 mi.
140 ft.

EDR Hist Auto **1015519465**
N/A

4954 AZUSA CANYON RD
BALDWIN PARK, CA 91706

Site 4 of 6 in cluster C

Relative:
Lower

Actual:
446 ft.

EDR Historical Auto Stations:

Name:	SAMS FOREIGN & DOMESTIC AUTO CENTER
Year:	1999
Address:	4954 AZUSA CANYON RD
Name:	SAMS FOREIGN & DOM AUTO CTR
Year:	2004
Address:	4954 AZUSA CANYON RD
Name:	SAMS FOREIGN & DOMESTIC AUTO CENTER
Year:	2007
Address:	4954 AZUSA CANYON RD
Name:	SAMS FOREIGN & DOM AUTO CENTER
Year:	2008
Address:	4954 AZUSA CANYON RD
Name:	SAMS FOREIGN & DOMESTIC AUTO CENTER
Year:	2009
Address:	4954 AZUSA CANYON RD
Name:	SAMS FOREIGN & DOMESTIC AUTO
Year:	2010
Address:	4954 AZUSA CANYON RD
Name:	SAMS FOREIGN & DOMESTIC AUTO CENTER
Year:	2011
Address:	4954 AZUSA CANYON RD
Name:	SAMS FOREIGN & DOMESTIC AUTO CENTER
Year:	2012
Address:	4954 AZUSA CANYON RD

B20
NNW
< 1/8
0.027 mi.
140 ft.

WIP **S106766482**
N/A

PLASTECH TRANSPARENCIES
5108 AZUSA CANYON RD
IRWINDALE, CA 91706

Site 3 of 4 in cluster B

Relative:
Higher

Actual:
453 ft.

WIP:

Region:	4
File Number:	108.0460
File Status:	**Historical**
Staff:	DRASMUSS
Facility Suite:	Not reported

B21
NNW
< 1/8
0.027 mi.
140 ft.

IMPERIAL HORIZON — **WIP** — **S106766346**
5116 AZUSA CANYON RD — **N/A**
IRWINDALE, CA 91706

Site 4 of 4 in cluster B

Relative:
Higher

Actual:
453 ft.

WIP:

Region:	4
File Number:	108.0202
File Status:	**Not reported**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

22
SW
< 1/8
0.038 mi.
200 ft.

ALBERT C. CLEGG & SONS — **WIP** — **S106766958**
4945 AZUSA CANYON RD — **N/A**
BALDWIN PARK, CA 91706

Relative:
Lower

Actual:
445 ft.

WIP:

Region:	4
File Number:	108.1130
File Status:	**Not reported**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

C23
SSW
< 1/8
0.043 mi.
228 ft.

RODRIQUEZ TRUCKING — **LUST** — **S106024788**
4938 AZUSA CANYON RD — **LOS ANGELES CO. HMS** — **N/A**
IRWINDALE, CA 91706

Site 5 of 6 in cluster C

Relative:
Lower

Actual:
446 ft.

LUST:

Region:	STATE
Global Id:	T10000000418
Latitude:	34.1026169318283
Longitude:	-117.942616877246
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	10/21/2008
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	JR
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-16981
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T10000000418
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA

RODRIQUEZ TRUCKING (Continued) **S106024788**

Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T10000000418
Contact Type: Regional Board Caseworker
Contact Name: JAMES RYAN
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: West 4th Street, Suite 200
City: LOS ANGELES
Email: jamesw.ryan@waterboards.ca.gov
Phone Number: 2135766711

Status History:
Global Id: T10000000418
Status: Open - Case Begin Date
Status Date: 10/21/2008

Global Id: T10000000418
Status: Open - Site Assessment
Status Date: 10/21/2008

Regulatory Activities:
Global Id: T10000000418
Action Type: RESPONSE
Date: 05/17/2015
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T10000000418
Action Type: ENFORCEMENT
Date: 01/27/2016
Action: Health and Safety Code Section 25296.10(c)

Global Id: T10000000418
Action Type: Other
Date: 08/14/2001
Action: Leak Discovery

Global Id: T10000000418
Action Type: ENFORCEMENT
Date: 06/17/2015
Action: Health and Safety Code Section 25296.10(c)

Global Id: T10000000418
Action Type: ENFORCEMENT
Date: 04/02/2015
Action: Staff Letter

Global Id: T10000000418
Action Type: RESPONSE
Date: 04/30/2016
Action: Soil and Water Investigation Report

Global Id: T10000000418
Action Type: ENFORCEMENT
Date: 07/01/2013
Action: Referral to Other State Agency

RODRIQUEZ TRUCKING (Continued) **S106024788**

Global Id: T10000000418
Action Type: ENFORCEMENT
Date: 03/18/2015
Action: Referral to Regional Board

Global Id: T10000000418
Action Type: RESPONSE
Date: 02/29/2016
Action: Other Report / Document

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 015531-016981
Facility Type: 1
Facility Status: Removed
Area: 3S
Permit Number: 000323486
Permit Status: Removed

Region: LA
Permit Category: I
Facility Id: 015531-043683
Facility Type: 01
Facility Status: Permit
Area: 3S
Permit Number: 000431363
Permit Status: Permit

C24 **RODRIGUEZ TRUCKING, J. G.** **WIP** **U001569001**
SSW **4938 AZUSA CANYON RD** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.043 mi.
228 ft. **Site 6 of 6 in cluster C**

Relative:
Lower

Actual:
446 ft.

WIP:
Region: 4
File Number: 108.0454
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: Not reported

D25 **HARPENG MATCH PLATE** **WIP** **S106766477**
South **4910 AZUSA CANYON RD** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.047 mi.
250 ft. **Site 1 of 4 in cluster D**

Relative:
Lower

Actual:
445 ft.

WIP:
Region: 4
File Number: 108.0451
File Status: **Historical**
Staff: PAR
Facility Suite: Not reported

D26
South
< 1/8
0.047 mi.
250 ft.

HARPENG MATCH PLATE — **WIP** — **S106766478**
4910 AZUSA CANYON RD — **N/A**
BALDWIN PARK, CA 91750

Site 2 of 4 in cluster D

Relative:
Lower

Actual:
445 ft.

WIP:

Region:	4
File Number:	108.0452
File Status:	**Historical**
Staff:	DRASMUSS
Facility Suite:	Not reported

E27
NNW
< 1/8
0.060 mi.
317 ft.

ORECO DUCT SYSTEMS, INC. — **WIP** — **S106766960**
5119 AZUSA CANYON RD — **N/A**
BALDWIN PARK, CA 91706

Site 1 of 15 in cluster E

Relative:
Higher

Actual:
454 ft.

WIP:

Region:	4
File Number:	108.1134
File Status:	**Historical**
Staff:	DKOO
Facility Suite:	Not reported

F28
SSW
< 1/8
0.073 mi.
385 ft.

MALCOLM DRILLING CO INC — **RCRA-SQG** — **1000595938**
4926 N AZUSA CANYON RD — **FINDS** — **CAD983598962**
IRWINDALE, CA 91706 — **EMI**
LOS ANGELES CO. HMS
ECHO

Site 1 of 5 in cluster F

Relative:
Lower

Actual:
442 ft.

RCRA-SQG:

Date form received by agency:	10/21/2004
Facility name:	MALCOLM DRILLING CO INC
Facility address:	4926 N AZUSA CANYON RD IRWINDALE, CA 91706
EPA ID:	CAD983598962
Contact:	MICHAEL R BRASHEAR
Contact address:	4926 N AZUSA CANYON RD IRWINDALE, CA 91706
Contact country:	US
Contact telephone:	626-337-8131
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	MALCOLM
Owner/operator address:	4926 N AZUSA CYN RD IRWINDALE, CA 91706
Owner/operator country:	US
Owner/operator telephone:	Not reported

MALCOLM DRILLING CO INC (Continued) **1000595938**

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/01/1997
Owner/Op end date: Not reported

Owner/operator name: MALCOLM DRILLING CO INC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/01/1997
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

Historical Generators:
Date form received by agency: 07/17/1992
Site name: C M Z TRUCKING CO
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002855955

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

MALCOLM DRILLING CO INC (Continued) **1000595938**

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	77893
Air District Name:	SC
SIC Code:	5
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	I
Facility Id:	008649-025562
Facility Type:	01
Facility Status:	Permit
Area:	3S
Permit Number:	000015101
Permit Status:	Permit

Region:	LA
Permit Category:	T
Facility Id:	008649-026668
Facility Type:	0
Facility Status:	Removed
Area:	3S
Permit Number:	000240999
Permit Status:	Removed

ECHO:

Envid:	1000595938
Registry ID:	110002855955
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002855955

F29 **CM2 COMPANY INC** **SWEEPS UST** **S106924741**
SSW **4926 AZUSA CANYON** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.073 mi.
385 ft. **Site 2 of 5 in cluster F**

Relative:
Lower

Actual:
442 ft.

SWEEPS UST:

Status:	Active
Comp Number:	15819
Number:	1
Board Of Equalization:	Not reported
Referral Date:	01-04-91
Action Date:	01-04-91
Created Date:	01-04-91

CM2 COMPANY INC (Continued) **S106924741**

Owner Tank Id: 1
SWRCB Tank Id: 19-000-015819-000001
Tank Status: A
Capacity: 6000
Active Date: 01-04-91
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 2

Status: Active
Comp Number: 15819
Number: 1
Board Of Equalization: Not reported
Referral Date: 01-04-91
Action Date: 01-04-91
Created Date: 01-04-91
Owner Tank Id: 2
SWRCB Tank Id: 19-000-015819-000002
Tank Status: A
Capacity: 6000
Active Date: 01-04-91
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

F30 **MALCOLM DRILLING CO INC** **UST** **U004049527**
SSW **4926 AZUSA CANYON RD** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.073 mi.
385 ft. **Site 3 of 5 in cluster F**

Relative:
Lower

Actual:
442 ft.

UST:
Facility ID: 26668
Permitting Agency: LOS ANGELES COUNTY
Latitude: 34.103583
Longitude: -117.940484

F31 **CMZ COMPANY** **LOS ANGELES CO. HMS** **U002282001**
SSW **4926 N AZUSA CANYON RD** **WIP** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.073 mi.
385 ft. **Site 4 of 5 in cluster F**

Relative:
Lower

Actual:
442 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 008649-015819
Facility Type: 0
Facility Status: Closed
Area: 3S
Permit Number: 00006018T
Permit Status: Closed

Region: LA

CMZ COMPANY (Continued) **U002282001**

Permit Category: I
Facility Id: 008649-I15819
Facility Type: 01
Facility Status: Closed
Area: 3S
Permit Number: 00010767C
Permit Status: Closed

Region: LA
Permit Category: I
Facility Id: 008649-I15819
Facility Type: 01
Facility Status: Closed
Area: 3S
Permit Number: 000139114
Permit Status: Closed

WIP:
Region: 4
File Number: 108.0453
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

D32 **EDR Hist Auto** **1015517405**
SSW **4900 AZUSA CANYON RD** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.075 mi.
398 ft. **Site 3 of 4 in cluster D**

Relative:
Lower

Actual:
442 ft.

EDR Historical Auto Stations:
Name: JORGE AUTO
Year: 1999
Address: 4900 AZUSA CANYON RD

D33 **ACTIVE AIRCRAFT WELDING** **WIP** **S103661670**
South **4848 AZUSA CANYON RD** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.084 mi.
444 ft. **Site 4 of 4 in cluster D**

Relative:
Lower

Actual:
444 ft.

WIP:
Region: 4
File Number: 108.0447
File Status: Historical
Staff: TB
Facility Suite: Not reported

Region: 4
File Number: 108.0448
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

34
East
< 1/8
0.085 mi.
451 ft.

CALIFORNIA COMMUNITY NEWS
5091 004TH ST
IRWINDALE, CA 91706

AST **A100418120**
N/A

Relative:
Lower

Actual:
394 ft.

AST:

Certified Unified Program Agencies:	Not reported
Owner:	TRIBUNE PUBLISHING
Total Gallons:	Not reported
CERSID:	10285027
Facility ID:	LACoFA0033116
Business Name:	CALIFORNIA COMMUNITY NEWS
Phone:	626-472-5200
Fax:	Not reported
Mailing Address:	5091 4TH STREET
Mailing Address City:	IRWINDALE
Mailing Address State:	CA
Mailing Address Zip Code:	91706
Operator Name:	CALIFORNIA COMMUNITY NEWS
Operator Phone:	626-472-5200
Owner Phone:	(213) 222-9100
Owner Mail Address:	435 NORTH MICHIGAN AVENUE
Owner State:	IL
Owner Zip Code:	60611
Owner Country:	United States
Property Owner Name:	TRIBUNE REAL ESTATE HOLDINGS, LLC
Property Owner Phone:	Not reported
Property Owner Mailing Address:	2029 CENTURY PARK EAST, SUITE 2620
Property Owner City:	LOS ANGELES
Property Owner Stat :	CA
Property Owner Zip Code:	90067
Property Owner Country:	United States
EPAID:	CAL000267478

G35
NNE
< 1/8
0.091 mi.
478 ft.

LA CO FD FIRE STA #048
15546 ARROW HWY
IRWINDALE, CA 91706

Site 1 of 12 in cluster G

SWEEPS UST **S102063252**
HIST UST **N/A**
LOS ANGELES CO. HMS

Relative:
Higher

Actual:
459 ft.

SWEEPS UST:

Status:	Active
Comp Number:	12516
Number:	9
Board Of Equalization:	44-009793
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-012516-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	1

LA CO FD FIRE STA #048 (Continued) **S102063252**

HIST UST:

File Number:	0002746C
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002746C.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T
Facility Id:	012385-012516
Facility Type:	0
Facility Status:	Removed
Area:	3S
Permit Number:	00004273T
Permit Status:	Removed

F36 **UTILITY DISPOSAL COMPANY** **WIP** **S106766476**
SSW **4854 AZUSA CANYON RD** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.093 mi.
489 ft. **Site 5 of 5 in cluster F**

Relative:
Lower

Actual:
442 ft.

WIP:

Region:	4
File Number:	108.0449
File Status:	**Not reported**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

E37 **NELSON DESIGN & FABRICATION** **WIP** **S106766961**
NNW **5143 AZUSA CANYON RD** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.093 mi.
493 ft. **Site 2 of 15 in cluster E**

Relative: **Higher**

Actual: **456 ft.**

WIP:
Region: 4
File Number: 108.1135
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: Not reported

E38 **TOM CHATSUWAN STRETCHED ART** **WIP** **S106766962**
NNW **5145 AZUSA CANYON RD** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.095 mi.
499 ft. **Site 3 of 15 in cluster E**

Relative: **Higher**

Actual: **456 ft.**

WIP:
Region: 4
File Number: 108.1136
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: Not reported

E39 **J C CANVAS** **WIP** **S106766349**
NNW **5145 AZUSA CANYON RD** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.095 mi.
499 ft. **Site 4 of 15 in cluster E**

Relative: **Higher**

Actual: **456 ft.**

WIP:
Region: 4
File Number: 108.0210
File Status: **Historical**
Staff: DRASMUSS
Facility Suite: Not reported

E40 **MITCH'S AUTO** **WIP** **S100940211**
NNW **5151 AZUSA CANYON RD** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.098 mi.
516 ft. **Site 5 of 15 in cluster E**

Relative: **Higher**

Actual: **456 ft.**

WIP:
Region: 4
File Number: 108.1138
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: Not reported

E41
NNW
< 1/8
0.099 mi.
522 ft.

F. M. DIE — **WIP** — **S106766963**
5153 AZUSA CANYON RD — **N/A**
BALDWIN PARK, CA 91706

Site 6 of 15 in cluster E

Relative:
Higher

Actual:
456 ft.

WIP:
Region: 4
File Number: 108.1139
File Status: Historical
Staff: TB
Facility Suite: Not reported

E42
NNW
< 1/8
0.100 mi.
527 ft.

C. O. X. — **WIP** — **S106766964**
5155 AZUSA CANYON RD — **N/A**
BALDWIN PARK, CA 91706

Site 7 of 15 in cluster E

Relative:
Higher

Actual:
456 ft.

WIP:
Region: 4
File Number: 108.1140
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

E43
NNW
< 1/8
0.101 mi.
533 ft.

TOMCO PRODUCTS — **WIP** — **S106766965**
5157 AZUSA CANYON RD — **N/A**
BALDWIN PARK, CA 91706

Site 8 of 15 in cluster E

Relative:
Higher

Actual:
456 ft.

WIP:
Region: 4
File Number: 108.1141
File Status: Historical
Staff: TB
Facility Suite: Not reported

E44
NNW
< 1/8
0.102 mi.
541 ft.

STUART TOOL SERVICE CENTER — **WIP** — **S106766375**
15426 E ARROW HWY — **N/A**
BALDWIN PARK, CA 91706

Site 9 of 15 in cluster E

Relative:
Higher

Actual:
456 ft.

WIP:
Region: 4
File Number: 108.0265
File Status: Historical
Staff: WLIU
Facility Suite: Not reported

E45
NNW
< 1/8
0.104 mi.
550 ft.

NICKS CUSTOM WELDING — **WIP** — **S106766966**
5163 AZUSA CANYON RD — **N/A**
BALDWIN PARK, CA 91706

Site 10 of 15 in cluster E

Relative:
Higher

Actual:
456 ft.

WIP:
Region: 4
File Number: 108.1142
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

E46
NNW
< 1/8
0.104 mi.
550 ft.

5163 AZUSA CANYON RD — **EDR Hist Auto** — **1015534989**
BALDWIN PARK, CA 91706 — **N/A**

Site 11 of 15 in cluster E

Relative:
Higher

Actual:
456 ft.

EDR Historical Auto Stations:

Name: GARCIAS BODY SHOP
Year: 1999
Address: 5163 AZUSA CANYON RD

Name: GARCIAS BODY SHOP
Year: 2001
Address: 5163 AZUSA CANYON RD

Name: GARCIAS BODY SHOP
Year: 2002
Address: 5163 AZUSA CANYON RD

Name: GARCIAS BODY SHOP
Year: 2005
Address: 5163 AZUSA CANYON RD

Name: GARCIAS BODY SHOP
Year: 2006
Address: 5163 AZUSA CANYON RD

Name: GARCIAS BODY SHOP
Year: 2007
Address: 5163 AZUSA CANYON RD

Name: GARCIAS BODY SHOP
Year: 2008
Address: 5163 AZUSA CANYON RD

Name: GARCIAS BODY SHOP
Year: 2009
Address: 5163 AZUSA CANYON RD

Name: GARCIAS BODY SHOP
Year: 2010
Address: 5163 AZUSA CANYON RD

Name: GARCIAS BODY SHOP
Year: 2011
Address: 5163 AZUSA CANYON RD

(Continued) **1015534989**

Name: GARCIAS BODY SHOP
Year: 2012
Address: 5163 AZUSA CANYON RD

E47 **OCCUPANT** **WIP** **S106766347**
NNW **5165 AZUSA CANYON RD** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.105 mi.
556 ft. **Site 12 of 15 in cluster E**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.0207
File Status: **Not reported**
Staff: UNIDENTIFIED
Facility Suite: Not reported

E48 **EDR Hist Auto** **1015535044**
NNW **5167 AZUSA CANYON RD** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.106 mi.
561 ft. **Site 13 of 15 in cluster E**

Relative:
Higher

Actual:
457 ft.

EDR Historical Auto Stations:
Name: UNITED AUTO REPAIR
Year: 1999
Address: 5167 AZUSA CANYON RD

Name: UNITED AUTO REPAIR
Year: 2002
Address: 5167 AZUSA CANYON RD

E49 **OCCUPANT** **WIP** **S106766348**
NNW **5167 AZUSA CANYON RD** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.106 mi.
561 ft. **Site 14 of 15 in cluster E**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.0208
File Status: **Not reported**
Staff: UNIDENTIFIED
Facility Suite: Not reported

E50
NNW
< 1/8
0.107 mi.
567 ft.

CALIFORNIA BOWLING SHIRT
5169 AZUSA CANYON RD
BALDWIN PARK, CA 91706

Site 15 of 15 in cluster E

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1143
File Status: Historical
Staff: DRASMUSS
Facility Suite: Not reported

WIP **S106766967**
N/A

G51
NNE
< 1/8
0.119 mi.
627 ft.

A. J. BREWER SPECILITIES
15558 ARROW HWY
IRWINDALE, CA 91706

Site 2 of 12 in cluster G

Relative:
Higher

Actual:
462 ft.

WIP:
Region: 4
File Number: 108.0332
File Status: Historical
Staff: TB
Facility Suite: D

WIP **S106766418**
N/A

G52
NNE
< 1/8
0.119 mi.
627 ft.

CARTER'S METAL FABRICATORS INC
15560 ARROW HWY
IRWINDALE, CA 91706

Site 3 of 12 in cluster G

Relative:
Higher

Actual:
462 ft.

WIP:
Region: 4
File Number: 108.0336
File Status: Historical
Staff: DKOO
Facility Suite: C&D

WIP **S106766421**
N/A

G53
NNE
< 1/8
0.119 mi.
627 ft.

PLASTECH
15558 ARROW HWY
IRWINDALE, CA 91706

Site 4 of 12 in cluster G

Relative:
Higher

Actual:
462 ft.

WIP:
Region: 4
File Number: 108.0335
File Status: Historical
Staff: TB
Facility Suite: B

WIP **S106766420**
N/A

G54 **CHEZ CARRIE CATERING** **WIP** **S106766417**
NNE **15556 ARROW HWY** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.119 mi.
627 ft. **Site 5 of 12 in cluster G**

Relative:
Higher

Actual:
462 ft.

WIP:
Region: 4
File Number: 108.0331
File Status: Historical
Staff: TB
Facility Suite: C

G55 **JENDEN WEST** **WIP** **S106766371**
NNE **15556 ARROW HWY** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.119 mi.
627 ft. **Site 6 of 12 in cluster G**

Relative:
Higher

Actual:
462 ft.

WIP:
Region: 4
File Number: 108.0258
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

G56 **PLASTECH TRANSPARENCIES** **WIP** **S106766416**
NNE **15554 E ARROW HWY** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.119 mi.
627 ft. **Site 7 of 12 in cluster G**

Relative:
Higher

Actual:
462 ft.

WIP:
Region: 4
File Number: 108.0330
File Status: Historical
Staff: DRASMUSS
Facility Suite: A

G57 **EDR Hist Auto** **1015247327**
NNE **15556 ARROW HWY** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.119 mi.
627 ft. **Site 8 of 12 in cluster G**

Relative:
Higher

Actual:
462 ft.

EDR Historical Auto Stations:
Name: MAPE ENGINEERING
Year: 2007
Address: 15556 ARROW HWY

Name: MAPE ENGINEERING
Year: 2008
Address: 15556 ARROW HWY

G58 **SAAVEDRA WOOD PROD & CONSTR.** **WIP** **S106766372**
NNE **15560 ARROW HWY** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.119 mi.
627 ft. **Site 9 of 12 in cluster G**

Relative: WIP:
Higher Region: 4
File Number: 108.0260
Actual: **File Status:** **Not reported**
462 ft. Staff: UNIDENTIFIED
Facility Suite: A/B

G59 **A-ARTISTIC PRINTING** **WIP** **S106766419**
NNE **15558 ARROW HWY** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.119 mi.
627 ft. **Site 10 of 12 in cluster G**

Relative: WIP:
Higher Region: 4
File Number: 108.0333
Actual: **File Status:** **Historical**
462 ft. Staff: UNIDENTIFIED
Facility Suite: Not reported

H60 **GIANGREGORIO CONSTRUCTION** **WIP** **S106766947**
NNW **15480 ARROW HWY** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.123 mi.
651 ft. **Site 1 of 26 in cluster H**

Relative: WIP:
Higher Region: 4
File Number: 108.1111
Actual: **File Status:** **Not reported**
457 ft. Staff: UNIDENTIFIED
Facility Suite: 212

H61 **NLE, INC.** **WIP** **S106766949**
NNW **15480 ARROW HWY** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.123 mi.
651 ft. **Site 2 of 26 in cluster H**

Relative: WIP:
Higher Region: 4
File Number: 108.1114
Actual: **File Status:** **Historical**
457 ft. Staff: UNIDENTIFIED
Facility Suite: 216

H62 **ELEKTRA IND SUPPLY INC.** **WIP** **S106766948**
NNW **15480 ARROW HWY** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.123 mi.
651 ft. **Site 3 of 26 in cluster H**

Relative: **Higher**

Actual: **457 ft.**

WIP:
Region: 4
File Number: 108.1112
File Status: **Not reported**
Staff: UNIDENTIFIED
Facility Suite: Not reported

H63 **NO FRILLS TRUCKING INC.** **WIP** **S106766946**
NNW **15480 ARROW HWY** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.123 mi.
651 ft. **Site 4 of 26 in cluster H**

Relative: **Higher**

Actual: **457 ft.**

WIP:
Region: 4
File Number: 108.1110
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: 205

H64 **NO FRILLS TRUCKING** **WIP** **S106766945**
NNW **15480 ARROW HWY** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.123 mi.
651 ft. **Site 5 of 26 in cluster H**

Relative: **Higher**

Actual: **457 ft.**

WIP:
Region: 4
File Number: 108.1109
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: 205

H65 **DBEV ENVIRONMENTAL SERVICES** **RCRA NonGen / NLR** **1000594552**
NNW **15480 ARROW HWY STE 207** **FINDS** **CAD983583931**
< 1/8 **BALDWIN PARK, CA 91706** **ECHO**
0.123 mi.
651 ft. **Site 6 of 26 in cluster H**

Relative: **Higher**

Actual: **457 ft.**

RCRA NonGen / NLR:
Date form received by agency: 07/05/1991
Facility name: DBEV ENVIRONMENTAL SERVICES
Facility address: 15480 ARROW HWY STE 207
BALDWIN PARK, CA 91706
EPA ID: CAD983583931
Mailing address: ARROW HWY STE 207
BALDWIN PARK, CA 91706
Contact: DWIGHT HIGGS
Contact address: 15480 ARROW HWY STE 207
BALDWIN PARK, CA 91706
Contact country: US

DBEV ENVIRONMENTAL SERVICES (Continued) **1000594552**

Contact telephone: (818) 960-2211
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: DWIGHT ANTHONY HIGGS
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002845501

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

DBEV ENVIRONMENTAL SERVICES (Continued) **1000594552**

ECHO:
Envid: 1000594552
Registry ID: 110002845501
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002845501

H66 **OCCUPANT** **WIP** **S107257165**
NNW **15472 E ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.125 mi.
662 ft. **Site 7 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.0271
File Status: **Not reported**
Staff: UNIDENTIFIED
Facility Suite: Not reported

H67 **OCCUPANT** **WIP** **S107257164**
NNW **15470 E ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.126 mi.
665 ft. **Site 8 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.0270
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: Not reported

H68 **ACELCO** **RCRA-SQG** **1000596283**
NNW **15470 ARROW HWY** **FINDS** **CAD983602483**
1/8-1/4 **BALDWIN PARK, CA 91706** **ECHO**
0.126 mi.
665 ft. **Site 9 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

RCRA-SQG:
Date form received by agency: 08/20/1991
Facility name: ACELCO
Facility address: 15470 ARROW HWY
BALDWIN PARK, CA 91706
EPA ID: CAD983602483
Mailing address: ARROW HWY
BALDWIN PARK, CA 91706
Contact: DON BILLINGS
Contact address: 15470 ARROW HWY
BALDWIN PARK, CA 91706
Contact country: US
Contact telephone: (818) 856-1581
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous

ACELCO (Continued) **1000596283**

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: RUDY THOMPSON
Owner/operator address: 15480 ARROW HWY STE 208
BALDWIN PARK, CA 91706
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002858596

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000596283
Registry ID: 110002858596
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002858596

H69 **WARSAW ENGINEERING, INC.** **WIP** **S106766944**
NNW **15468 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.127 mi.
668 ft. **Site 10 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1106
File Status: Historical
Staff: TB
Facility Suite: Not reported

H70 **OCCUPANT** **WIP** **S107257163**
NNW **15468 E ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.127 mi.
668 ft. **Site 11 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.0269
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

H71 **STUART'S TOOL SERVICE CNTR.** **WIP** **S106766943**
NNW **15464 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.128 mi.
675 ft. **Site 12 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1105
File Status: Historical
Staff: TB
Facility Suite: Not reported

H72 **ZOLA JOHN C LABORATORIES** **RCRA-SQG** **1000142747**
NNW **15460 ARROW HWY** **FINDS** **CAD980881049**
1/8-1/4 **BALDWIN PARK, CA 91706** **ECHO**
0.129 mi.
683 ft. **Site 13 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: ZOLA JOHN C LABORATORIES
Facility address: 15460 ARROW HWY
BALDWIN PARK, CA 91706
EPA ID: CAD980881049
Mailing address: ARROW HWY
BALDWIN PARK, CA 91706
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US

ZOLA JOHN C LABORATORIES (Continued) **1000142747**

Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: KATHLEEN L ZOLA
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002672867

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

ZOLA JOHN C LABORATORIES (Continued) **1000142747**

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000142747
Registry ID: 110002672867
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002672867

H73 **THE 3 AMINGOS TIRE SHOP** **WIP** **S106766376**
NNW **15460 E ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.129 mi.
683 ft. **Site 14 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.0266
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

I74 **ARROW PIPE & SUPPLY** **SWEEPS UST** **S105036321**
North **15563 ARROW HWY** **HIST UST** **N/A**
1/8-1/4 **IRWINDALE, CA 91706** **LOS ANGELES CO. HMS**
0.136 mi.
720 ft. **Site 1 of 2 in cluster I**

Relative:
Higher

Actual:
461 ft.

SWEEPS UST:
Status: Active
Comp Number: 11457
Number: 9
Board Of Equalization: Not reported
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
File Number: 00026540
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026540.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported

ARROW PIPE & SUPPLY (Continued) **S105036321**

Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	Not reported
Facility Id:	011420-011457
Facility Type:	Not reported
Facility Status:	Removed
Area:	3S
Permit Number:	Not reported
Permit Status:	Not reported

H75 **JASCO WOOD PRODUCTS** **SLIC S106484685**
NNW **15519 ARROW HWY.** **EMI N/A**
1/8-1/4 **IRWINDALE, CA 91706** **WIP**
0.137 mi.
721 ft. **Site 15 of 26 in cluster H**

Relative:
Higher

Actual:
459 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	10/29/2014
Global Id:	SL603798879
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.107067
Longitude:	-117.941999
Case Type:	Cleanup Program Site
Case Worker:	GJH
Local Agency:	Not reported
RB Case Number:	108.0325
File Location:	Not reported
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

EMI:

Year:	1990
County Code:	19

JASCO WOOD PRODUCTS (Continued) **S106484685**

Air Basin:	SC
Facility ID:	59317
Air District Name:	SC
SIC Code:	2491
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1993
County Code:	19
Air Basin:	SC
Facility ID:	59317
Air District Name:	SC
SIC Code:	2491
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1993
County Code:	19
Air Basin:	SC
Facility ID:	81663
Air District Name:	SC
SIC Code:	2599
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	59317
Air District Name:	SC
SIC Code:	2491
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

JASCO WOOD PRODUCTS (Continued) **S106484685**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	81663
Air District Name:	SC
SIC Code:	2599
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

WIP:

Region:	4
File Number:	108.0325
File Status:	**Backlog**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

H76 **KENT'S BODY WKS, KENT PIELEMEI** **EMI** **S106833789**
NNW **15444 E ARROW HWY** **WIP** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91702**
0.137 mi.
721 ft. **Site 16 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	35281
Air District Name:	SC
SIC Code:	7531
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

KENT'S BODY WKS, KENT PIELEMEI (Continued) **S106833789**

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	35281
Air District Name:	SC
SIC Code:	7532
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

WIP:

Region:	4
File Number:	108.1103
File Status:	**Historical**
Staff:	DKOO
Facility Suite:	Not reported

H77 **KENTS BODY WORKS** **RCRA-SQG** **1000420583**
NNW **15444 ARROW HWY** **FINDS** **CAD982017279**
1/8-1/4 **BALDWIN PARK, CA 91706** **ECHO**
0.137 mi.
721 ft. **Site 17 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

RCRA-SQG:

Date form received by agency:	07/28/1987
Facility name:	KENTS BODY WORKS
Facility address:	15444 ARROW HWY BALDWIN PARK, CA 91706
EPA ID:	CAD982017279
Contact:	ENVIRONMENTAL MANAGER
Contact address:	15444 ARROW HWY BALDWIN PARK, CA 91760
Contact country:	US
Contact telephone:	(818) 338-4889
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private

KENTS BODY WORKS (Continued) **1000420583**

Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: KENT PIELEMEIER
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110006476410

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000420583
Registry ID: 110006476410
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110006476410

H78 **DIA-CHROME INC.** **WIP** **S106766413**
NNW **15509 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.137 mi.
723 ft. **Site 18 of 26 in cluster H**

Relative:
Higher

Actual:
459 ft.

WIP:
Region: 4
File Number: 108.0323
File Status: Historical
Staff: TB
Facility Suite: Not reported

H79 **HARRY HILL VOLKSWAGEN, INC.** **WIP** **S106767372**
NNW **15507 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.137 mi.
724 ft. **Site 19 of 26 in cluster H**

Relative:
Higher

Actual:
459 ft.

WIP:
Region: 4
File Number: 108.7171
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

H80 **HARRY HILL IMPORTS** **RCRA-SQG** **1000372329**
NNW **15507 ARROW HWY** **FINDS** **CAD981165905**
1/8-1/4 **IRWINDALE, CA 91706** **ECHO**
0.137 mi.
724 ft. **Site 20 of 26 in cluster H**

Relative:
Higher

Actual:
459 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: HARRY HILL IMPORTS
Facility address: 15507 ARROW HWY
IRWINDALE, CA 91706
EPA ID: CAD981165905
Mailing address: ARROW HWY
IRWINDALE, CA 91706
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: BERNIE BIANCO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999

HARRY HILL IMPORTS (Continued) **1000372329**

Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002680108

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000372329
Registry ID: 110002680108
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002680108

G81 **PHILIPS/LAU INDUSTRIES** **SWEEPS UST** **S104537864**
NNE **15601 ARROW HWY** **HIST UST** **N/A**
1/8-1/4 **IRWINDALE, CA 91706** **EMI**
0.138 mi. **LOS ANGELES CO. HMS**
729 ft. **Site 11 of 12 in cluster G**

Relative:
Higher

Actual:
464 ft.

SWEEPS UST:

Status:	Active
Comp Number:	3611
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

HIST UST:

File Number:	00027D29
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027D29.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	15662
Air District Name:	SC
SIC Code:	3444
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

PHILIPS/LAU INDUSTRIES (Continued) **S104537864**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	Not reported
Facility Id:	003491-003611
Facility Type:	Not reported
Facility Status:	Removed
Area:	3S
Permit Number:	Not reported
Permit Status:	Not reported

Region:	LA
Permit Category:	I
Facility Id:	003491-I03611
Facility Type:	09
Facility Status:	Closed
Area:	3S
Permit Number:	000008052
Permit Status:	Closed

J82 **UNITED RENTALS INC #551** **HIST UST** **S113106804**
NW **15402 ARROW HIGHWAY** **HAZNET** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.139 mi.
732 ft. **Site 1 of 8 in cluster J**

Relative:
Higher

Actual:
456 ft.

HIST UST:

File Number:	00026537
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026537.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported

Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

UNITED RENTALS INC #551 (Continued) **S113106804**

Click here for Geo Tracker PDF:

HAZNET:

envid:	S113106804
Year:	2010
GEPAID:	CAL000209680
Contact:	GRANT ZOLDOWSKI PE CHMM
Telephone:	3032864394
Mailing Name:	Not reported
Mailing Address:	791 E 64TH AVE
Mailing City,St,Zip:	DENVER, CO 802290000
Gen County:	Not reported
TSD EPA ID:	NVT330010000
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.125
Cat Decode:	Other organic solids
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Los Angeles

envid:	S113106804
Year:	2010
GEPAID:	CAL000209680
Contact:	GRANT ZOLDOWSKI PE CHMM
Telephone:	3032864394
Mailing Name:	Not reported
Mailing Address:	791 E 64TH AVE
Mailing City,St,Zip:	DENVER, CO 802290000
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Other inorganic solid waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.005
Cat Decode:	Other inorganic solid waste
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	S113106804
Year:	2010
GEPAID:	CAL000209680
Contact:	GRANT ZOLDOWSKI PE CHMM
Telephone:	3032864394
Mailing Name:	Not reported
Mailing Address:	791 E 64TH AVE
Mailing City,St,Zip:	DENVER, CO 802290000
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Oil/water separation sludge
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect

UNITED RENTALS INC #551 (Continued) **S113106804**

Tons:	14.595
Cat Decode:	Oil/water separation sludge
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Los Angeles
envid:	S113106804
Year:	2010
GEPAID:	CAL000209680
Contact:	GRANT ZOLDOWSKI PE CHMM
Telephone:	3032864394
Mailing Name:	Not reported
Mailing Address:	791 E 64TH AVE
Mailing City,St,Zip:	DENVER, CO 802290000
Gen County:	Not reported
TSD EPA ID:	TXD077603371
TSD County:	Not reported
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.1
Cat Decode:	Off-specification, aged or surplus organics
Method Decode:	Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Los Angeles
envid:	S113106804
Year:	2010
GEPAID:	CAL000209680
Contact:	GRANT ZOLDOWSKI PE CHMM
Telephone:	3032864394
Mailing Name:	Not reported
Mailing Address:	791 E 64TH AVE
Mailing City,St,Zip:	DENVER, CO 802290000
Gen County:	Not reported
TSD EPA ID:	NVT330010000
TSD County:	Not reported
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.05
Cat Decode:	Not reported
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
16 additional CA_HAZNET: record(s) in the EDR Site Report.

J83 **U.S. RENTALS** **LUST** **S101295582**
NW **15402 ARROW HWY E** **HIST CORTESE** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.139 mi.
732 ft. **Site 2 of 8 in cluster J**

Relative:
Higher

Actual:
456 ft.

LUST:

Region:	STATE
Global Id:	T0603792260
Latitude:	34.106972
Longitude:	-117.944714

U.S. RENTALS (Continued) **S101295582**

Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	07/16/2009
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	AJL
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-11270A
LOC Case Number:	011251-011270
File Location:	Regional Board
Potential Media Affect:	Under Investigation
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603792260
Contact Type:	Local Agency Caseworker
Contact Name:	SAM STEVENS
Organization Name:	LOS ANGELES COUNTY
Address:	900 S. FREMONT AVE.
City:	ALHAMBRA
Email:	Not reported
Phone Number:	6264583507

Global Id:	T0603792260
Contact Type:	Regional Board Caseworker
Contact Name:	AHMAD J. LAMAA
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 West 4th Street Suite 200
City:	Los Angeles
Email:	alamaa@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603792260
Status:	Open - Case Begin Date
Status Date:	08/04/2002

Global Id:	T0603792260
Status:	Open - Referred
Status Date:	04/23/2009

Global Id:	T0603792260
Status:	Open - Site Assessment
Status Date:	06/15/2005

Global Id:	T0603792260
Status:	Open - Site Assessment
Status Date:	07/16/2009

Regulatory Activities:

Global Id:	T0603792260
Action Type:	RESPONSE
Date:	07/23/2016
Action:	Other Report / Document

U.S. RENTALS (Continued) **S101295582**

Global Id: T0603792260
Action Type: ENFORCEMENT
Date: 05/23/2016
Action: Health and Safety Code Section 25296.10(c)

Global Id: T0603792260
Action Type: ENFORCEMENT
Date: 07/16/2009
Action: Staff Letter

Global Id: T0603792260
Action Type: RESPONSE
Date: 10/18/2005
Action: Site Assessment Report

Global Id: T0603792260
Action Type: RESPONSE
Date: 08/17/2009
Action: Other Report / Document

Global Id: T0603792260
Action Type: ENFORCEMENT
Date: 04/27/2009
Action: Referral to Regional Board - #c607469

Global Id: T0603792260
Action Type: Other
Date: 08/04/2002
Action: Leak Discovery

Global Id: T0603792260
Action Type: Other
Date: 12/09/2002
Action: Leak Reported

Global Id: T0603792260
Action Type: RESPONSE
Date: 04/30/2009
Action: Correspondence

Region: STATE
Global Id: T0603703774
Latitude: 34.106505
Longitude: -117.944682
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/08/1996
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: YR
Local Agency: LOS ANGELES COUNTY
RB Case Number: I-11270
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

U.S. RENTALS (Continued) **S101295582**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603703774
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603703774
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603703774
Status:	Completed - Case Closed
Status Date:	07/08/1996

Global Id:	T0603703774
Status:	Open - Case Begin Date
Status Date:	10/01/1987

Global Id:	T0603703774
Status:	Open - Site Assessment
Status Date:	04/01/1996

Regulatory Activities:

Global Id:	T0603703774
Action Type:	Other
Date:	10/01/1988
Action:	Leak Stopped

Global Id:	T0603703774
Action Type:	Other
Date:	10/01/1987
Action:	Leak Discovery

Global Id:	T0603703774
Action Type:	Other
Date:	09/08/1988
Action:	Leak Reported

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles

U.S. RENTALS (Continued) **S101295582**

Facility Id:	I-11270	
Status:	Case Closed	
Substance:	Diesel	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Excavate and Treat
Global ID:	T0603703774	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	Not reported	
Enforcement Type:	Not reported	
Date Leak Discovered:	10/1/1987	
Date Leak First Reported:		9/8/1988
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	10/1/1988	
Date Case Last Changed on Database:		7/8/1996
Date the Case was Closed:		7/8/1996
How Leak Discovered:	Tank Test	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	Tank	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		446.41022233131881451194000623
Source of Cleanup Funding:		Tank
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		4/1/1996
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	BLANK RP	
RP Address:	417 W. ALLEN AVE, SUITE 110, SAN DIMAS CA 91773	
Program:	LUST	
Lat/Long:	34.1069593 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	Not reported	

U.S. RENTALS (Continued) **S101295582**

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-11270

J84 **U S RENTALS** **LOS ANGELES CO. HMS** **S102063207**
NW **15402 E ARROW HWY** **WIP** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.139 mi.
732 ft. **Site 3 of 8 in cluster J**

Relative:
Higher

Actual:
456 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 011251-011270
Facility Type: 0
Facility Status: Removed
Area: 3X
Permit Number: 00002803T
Permit Status: Removed

WIP:
Region: 4
File Number: 108.1095
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

J85 **ARROW EQUIP RENTAL** **SWEEPS UST** **S101618733**
NW **15402 ARROW HWY** **CA FID UST** **N/A**
1/8-1/4 **BALDWIN PARK, CA**
0.139 mi.
732 ft. **Site 4 of 8 in cluster J**

Relative:
Higher

Actual:
456 ft.

SWEEPS UST:
Status: Active
Comp Number: 11270
Number: 9
Board Of Equalization: 44-009207
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011270-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 3

Status: Active
Comp Number: 11270

ARROW EQUIP RENTAL (Continued) **S101618733**

Number: 9
Board Of Equalization: 44-009207
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011270-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11270
Number: 9
Board Of Equalization: 44-009207
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011270-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 19001861
Regulated By: UTNKA
Regulated ID: 00004886
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8180000000
Mail To: Not reported
Mailing Address: 15402 ARROW HWY
Mailing Address 2: Not reported
Mailing City,St,Zip: BALDWIN PARK
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

J86
NW
1/8-1/4
0.139 mi.
732 ft.

US RENTALS INC
15402 ARROW HWY
BALDWIN PARK, CA 91706

Site 5 of 8 in cluster J

UST **U004049014**
N/A

Relative:
Higher

Actual:
456 ft.

UST:
Facility ID: 11270
Permitting Agency: LOS ANGELES COUNTY
Latitude: 34.107854
Longitude: -117.943333

J87
NW
1/8-1/4
0.139 mi.
732 ft.

U S RENTALS 51
15402 E ARROW HWY
BALDWIN PARK, CA 91706

Site 6 of 8 in cluster J

RCRA NonGen / NLR **1000595546**
FINDS **CAD983594961**
ECHO

Relative:
Higher

Actual:
456 ft.

RCRA NonGen / NLR:
Date form received by agency: 04/10/2000
Facility name: U S RENTALS 51
Facility address: 15402 E ARROW HWY
BALDWIN PARK, CA 91706
EPA ID: CAD983594961
Contact: DAN SWEENEY
Contact address: 1153 BERGEN PKWY STE M237
EVERGREEN, CO 80439
Contact country: US
Contact telephone: (303) 674-1320
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: JOHN HODGMAN
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No

U S RENTALS 51 (Continued) **1000595546**

Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002852878

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

Envid:	1000595546
Registry ID:	110002852878
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002852878

H88 **TOMCO PRODUCTS** **WIP** **S106766941**
NW **15438 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.140 mi.
737 ft. **Site 21 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

WIP:

Region:	4
File Number:	108.1101
File Status:	**Historical**
Staff:	DKOO
Facility Suite:	Not reported

H89 **TOMCO** **WIP** **S106766373**
NW **15438 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.140 mi.
737 ft. **Site 22 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

WIP:

Region:	4
File Number:	108.0261
File Status:	**Historical**

TOMCO (Continued) **S106766373**

Staff: DRASMUSS
Facility Suite: Not reported

J90 **CHAPMAN APPLIANCE WAREHOUSE** **WIP** **S106766938**
NW **15406 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.141 mi.
744 ft. **Site 7 of 8 in cluster J**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1096
File Status: Historical
Staff: TB
Facility Suite: Not reported

H91 **KNUDTSON REFINISHING** **FINDS** **1005775601**
NW **15434 ARROW HWY** **EMI** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706** **WIP**
0.142 mi.
748 ft. **Site 23 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

FINDS:

Registry ID: 110002422879

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2511
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

KNUDTSON REFINISHING (Continued) **1005775601**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1993
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

KNUDTSON REFINISHING (Continued) **1005775601**

Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0
Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0
Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0
Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0
Year:	2000
County Code:	19
Air Basin:	SC

KNUDTSON REFINISHING (Continued) **1005775601**

Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2002
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported

KNUDTSON REFINISHING (Continued) **1005775601**

Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2004
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.2452
Reactive Organic Gases Tons/Yr:	1.24
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2005
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.3624
Reactive Organic Gases Tons/Yr:	.35951778
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2006
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.7391197489624455916
Reactive Organic Gases Tons/Yr:	.734
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0

KNUDTSON REFINISHING (Continued) **1005775601**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Year:	2007
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.7391197489624455916
Reactive Organic Gases Tons/Yr:	.734
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2008
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	1751
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.2326696164081250904
Reactive Organic Gases Tons/Yr:	.23
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2012
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.35538751957
Reactive Organic Gases Tons/Yr:	0.22995
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

WIP:

Region:	4
File Number:	108.1100
File Status:	**Historical**

KNUDTSON REFINISHING (Continued) **1005775601**

Staff: DKOO
Facility Suite: Not reported

H92 **OCCUPANT** **WIP** **S106766374**
NW **15434 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.142 mi.
748 ft. **Site 24 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.0263
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

H93 **J. D. PRECISION** **WIP** **S106766940**
NW **15430 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.144 mi.
758 ft. **Site 25 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1098
File Status: Historical
Staff: PAR
Facility Suite: Not reported

G94 **PATTON SALES CORPORATION** **NPDES** **U001568721**
North **15563 EAST ARROW HIGHWAY** **WIP** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.145 mi.
764 ft. **Site 12 of 12 in cluster G**

Relative:
Higher

Actual:
463 ft.

NPDES:

Npdes Number:	Not reported
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	458967
Order No:	Not reported
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19NEC000187
Program Type:	No Exposure Certification
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/28/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Patton Sales Corporation
Discharge Address:	15563 East Arrow Highway
Discharge City:	Irwindale
Discharge State:	California
Discharge Zip:	91702

PATTON SALES CORPORATION (Continued) **U001568721**

RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

PATTON SALES CORPORATION (Continued) **U001568721**

WIP:
Region: 4
File Number: 108.0338
File Status: Historical
Staff: UNIDENTIFIED
Facility Suite: Not reported

H95 **P & M AUTOMOTIVE** **WIP** **S106766939**
NW **15428 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.145 mi.
765 ft. **Site 26 of 26 in cluster H**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1097
File Status: Historical
Staff: WLIU
Facility Suite: Not reported

K96 **CARBIDE DIE & MGF. CO. INC.** **WIP** **S106766422**
NNE **15615 E ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.151 mi.
797 ft. **Site 1 of 4 in cluster K**

Relative:
Higher

Actual:
465 ft.

WIP:
Region: 4
File Number: 108.0340
File Status: Historical
Staff: DRASMUSS
Facility Suite: Not reported

K97 **XTREME AUTO COLLISION** **HAZNET** **S106766424**
NNE **15629 ARROW HWY** **WIP** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.156 mi.
823 ft. **Site 2 of 4 in cluster K**

Relative:
Higher

Actual:
466 ft.

HAZNET:
envid: S106766424
Year: 2013
GEPAID: CAC002738414
Contact: VICTOR SANCHEZ
Telephone: 6263378804
Mailing Name: Not reported
Mailing Address: 15629 ARROW HWY
Mailing City,St,Zip: IRWINDALE, CA 91706
Gen County: Los Angeles
TSD EPA ID: CAD008252405
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.0468

XTREME AUTO COLLISION (Continued) **S106766424**

Cat Decode: Not reported
Method Decode: Fuel Blending Prior To Energy Recovery At Another Site
Facility County: Not reported

WIP:
Region: 4
File Number: 108.0342
File Status: Historical
Staff: UNIDENTIFIED
Facility Suite: Not reported

I98 **CHASE TIRE SERVICE** **LOS ANGELES CO. HMS** **S102063251**
North **15545 E ARROW HWY** **WIP** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.158 mi.
835 ft. **Site 2 of 2 in cluster I**

Relative: Higher

Actual: 462 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 014886-015683
Facility Type: Not reported
Facility Status: Removed
Area: 3S
Permit Number: Not reported
Permit Status: Not reported

WIP:
Region: 4
File Number: 108.0328
File Status: Historical
Staff: DRASMUSS
Facility Suite: Not reported

---

99 **HUY FONG FOODS INC** **NPDES** **S106766475**
South **4800 AZUSA CANYON ROAD** **WIP** **N/A**
1/8-1/4 **LOS ANGELES, CA 91706**
0.181 mi.
955 ft.

Relative: Lower

Actual: 438 ft.

NPDES:
Npdes Number: Not reported
Facility Status: Active
Agency Id: 0
Region: 4
Regulatory Measure Id: 456932
Order No: Not reported
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 4 19NEC000215
Program Type: No Exposure Certification
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 07/31/2015
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported

HUY FONG FOODS INC (Continued) **S106766475**

Discharge Name:	HUY FONG FOODS INC
Discharge Address:	4800 AZUSA CANYON ROAD
Discharge City:	IRWINDALE
Discharge State:	California
Discharge Zip:	91706
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported

HUY FONG FOODS INC (Continued) **S106766475**

CERTIFICATION DATE: Not reported
PRIMARY SIC: Not reported
SECONDARY SIC: Not reported
TERTIARY SIC: Not reported

WIP:
Region: 4
File Number: 108.0446
File Status: Historical
Staff: UNIDENTIFIED
Facility Suite: Not reported

L100 **GLENDORA TREE SURGERY, INC.** **WIP** **S106767108**
West **5040 LANTE ST** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.184 mi.
972 ft. **Site 1 of 5 in cluster L**

Relative:
Lower

Actual:
448 ft.

WIP:
Region: 4
File Number: 108.1357
File Status: Historical
Staff: UNIDENTIFIED
Facility Suite: Not reported

L101 **NATIONAL COOLER CORP.,** **WIP** **S106767107**
West **5018 LANTE ST** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.184 mi.
972 ft. **Site 2 of 5 in cluster L**

Relative:
Lower

Actual:
447 ft.

WIP:
Region: 4
File Number: 108.1356
File Status: Historical
Staff: UNIDENTIFIED
Facility Suite: Not reported

L102 **SORENSEN BACKHOE** **WIP** **S106767110**
West **5052 LANTE ST** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.184 mi.
973 ft. **Site 3 of 5 in cluster L**

Relative:
Higher

Actual:
449 ft.

WIP:
Region: 4
File Number: 108.1359
File Status: Historical
Staff: UNIDENTIFIED
Facility Suite: Not reported

K103 **ATASCADERO YARD** **HIST CORTESE** **S105024235**
NNE **15627 ARROW** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.185 mi.
978 ft. **Site 3 of 4 in cluster K**

Relative: HIST CORTESE:
Higher Region: CORTESE
Facility County Code: 19
Actual: Reg By: LTNKA
467 ft. Reg Id: 2399

K104 **CNI MFG** **WIP** **S106766423**
NNE **15627 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.185 mi.
978 ft. **Site 4 of 4 in cluster K**

Relative: WIP:
Higher Region: 4
File Number: 108.0341
Actual: **File Status:** **Historical**
467 ft. Staff: PAR
Facility Suite: Not reported

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105 **J & B CEMENT CONTRACTOR** **WIP** **S106767106**
WSW **4938 LANTE ST** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.187 mi.
986 ft.

Relative: WIP:
Lower Region: 4
File Number: 108.1353
Actual: **File Status:** **Not reported**
442 ft. Staff: UNIDENTIFIED
Facility Suite: Not reported

J106 **GENCO REBUILT PRODUCTS** **WIP** **S106766936**
NW **15320 E ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.187 mi.
988 ft. **Site 8 of 8 in cluster J**

Relative: WIP:
Higher Region: 4
File Number: 108.1094
Actual: **File Status:** **Historical**
457 ft. Staff: DKOO
Facility Suite: Not reported

M107 **SEE I-5308** **SWEEPS UST** **S106932016**
NE **15700 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA**
0.187 mi.
989 ft. **Site 1 of 7 in cluster M**

Relative:
Higher

Actual:
464 ft.

SWEEPS UST:

Status:	Active
Comp Number:	12939
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

M108 **UNIVERSAL MACHINES** **WIP** **S106766387**
NE **5220 N FOURTH ST** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.192 mi.
1014 ft. **Site 2 of 7 in cluster M**

Relative:
Higher

Actual:
465 ft.

WIP:

Region:	4
File Number:	108.0287
File Status:	**Historical**
Staff:	DKOO
Facility Suite:	Not reported

N109 **MC CARON STEEL FABRICATION INC** **LOS ANGELES CO. HMS** **S106669265**
WNW **5140 N LANTE ST** **WIP** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.198 mi.
1046 ft. **Site 1 of 5 in cluster N**

Relative:
Higher

Actual:
452 ft.

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T
Facility Id:	026689-036809
Facility Type:	0
Facility Status:	Removed
Area:	3X
Permit Number:	000327808
Permit Status:	Removed

WIP:

Region:	4
File Number:	108.1363
File Status:	**Historical**
Staff:	DKOO

MC CARON STEEL FABRICATION INC (Continued) **S106669265**

Facility Suite: Not reported

M110 **FOREST CITY DILLON - TECON PAC** **HIST UST** **U001568753**
NE **15703 E ARROW HIGHWAY (REAR)** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.200 mi.
1056 ft. **Site 3 of 7 in cluster M**

Relative:
Higher

Actual:
465 ft.

HIST UST:

File Number:	00026826
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026826.pdf
Region:	STATE
Facility ID:	00000050566
Facility Type:	Other
Other Type:	CONCRETE PRODUCTION
Contact Name:	FRANKLIN LORE
Telephone:	8189627034
Owner Name:	FOREST CITY DILLON - TECON PAC
Owner Address:	15703 E. ARROW HWY. (REAR)
Owner City,St,Zip:	IRWINDALE, CA 91706
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	3
Year Installed:	1979
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	8
Leak Detection:	Visual
Tank Num:	003
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00000800
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	004
Container Num:	4
Year Installed:	1979
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	6
Leak Detection:	Visual

FOREST CITY DILLON - TECON PAC (Continued) **U001568753**

Click here for Geo Tracker PDF:

M111 **FEDERAL DEPOSIT INSURANCE CORP** **WIP** **S106766320**
NE **15703 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.200 mi.
1056 ft. **Site 4 of 7 in cluster M**

Relative:
Higher

Actual:
465 ft.

WIP:
Region: 4
File Number: 108.0151
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

Region: 4
File Number: 108.0152
File Status: Historical
Staff: DRASMUSS
Facility Suite: Not reported

M112 **FORESTCITY DILLON-TECON PACIF** **SWEEPS UST** **S105035490**
NE **15703 ARROW HWY** **LOS ANGELES CO. HMS** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.200 mi.
1056 ft. **Site 5 of 7 in cluster M**

Relative:
Higher

Actual:
465 ft.

SWEEPS UST:
Status: Active
Comp Number: 5308
Number: 9
Board Of Equalization: Not reported
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 000324-005308
Facility Type: 0
Facility Status: Removed
Area: 3S
Permit Number: 00000175T
Permit Status: Removed

Region: LA

FOREST CITY DILLON-TECON PACIF (Continued) **S105035490**

Permit Category: Not reported
Facility Id: 000324-I05308
Facility Type: Not reported
Facility Status: OPEN
Area: 3S
Permit Number: Not reported
Permit Status: Not reported

113
North
1/8-1/4
0.200 mi.
1057 ft.

VALLEY ABRASIVE SHOT INC. **WIP** **S106766414**
15533 ARROW HWY **N/A**
IRWINDALE, CA 91706

Relative:
Higher

Actual:
465 ft.

WIP:
Region: 4
File Number: 108.0327
File Status: Historical
Staff: UNIDENTIFIED
Facility Suite: Not reported

O114
NW
1/8-1/4
0.207 mi.
1091 ft.

HENRI'S SALES & AUTO PARTS **WIP** **S106766935**
15312 ARROW HWY **N/A**
BALDWIN PARK, CA 91706

Site 1 of 2 in cluster O

Relative:
Higher

Actual:
456 ft.

WIP:
Region: 4
File Number: 108.1093
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

M115
NE
1/8-1/4
0.208 mi.
1098 ft.

BENLO COMPANY **WIP** **S106766425**
15633 ARROW HWY **N/A**
IRWINDALE, CA 91706

Site 6 of 7 in cluster M

Relative:
Higher

Actual:
468 ft.

WIP:
Region: 4
File Number: 108.0343
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

N116
WNW
1/8-1/4
0.209 mi.
1104 ft.

CUSTOM WOODWORKS — **WIP** — **S106767111** / **N/A**
5103 LANTE ST
BALDWIN PARK, CA 91706
Site 2 of 5 in cluster N

Relative:
Higher

Actual:
449 ft.

WIP:
Region: 4
File Number: 108.1360
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

L117
West
1/8-1/4
0.209 mi.
1104 ft.

RAINBOW ELECTRIC — **WIP** — **S106767109** / **N/A**
5049 LANTE ST
BALDWIN PARK, CA 91706
Site 4 of 5 in cluster L

Relative:
Lower

Actual:
448 ft.

WIP:
Region: 4
File Number: 108.1358
File Status: Historical
Staff: UNIDENTIFIED
Facility Suite: Not reported

L118
West
1/8-1/4
0.209 mi.
1105 ft.

MARGETT BROS, INC. — **WIP** — **S106766401** / **N/A**
5057 LANTE ST
BALDWIN PARK, CA 91706
Site 5 of 5 in cluster L

Relative:
Higher

Actual:
449 ft.

WIP:
Region: 4
File Number: 108.0307
File Status: Historical
Staff: RSK
Facility Suite: Not reported

P119
WSW
1/8-1/4
0.210 mi.
1108 ft.

QUALITY ENGINE CENTER — **WIP** — **S106767154** / **N/A**
15253 NUBIA ST
BALDWIN PARK, CA 91706
Site 1 of 4 in cluster P

Relative:
Lower

Actual:
445 ft.

WIP:
Region: 4
File Number: 108.1428
File Status: Historical
Staff: TB
Facility Suite: Not reported

P120
WSW
1/8-1/4
0.212 mi.
1120 ft.

GEX INTERNATIONAL CORP.,
15247 NUBIA ST
BALDWIN PARK, CA 91706

Site 2 of 4 in cluster P

WIP **S106767153**
N/A

Relative:
Lower

Actual:
445 ft.

WIP:

Region:	4
File Number:	108.1427
File Status:	**Historical**
Staff:	DKOO
Facility Suite:	Not reported

P121
West
1/8-1/4
0.213 mi.
1124 ft.

GEX INTERNATIONAL CORP
15245 NUBIA ST
BALDWIN PARK, CA 91706

Site 3 of 4 in cluster P

RCRA-SQG **1000120177**
CHMIRS **CAD981673882**
FINDS
HAZNET
ECHO

Relative:
Lower

Actual:
445 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	GEX INTERNATIONAL CORP
Facility address:	15245 NUBIA ST BALDWIN PARK, CA 91706
EPA ID:	CAD981673882
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	GEX INT CORP
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

GEX INTERNATIONAL CORP (Continued) **1000120177**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/23/1992
Site name: GEX INTERNATIONAL CORP
Classification: Large Quantity Generator

Date form received by agency: 09/13/1986
Site name: GEX INTERNATIONAL CORP
Classification: Large Quantity Generator

Violation Status: No violations found

CHMIRS:
OES Incident Number: 1-0232
OES notification: 01/11/2001
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported

GEX INTERNATIONAL CORP (Continued) **1000120177**

Facility Telephone:	Not reported
Waterway Involved:	Unknown
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	NRC
Incident Date:	1/11/200112:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Unknown
Site Type:	Merchant/Business
E Date:	Not reported
Substance:	Cleaning SolventMagnesium Chips
Unknown:	Unknown
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Faxed from NRC to OES: the suspected responsible party has been hiding magnesium chips and metal shavings in the center of the parking lot. Caller to NRC also stated there is a building across the street where they are dumping solvents down the drainns in the bathroom. The caller to NRC stated the dumping was ongoing.

FINDS:

Registry ID: 110002745995

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

GEX INTERNATIONAL CORP (Continued) **1000120177**

HAZNET:

envid:	1000120177
Year:	2000
GEPAID:	CAD981673882
Contact:	LARRY DAWSON
Telephone:	6269605348
Mailing Name:	Not reported
Mailing Address:	15245 NUBIA ST
Mailing City,St,Zip:	BALDWIN PARK, CA 917061925
Gen County:	Not reported
TSD EPA ID:	CAD099452708
TSD County:	Not reported
Waste Category:	Oil/water separation sludge
Disposal Method:	Transfer Station
Tons:	3.38
Cat Decode:	Oil/water separation sludge
Method Decode:	Transfer Station
Facility County:	Los Angeles

envid:	1000120177
Year:	2000
GEPAID:	CAD981673882
Contact:	LARRY DAWSON
Telephone:	6269605348
Mailing Name:	Not reported
Mailing Address:	15245 NUBIA ST
Mailing City,St,Zip:	BALDWIN PARK, CA 917061925
Gen County:	Not reported
TSD EPA ID:	CAD089446710
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Transfer Station
Tons:	0.3
Cat Decode:	Other organic solids
Method Decode:	Transfer Station
Facility County:	Los Angeles

envid:	1000120177
Year:	2000
GEPAID:	CAD981673882
Contact:	LARRY DAWSON
Telephone:	6269605348
Mailing Name:	Not reported
Mailing Address:	15245 NUBIA ST
Mailing City,St,Zip:	BALDWIN PARK, CA 917061925
Gen County:	Not reported
TSD EPA ID:	CAT000613893
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Transfer Station
Tons:	0.5
Cat Decode:	Aqueous solution with total organic residues less than 10 percent
Method Decode:	Transfer Station
Facility County:	Los Angeles

envid:	1000120177
Year:	1999

GEX INTERNATIONAL CORP (Continued) **1000120177**

GEPAID:	CAD981673882
Contact:	LARRY N DAWSON
Telephone:	6269605348
Mailing Name:	Not reported
Mailing Address:	15245 NUBIA ST
Mailing City,St,Zip:	BALDWIN PARK, CA 917061925
Gen County:	Not reported
TSD EPA ID:	CAT000613893
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Transfer Station
Tons:	5.1247
Cat Decode:	Aqueous solution with total organic residues less than 10 percent
Method Decode:	Transfer Station
Facility County:	Los Angeles

envid:	1000120177
Year:	1999
GEPAID:	CAD981673882
Contact:	LARRY N DAWSON
Telephone:	6269605348
Mailing Name:	Not reported
Mailing Address:	15245 NUBIA ST
Mailing City,St,Zip:	BALDWIN PARK, CA 917061925
Gen County:	Not reported
TSD EPA ID:	CAD099452708
TSD County:	Not reported
Waste Category:	Oil/water separation sludge
Disposal Method:	Transfer Station
Tons:	5.9255
Cat Decode:	Oil/water separation sludge
Method Decode:	Transfer Station
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
23 additional CA_HAZNET: record(s) in the EDR Site Report.

ECHO:

Envid:	1000120177
Registry ID:	110002745995
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002745995

N122 **ESCO WOODWORKING CO.,** **WIP** **S106767112**
WNW **5125 LANTE ST** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.214 mi.
1132 ft. **Site 3 of 5 in cluster N**

Relative:
Higher

Actual:
452 ft.

WIP:

Region:	4
File Number:	108.1361
File Status:	**Not reported**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

N123
WNW
1/8-1/4
0.217 mi.
1144 ft.

D & J PERFORMANCE
5133 LANTE ST
BALDWIN PARK, CA 91706
Site 4 of 5 in cluster N

Relative:
Higher

Actual:
453 ft.

WIP:
Region: 4
File Number: 108.1698
File Status: Historical
Staff: RSK
Facility Suite: Not reported

WIP **S106767334**
N/A

N124
WNW
1/8-1/4
0.217 mi.
1144 ft.

FRANKS & COMPANY
5133 LANTE ST
BALDWIN PARK, CA 91706
Site 5 of 5 in cluster N

Relative:
Higher

Actual:
453 ft.

WIP:
Region: 4
File Number: 108.1362
File Status: Historical
Staff: RSK
Facility Suite: Not reported

WIP **S106767113**
N/A

125
NNE
1/8-1/4
0.226 mi.
1192 ft.

TOMKINS
15601 ARROW HWY
IRWINDALE, CA 91706

Relative:
Higher

Actual:
470 ft.

WIP:
Region: 4
File Number: 108.0339
File Status: Historical
Staff: UNIDENTIFIED
Facility Suite: Not reported

WIP **U001568794**
N/A

O126
NW
1/8-1/4
0.228 mi.
1205 ft.

E & D STEAM COIL CO.,
15300 ARROW HWY
BALDWIN PARK, CA 91706
Site 2 of 2 in cluster O

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1092
File Status: Historical
Staff: UNIDENTIFIED
Facility Suite: Not reported

WIP **S106766934**
N/A

127
SW
1/8-1/4
0.233 mi.
1228 ft.

POLMARK CONSTRUCTION
4848 LANTE ST
BALDWIN PARK, CA 91706

WIP **S106767105**
N/A

Relative:
Lower

Actual:
437 ft.

WIP:

Region:	4
File Number:	108.1352
File Status:	**Historical**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

P128
West
1/8-1/4
0.233 mi.
1228 ft.

TOOL & DIE MFG, INC.
15237 NUBIA ST
BALDWIN PARK, CA 91706

Site 4 of 4 in cluster P

WIP **S106767152**
N/A

Relative:
Lower

Actual:
445 ft.

WIP:

Region:	4
File Number:	108.1426
File Status:	**Historical**
Staff:	TB
Facility Suite:	Not reported

Q129
NE
1/8-1/4
0.233 mi.
1229 ft.

SHANNON CASKET CO
15744 ARROW HWY
IRWINDALE, CA 91706

SWEEPS UST **1002852011**
EMI **N/A**
LOS ANGELES CO. HMS
WIP

Site 1 of 3 in cluster Q

Relative:
Higher

Actual:
464 ft.

SWEEPS UST:

Status:	Active
Comp Number:	4831
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	21294
Air District Name:	SC
SIC Code:	2434
Air District Name:	SOUTH COAST AQMD

SHANNON CASKET CO (Continued) **1002852011**

Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 14
Reactive Organic Gases Tons/Yr: 13
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 21294
Air District Name: SC
SIC Code: 3995
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 004653-004831
Facility Type: 1
Facility Status: Removed
Area: 3S
Permit Number: 000109626
Permit Status: Removed

Region: LA
Permit Category: Not reported
Facility Id: 004653-020812
Facility Type: Not reported
Facility Status: OPEN
Area: 3S
Permit Number: Not reported
Permit Status: Not reported

Region: LA
Permit Category: I
Facility Id: 004653-I04831
Facility Type: 01
Facility Status: Closed
Area: 3S
Permit Number: 000003393
Permit Status: Closed

WIP:

SHANNON CASKET CO (Continued) **1002852011**

Region: 4
File Number: 108.0357
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

Q130 **SHANNON CASKET CO** **LUST** **S105032679**
NE **15744 ARROW HWY E** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.233 mi.
1229 ft. **Site 2 of 3 in cluster Q**

Relative: Higher

Actual: 464 ft.

LUST:

Region:	STATE
Global Id:	T0603704656
Latitude:	34.1069223
Longitude:	-117.937976
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/19/1996
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-04831
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Aviation
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603704656
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603704656
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603704656
Status:	Completed - Case Closed
Status Date:	08/19/1996

Global Id:	T0603704656
Status:	Open - Case Begin Date

SHANNON CASKET CO (Continued) **S105032679**

Status Date: 10/03/1994

Regulatory Activities:
Global Id: T0603704656
Action Type: Other
Date: 10/03/1994
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-04831
Status: Case Closed
Substance: 1
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603704656
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: Not reported
Enforcement Type: Not reported
Date Leak Discovered: Not reported
Date Leak First Reported: 10/3/1994
Date Leak Record Entered: 8/23/1996
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 10/3/1994
Date the Case was Closed: 8/19/1996
How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: Not reported
Leak Source: Not reported
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 2218.16694400040602940707804 62
Source of Cleanup Funding: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported

SHANNON CASKET CO (Continued) **S105032679**

Owner Contact:	Not reported
Responsible Party:	SHANNON CASKET
RP Address:	5657 WASHINGTON BL E., LOS ANGELES CA 90040
Program:	LUST
Lat/Long:	34.1069223 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

Q131 **NONE** **HIST UST** **U001568808**
NE **15744 ARROW HIGHWAY** **HIST CORTESE** **N/A**
1/8-1/4 **IRWINDALE, CA 91706** **WIP**
0.233 mi.
1229 ft. **Site 3 of 3 in cluster Q**

Relative:
Higher

Actual:
464 ft.

HIST UST:

File Number:	000262ED
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000262ED.pdf
Region:	STATE
Facility ID:	00000003833
Facility Type:	Other
Other Type:	MFG. OF CASKET SHELL
Contact Name:	DAVID SHANNON
Telephone:	8183371288
Owner Name:	E. M. SHANNON
Owner Address:	15744 ARROW HIGHWAY
Owner City,St,Zip:	IRWINDALE, CA 91706
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	1969
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1969
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA

NONE (Continued) **U001568808**

Reg Id: R-04831

WIP:
Region: 4
File Number: 108.0358
File Status: Historical
Staff: PAR
Facility Suite: Not reported

M132 **AMERICAN SPEEDY PRINTING CNTR** **WIP** **S100854796**
NE **15705 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.241 mi.
1273 ft. **Site 7 of 7 in cluster M**

Relative: Higher

Actual: 467 ft.

WIP:
Region: 4
File Number: 108.0350
File Status: Historical
Staff: DKOO
Facility Suite: 7

---

133 **IRWINDALE SHOP** **LUST** **U001568768**
South **4702 AZUSA CANYON RD** **SWEEPS UST** **N/A**
1/4-1/2 **IRWINDALE, CA 91706** **HIST UST**
0.273 mi. **WDS**
1444 ft. **WIP**

Relative: Lower

Actual: 433 ft.

LUST:
Region: STATE
Global Id: T0603762683
Latitude: 34.098438
Longitude: -117.942934
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 05/15/2008
Lead Agency: LOS ANGELES COUNTY
Case Worker: RVI
Local Agency: LOS ANGELES COUNTY
RB Case Number: Not reported
LOC Case Number: 004917
File Location: Not reported
Potential Media Affect: Under Investigation
Potential Contaminants of Concern: Gasoline, Diesel, Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603762683
Contact Type: Local Agency Caseworker
Contact Name: MANUEL R REGALADO
Organization Name: LOS ANGELES COUNTY
Address: 900 S. FREMONT AVE.
City: ALHAMBRA
Email: mregalad@dpw.lacounty.gov

IRWINDALE SHOP (Continued) **U001568768**

Phone Number: Not reported

Global Id: T0603762683
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603762683
Status: Completed - Case Closed
Status Date: 05/15/2008

Global Id: T0603762683
Status: Open - Case Begin Date
Status Date: 09/27/2007

Global Id: T0603762683
Status: Open - Site Assessment
Status Date: 10/01/2007

Global Id: T0603762683
Status: Open - Site Assessment
Status Date: 12/10/2007

Regulatory Activities:
Global Id: T0603762683
Action Type: REMEDIATION
Date: 10/01/2007
Action: Not reported

Global Id: T0603762683
Action Type: Other
Date: 09/27/2007
Action: Leak Discovery

Global Id: T0603762683
Action Type: Other
Date: 10/01/2007
Action: Leak Reported

SWEEPS UST:
Status: Active
Comp Number: 4917
Number: 9
Board Of Equalization: 44-007867
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-004917-000001
Tank Status: A

IRWINDALE SHOP (Continued) **U001568768**

Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 3

Status: Active
Comp Number: 4917
Number: 9
Board Of Equalization: 44-007867
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-004917-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 4917
Number: 9
Board Of Equalization: 44-007867
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-004917-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
File Number: 00026907
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026907.pdf
Region: STATE
Facility ID: 00000004815
Facility Type: Other
Other Type: TRUCK SHOP
Contact Name: Not reported
Telephone: 2132582777
Owner Name: CAL MAT CO. FORMERLY CONROCK C
Owner Address: 3200 SAN FERNANDO RD
Owner City,St,Zip: LOS ANGELES, CA 90065
Total Tanks: 0005

Tank Num: 001
Container Num: 1

IRWINDALE SHOP (Continued) **U001568768**

Year Installed: Not reported
Tank Capacity: 00010400
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 004
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 005
Container Num: 5
Year Installed: 1982
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: None

Click here for Geo Tracker PDF:

WDS:
Facility ID: 4 19I002244
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 4
Facility Telephone: Not reported
Facility Contact: Not reported
Agency Name: CALMAT CO.

IRWINDALE SHOP (Continued) **U001568768**

Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

WIP:

Region:	4
File Number:	108.0013
File Status:	**Historical**
Staff:	DKOO
Facility Suite:	Not reported

Region:	4
File Number:	108.0149
File Status:	**Not reported**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

134
NNE
1/4-1/2
0.285 mi.
1506 ft.

Relative:
Higher

Actual:
473 ft.

SPECIALTY ORGANICS INC
5263 N FOURTH ST
IRWINDALE, CA 91706

SEMS-ARCHIVE **1000171503**
RCRA-SQG **CAD981389661**
LUST
HIST UST
HIST CORTESE
LOS ANGELES CO. HMS
NPDES
WDS
WIP

SEMS-ARCHIVE:

Site ID:	901357
EPA ID:	CAD044047058

SPECIALTY ORGANICS INC (Continued) **1000171503**

Federal Facility: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0901357
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13286160.00000
Person ID: 13003854.00000

Contact Sequence ID: 13291755.00000
Person ID: 13003858.00000

Contact Sequence ID: 13297613.00000
Person ID: 13004003.00000

CERCLIS-NFRAP Assessment History:
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 12/01/87
Priority Level: Low priority for further assessment

Action: DISCOVERY
Date Started: / /
Date Completed: 07/01/84
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 09/01/88
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 09/01/88
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA-SQG:
Date form received by agency: 02/21/2002
Facility name: SPECIALTY ORGANICS, INC.
Facility address: 5263 N. FOURTH STREET
IRWINDALE, CA 91706
EPA ID: CAD981389661
Contact: JOSEPH V SERUTO
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: (626) 962-2008
Contact email: JOSEPH_SERUTO@COMPUSERVE.COM
EPA Region: 09
Land type: Private
Classification: Small Small Quantity Generator

SPECIALTY ORGANICS INC (Continued) **1000171503**

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency: 02/21/2002
Site name: SPECIALTY ORGANICS, INC.
Classification: Large Quantity Generator

. Waste code: 212
. Waste name: 212

. Waste code: 214
. Waste name: 214

. Waste code: 331
. Waste name: 331

. Waste code: 351
. Waste name: 351

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

SPECIALTY ORGANICS INC (Continued) **1000171503**

MIXTURES.

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

. Waste code: U188
. Waste name: PHENOL

Date form received by agency: 09/01/1996
Site name: SPECIALTY ORGANICS INC
Classification: Small Quantity Generator

Date form received by agency: 02/19/1986
Site name: SPECIALTY ORGANICS INC
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: F - 262.20-23.B
Area of violation: Generators - General
Date violation determined: 08/20/2001
Date achieved compliance: 01/08/2002
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/05/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.20-23.B
Area of violation: Generators - General
Date violation determined: 08/20/2001
Date achieved compliance: 01/08/2002
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 10/05/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.40-43.D
Area of violation: Generators - General
Date violation determined: 08/20/2001
Date achieved compliance: 01/08/2002
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 10/05/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported

SPECIALTY ORGANICS INC (Continued) **1000171503**

Paid penalty amount: Not reported

Regulation violated: F - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 08/20/2001
Date achieved compliance: 01/08/2002
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 10/05/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.40-43.D
Area of violation: Generators - General
Date violation determined: 08/20/2001
Date achieved compliance: 01/08/2002
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/05/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 08/20/2001
Date achieved compliance: 01/08/2002
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/05/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 10/26/1993
Date achieved compliance: 08/20/2001
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

SPECIALTY ORGANICS INC (Continued) **1000171503**

Evaluation Action Summary:
Evaluation date: 08/20/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/08/2002
Evaluation lead agency: EPA

Evaluation date: 10/26/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/20/2001
Evaluation lead agency: State Contractor/Grantee

LUST:
Region: STATE
Global Id: T0603703325
Latitude: 34.1079883
Longitude: -117.9387
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 02/01/1995
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: DK
Local Agency: LOS ANGELES COUNTY
RB Case Number: 108.0514
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Aviation
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603703325
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603703325
Contact Type: Regional Board Caseworker
Contact Name: DAVID KOO
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: Not reported
City: R4 UNKNOWN
Email: dkoo@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603703325
Status: Completed - Case Closed
Status Date: 02/01/1995

SPECIALTY ORGANICS INC (Continued) **1000171503**

Global Id: T0603703325
Status: Open - Case Begin Date
Status Date: 02/15/1990

Global Id: T0603703325
Status: Open - Site Assessment
Status Date: 04/10/1990

Regulatory Activities:
Global Id: T0603703325
Action Type: Other
Date: 02/15/1990
Action: Leak Stopped

Global Id: T0603703325
Action Type: ENFORCEMENT
Date: 02/01/1995
Action: Closure/No Further Action Letter

Global Id: T0603703325
Action Type: Other
Date: 02/15/1990
Action: Leak Discovery

Global Id: T0603703325
Action Type: Other
Date: 02/15/1990
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-08370
Status: Preliminary site assessment underway
Substance: 1
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603703325
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: Not reported
Enforcement Type: Not reported
Date Leak Discovered: 2/15/1990
Date Leak First Reported: 2/15/1990
Date Leak Record Entered: 5/15/1990
Date Confirmation Began: Not reported
Date Leak Stopped: 2/15/1990
Date Case Last Changed on Database: 5/16/1990
Date the Case was Closed: Not reported
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported

SPECIALTY ORGANICS INC (Continued) **1000171503**

Cause of Leak:	UNK
Leak Source:	UNK
Operator:	Not reported
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	2110.232852306896750372917154
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	4/10/1990
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	SPECIALTY ORGANICS, INC.
RP Address:	5263 004TH ST., N., IRWINDALE, 91706
Program:	LUST
Lat/Long:	34.1079883 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

HIST UST:

File Number:	000287D2
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000287D2.pdf
Region:	STATE
Facility ID:	00000055884
Facility Type:	Other
Other Type:	CHEMICAL MFG.
Contact Name:	Not reported
Telephone:	8189622008
Owner Name:	SPECIALTY ORGANICS, INC.
Owner Address:	5263 N. FOURTH ST.
Owner City,St,Zip:	IRWINDALE, CA 91706
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

SPECIALTY ORGANICS INC (Continued) **1000171503**

Click here for Geo Tracker PDF:

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-08370

LOS ANGELES CO. HMS:
Region: LA
Permit Category: S
Facility Id: 007903-047865
Facility Type: S6
Facility Status: Closed
Area: 3S
Permit Number: CGI001298
Permit Status: Closed

Region: LA
Permit Category: Not reported
Facility Id: 009132-008370
Facility Type: Not reported
Facility Status: Removed
Area: 3S
Permit Number: Not reported
Permit Status: Not reported

NPDES:
Npdes Number: Not reported
Facility Status: Not reported
Agency Id: Not reported
Region: 4
Regulatory Measure Id: 188781
Order No: Not reported
Regulatory Measure Type: Industrial
Place Id: Not reported
WDID: 4 19I001298
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
RECEIVED DATE: 5/9/2008
PROCESSED DATE: 3/27/1992
STATUS CODE NAME: Active
STATUS DATE: 3/27/1992
PLACE SIZE: 1
PLACE SIZE UNIT: 52
FACILITY CONTACT NAME: Joseph V Seruto
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: Not reported

SPECIALTY ORGANICS INC (Continued) **1000171503**

FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Specialty Organics Inc
OPERATOR ADDRESS:	5263 4th St
OPERATOR CITY:	Irwindale
OPERATOR STATE:	California
OPERATOR ZIP:	91706
OPERATOR CONTACT NAME:	Joseph V Seruto
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	626-962-2008
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Other
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Pacific Ocean
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	2869-Industrial Organic Chemicals, NEC
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

Npdes Number:	CAS000001
Facility Status:	Terminated
Agency Id:	0
Region:	4
Regulatory Measure Id:	188781
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I001298

SPECIALTY ORGANICS INC (Continued) **1000171503**

Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/27/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	07/01/2015
Discharge Name:	Specialty Organics Inc
Discharge Address:	5263 4th St
Discharge City:	Irwindale
Discharge State:	California
Discharge Zip:	91706
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported

SPECIALTY ORGANICS INC (Continued) **1000171503**

CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

WDS:

Facility ID:	4 19I001298
Facility Type:	Not reported
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	4
Facility Telephone:	Not reported
Facility Contact:	Not reported
Agency Name:	SPECIALTY ORGANICS INC.
Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Not reported
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

WIP:

Region:	4
File Number:	108.0514
File Status:	**Historical**

SPECIALTY ORGANICS INC (Continued) **1000171503**

Staff: DRASMUSS
Facility Suite: Not reported

R135 **L & M METAL PRODUCTS, INC.** **SLIC S106484710**
WNW **5108 CALMVIEW AVE** **WIP N/A**
1/4-1/2 **BALDWIN PARK, CA 91706**
0.290 mi.
1531 ft. **Site 1 of 2 in cluster R**

Relative:
Lower

Actual:
448 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	03/25/2015
Global Id:	SL603798909
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.103289
Longitude:	-117.946822
Case Type:	Cleanup Program Site
Case Worker:	GJH
Local Agency:	Not reported
RB Case Number:	108.1198
File Location:	Not reported
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

WIP:

Region:	4
File Number:	108.1198
File Status:	**Backlog**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

R136 **ARROW PARKING** **LUST S102060002**
West **5065 CALMVIEW AVE** **HIST CORTESE N/A**
1/4-1/2 **BALDWIN PARK, CA 91706** **WIP**
0.300 mi.
1584 ft. **Site 2 of 2 in cluster R**

Relative:
Lower

Actual:
447 ft.

LUST:

Region:	STATE
Global Id:	T0603705254
Latitude:	34.105051
Longitude:	-117.948238
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/04/1990
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-15598
LOC Case Number:	Not reported
File Location:	Not reported

ARROW PARKING (Continued) **S102060002**

Potential Media Affect: Soil
Potential Contaminants of Concern: Aviation
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603705254
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603705254
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603705254
Status: Completed - Case Closed
Status Date: 09/04/1990

Global Id: T0603705254
Status: Open - Case Begin Date
Status Date: 09/04/1990

Regulatory Activities:
Global Id: T0603705254
Action Type: Other
Date: 09/04/1990
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-15598
Status: Case Closed
Substance: 1
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603705254
W Global ID: Not reported
Staff: UNK
Local Agency: 19000

ARROW PARKING (Continued) **S102060002**

Cross Street:	ARROW HWY	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		9/4/1990
Date Leak Record Entered:	4/19/1996	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		9/4/1990
Date the Case was Closed:		9/4/1990
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Not reported	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		965.27377986185633555695128 96
Source of Cleanup Funding:		Not reported
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	ARROW PARKING	
RP Address:	5030 GAYHURST AVE, BALDWIN PARK CA 91706	
Program:	LUST	
Lat/Long:	34.1045163 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	Not reported	

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-15598

WIP:

Region:	4
File Number:	108.1195
File Status:	**Historical**
Staff:	DKOO

ARROW PARKING (Continued) **S102060002**

Facility Suite: Not reported

137
NE
1/4-1/2
0.309 mi.
1634 ft.

BIOSENSE WEBSTER INC
15715 ARROW HWY
IRWINDALE, CA 91706

RCRA-LQG 1000404139
SLIC CAD982360992
NPDES

Relative: Higher

Actual: 470 ft.

RCRA-LQG:

Date form received by agency:	01/25/2016
Facility name:	BIOSENSE WEBSTER INC
Facility address:	15715 ARROW HWY IRWINDALE, CA 91706
EPA ID:	CAD982360992
Contact:	WILLIAM K MUIRU
Contact address:	15715 ARROW HWY IRWINDALE, CA 91706
Contact country:	US
Contact telephone:	909-839-8595
Contact email:	WMUIRU@ITS.JNJ.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	BIOSENSE WEBSTER INC
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	08/01/1999
Owner/Op end date:	Not reported
Owner/operator name:	LOUISE NICKEL LIVING TRUST
Owner/operator address:	11620 WILSHIRE BLVD STE 1000 LOS ANGELES, 90025
Owner/operator country:	US
Owner/operator telephone:	310-966-1680
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	08/02/1992
Owner/Op end date:	Not reported

BIOSENSE WEBSTER INC (Continued) **1000404139**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 134
. Waste name: 134

. Waste code: 135
. Waste name: 135

. Waste code: 181
. Waste name: 181

. Waste code: 223
. Waste name: 223

. Waste code: 331
. Waste name: 331

. Waste code: 343
. Waste name: 343

. Waste code: 352
. Waste name: 352

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:
Date form received by agency: 01/05/2015
Site name: BIOSENSE WEBSTER INC

BIOSENSE WEBSTER INC (Continued) **1000404139**

Classification: Small Quantity Generator

. Waste code: 134
. Waste name: 134

. Waste code: 135
. Waste name: 135

. Waste code: 181
. Waste name: 181

. Waste code: 223
. Waste name: 223

. Waste code: 331
. Waste name: 331

. Waste code: 343
. Waste name: 343

. Waste code: 352
. Waste name: 352

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 09/01/1996
Site name: IOPTEX RESEARCH INC
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: IOPTEX RESEARCH INC
Classification: Small Quantity Generator

Date form received by agency: 03/08/1996
Site name: ALLERGAN MEDICAL OPTICS, IRWINDALE
Classification: Large Quantity Generator

Date form received by agency: 03/19/1994
Site name: IOPTEX RESEARCH, INC
Classification: Large Quantity Generator

Date form received by agency: 01/14/1992
Site name: IOPTEX RESEARCH INC
Classification: Large Quantity Generator

BIOSENSE WEBSTER INC (Continued) **1000404139**

Date form received by agency: 07/12/1989
Site name: IOPTEX RESEARCH INC
Classification: Small Quantity Generator

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U003
. Waste name: ACETONITRILE (I,T)

. Waste code: U080
. Waste name: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

. Waste code: U112
. Waste name: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

. Waste code: U113
. Waste name: 2-PROPENOIC ACID, ETHYL ESTER (I) (OR) ETHYL ACRYLATE (I)

. Waste code: U115
. Waste name: ETHYLENE OXIDE (I,T) (OR) OXIRANE (I,T)

. Waste code: U118
. Waste name: 2-PROPENOIC ACID, 2-METHYL-, ETHYL ESTER (OR) ETHYL METHACRYLATE

BIOSENSE WEBSTER INC (Continued) **1000404139**

. Waste code: U151
. Waste name: MERCURY

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U162
. Waste name: 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER (I,T) (OR) METHYL METHACRYLATE (I,T)

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

Violation Status: No violations found

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	10/29/2014
Global Id:	SL603798877
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.107038
Longitude:	-117.937666
Case Type:	Cleanup Program Site
Case Worker:	GJH
Local Agency:	Not reported
RB Case Number:	108.0255
File Location:	Not reported
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	191081
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I016097
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported

BIOSENSE WEBSTER INC (Continued) **1000404139**

Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	9/15/2000
STATUS CODE NAME:	Active
STATUS DATE:	9/15/2000
PLACE SIZE:	205200
PLACE SIZE UNIT:	53
FACILITY CONTACT NAME:	Racine Ward
FACILITY CONTACT TITLE:	EHS Manager
FACILITY CONTACT PHONE:	909-839-8595
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	rward7@its.jnj.com
OPERATOR NAME:	Biosense Webster Inc
OPERATOR ADDRESS:	15715 Arrow Hwy
OPERATOR CITY:	Irwindale
OPERATOR STATE:	California
OPERATOR ZIP:	91706
OPERATOR CONTACT NAME:	Dennis James
OPERATOR CONTACT TITLE:	Facility Director
OPERATOR CONTACT PHONE:	909-839-8562
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	djames@its.jnj.com
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Pacific Ocean
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	3841-Surgical and Medical Instruments and Apparatus
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

BIOSENSE WEBSTER INC (Continued) **1000404139**

Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	191081
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I016097
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	09/15/2000
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Biosense Webster Inc
Discharge Address:	15715 Arrow Hwy
Discharge City:	Irwindale
Discharge State:	California
Discharge Zip:	91706
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported

BIOSENSE WEBSTER INC (Continued) **1000404139**

CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

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138 **AMERICAN CAPACITOR CORP.,** **SLIC** **S106484690**
NNE **5367 THIRD ST** **WIP** **N/A**
1/4-1/2 **IRWINDALE, CA 91706**
0.353 mi.
1862 ft.

Relative:
Higher

Actual:
476 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	10/29/2014
Global Id:	SL603798884
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.108681
Longitude:	-117.936895
Case Type:	Cleanup Program Site
Case Worker:	GJH
Local Agency:	Not reported
RB Case Number:	108.0581
File Location:	Not reported
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

WIP:

Region:	4
File Number:	108.0581
File Status:	**Backlog**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

139
ESE
1/4-1/2
0.389 mi.
2054 ft.

IRWINDALE REDEVELOPMENT
4900 IRWINDALE AVE
IRWINDALE, CA 91706

LUST
SWEEPS UST
HIST CORTESE

S101296481
N/A

Relative:
Lower

Actual:
448 ft.

LUST:

Region:	STATE
Global Id:	T0603703009
Latitude:	34.1013145
Longitude:	-117.9340589
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/21/1993
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-04924
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603703009
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603703009
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603703009
Status:	Completed - Case Closed
Status Date:	10/21/1993

Global Id:	T0603703009
Status:	Open - Case Begin Date
Status Date:	03/05/1991

Global Id:	T0603703009
Status:	Open - Remediation
Status Date:	07/14/1992

Global Id:	T0603703009

IRWINDALE REDEVELOPMENT (Continued) **S101296481**

Status: Open - Site Assessment
Status Date: 12/09/1991

Regulatory Activities:
Global Id: T0603703009
Action Type: Other
Date: 03/05/1991
Action: Leak Stopped

Global Id: T0603703009
Action Type: Other
Date: 03/05/1991
Action: Leak Discovery

Global Id: T0603703009
Action Type: Other
Date: 12/09/1991
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-04924
Status: Case Closed
Substance: Diesel
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603703009
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: PEPPERTREE LANE
Enforcement Type: Not reported
Date Leak Discovered: 3/5/1991
Date Leak First Reported: 12/9/1991
Date Leak Record Entered: 12/22/1991
Date Confirmation Began: Not reported
Date Leak Stopped: 3/5/1991
Date Case Last Changed on Database: 10/21/1993
Date the Case was Closed: 10/21/1993
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: ALVARADO, CARLOS
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 526.772317788256192489545873 07
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 12/9/1991
Pollution Characterization Began: Not reported

IRWINDALE REDEVELOPMENT (Continued) **S101296481**

Remediation Plan Submitted: Not reported
Remedial Action Underway: 7/14/1992
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: IRWINDALE REDEVELOPMENT
RP Address: 5050 N IRWINDALE AVE, IRWINDALE, 91706
Program: LUST
Lat/Long: 34.1013145 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

SWEEPS UST:
Status: Active
Comp Number: 13528
Number: 1
Board Of Equalization: Not reported
Referral Date: 02-06-92
Action Date: 02-06-92
Created Date: 06-30-89
Owner Tank Id: 1
SWRCB Tank Id: 19-000-013528-000001
Tank Status: A
Capacity: 1000
Active Date: 02-06-92
Tank Use: OIL
STG: W
Content: Not reported
Number Of Tanks: 2

Status: Active
Comp Number: 13528
Number: 1
Board Of Equalization: Not reported
Referral Date: 02-06-92
Action Date: 02-06-92
Created Date: 06-30-89
Owner Tank Id: 2
SWRCB Tank Id: 19-000-013528-000002
Tank Status: A
Capacity: 2000
Active Date: 02-06-92
Tank Use: M.V. FUEL
STG: P
Content: DIESEL

IRWINDALE REDEVELOPMENT (Continued) **S101296481**

Number Of Tanks: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-04924

S140 **IRWINDALE (CONROCK) D.S.** **SWF/LF** **S102360621**
ESE **4827 N. IRWINDALE AVE.** **N/A**
1/4-1/2 **IRWINDALE, CA**
0.393 mi.
2075 ft. **Site 1 of 2 in cluster S**

Relative:
Higher

Actual:
450 ft.

SWF/LF (SWIS):
Region: STATE
Facility ID: 19-AA-0024
Lat/Long: 34.09972 / -117.95
Owner Name: Cal Mat Co.
Owner Telephone: 2132582777
Owner Address: Not reported
Owner Address2: 3200 San Fernando
Owner City,St,Zip: Los Angeles, CA 900065
Operational Status: Closed
Operator: Conrock Co.
Operator Phone: Not reported
Operator Address: Not reported
Operator Address2: 3200 San Fernando Rd
Operator City,St,Zip: Los Angeles, CA 90051
Permit Date: Not reported
Permit Status: Not reported
Permitted Acreage: $0.00
Activity: Solid Waste Disposal Site
Regulation Status: Unpermitted
Landuse Name: Residential,Industrial,Commercial
GIS Source: Map
Category: Disposal
Unit Number: 01
Inspection Frequency: Annual
Accepted Waste: Not reported
Closure Date: Not reported
Closure Type: Not reported
Disposal Acreage: $0.00
SWIS Num: 19-AA-0024
Waste Discharge Requirement Num: Not reported
Program Type: Not reported
Permitted Throughput with Units: Not reported
Actual Throughput with Units: Not reported
Permitted Capacity with Units: Not reported
Remaining Capacity: Not reported
Remaining Capacity with Units: Not reported
Lat/Long: 34.09972 / -117.95

S141
ESE
1/4-1/2
0.393 mi.
2075 ft.

IRWINDALE DISPOSAL SITE
4827 NORTH IRWINDALE AVENUE
IRWINDALE, CA

Site 2 of 2 in cluster S

SWF/LF **S111075952**
N/A

Relative:
Higher

Actual:
450 ft.

LOS ANGELES CO. LF:

Site ID:	1909
Alt. Address:	15700-15744 East Arrow Highway, Irwindale, CA; 15626 East Arrow Highway, Irwindale, CA
Site Contact:	Not reported
Site Contact Phone:	Not reported
Site Email:	Not reported
Site Website:	Not reported
Site Type:	Municipal Solid Waste Landfill
Site SWIS Number:	19-AA-0024
Beginning Operation Date:	1963
Ending Operation Date:	1975
Local Enforcement Agency:	County Public Health
Maximun Depth Fill(Ft):	150
Permitted Capacity:	Not reported
Present Use:	Commercial
Remaining Capacity(Million):	Not reported
Status:	Closed
Waste Accepted:	Inert
Hours of Operation:	Not reported
Disposal Area (Acre):	5

Detail As Of 01/2014:

Operator Name:	Conrock Co.
Operator Address:	3200 San Fernando Road
Operator City/State/Zip:	LOS ANGEELS, CA
Operator Contact:	Not reported
Operator Telephone:	Not reported
Operator Email:	Not reported
Owner Name:	Cal Mat CO.
Owner Address:	3200 San Fernando
Owner City/State/Zip:	Los Angeles, CA
Owner Contact:	George Cosby
Owner Telephone:	(213) 258-2777
Owner Email:	Not reported

142
NNE
1/4-1/2
0.413 mi.
2182 ft.

VALLEY CLUTCH CO. INC.
5396 THIRD ST
IRWINDALE, CA 91706

SLIC **S106484691**
WIP **N/A**

Relative:
Higher

Actual:
480 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	10/29/2014
Global Id:	SL603798885
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.108681
Longitude:	-117.936895
Case Type:	Cleanup Program Site
Case Worker:	GJH
Local Agency:	Not reported
RB Case Number:	108.0584

VALLEY CLUTCH CO. INC. (Continued) **S106484691**

File Location: Not reported
Potential Media Affected: Aquifer used for drinking water supply
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

WIP:
Region: 4
File Number: 108.0584
File Status: Backlog
Staff: UNIDENTIFIED
Facility Suite: Not reported

T143 **OLIVE PIT** **SLIC S106484686**
South **4407 AZUSA CANYON ROAD** **LDS N/A**
1/4-1/2 **IRWINDALE, CA 91706** **WIP**
0.419 mi.
2213 ft. **Site 1 of 2 in cluster T**

Relative:
Lower

Actual:
422 ft.

SLIC:
Region: STATE
Facility Status: Open - Inactive
Status Date: 10/29/2014
Global Id: SL603798880
Lead Agency: Not reported
Lead Agency Case Number: Not reported
Latitude: 34.092659
Longitude: -117.942063
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: Not reported
File Location: Not reported
Potential Media Affected: Aquifer used for drinking water supply
Potential Contaminants of Concern: Not reported
Site History: Based on the information and staff observations (1995), it was determined that chemicals were not stored or used at the subject site.
Not reported

Click here to access the California GeoTracker records for this facility:

LDS:

Global Id: T10000008842
Latitude: 34.09583
Longitude: -117.9485
Case Type: Land Disposal Site
Status: Open - Proposed
Status Date: 05/31/2016
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Caseworker: WY
Local Agency: Not reported
RB Case Number: 79-022
LOC Case Number: Not reported
File Location: Regional Board
Potential Media Affect: Not reported

OLIVE PIT (Continued) **S106484686**

EDR Link ID: T10000008842
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

WIP:
Region: 4
File Number: 108.0440
File Status: Backlog
Staff: UNIDENTIFIED
Facility Suite: Not reported

T144 **SPARKLETTS DRINKING WATER CORP** **LUST** **S108147379**
South **4548 AZUSA CANYON ROAD** **HIST UST** **N/A**
1/4-1/2 **IRWINDALE, CA 91706** **LOS ANGELES CO. HMS**
0.420 mi.
2216 ft. **Site 2 of 2 in cluster T**

Relative:
Lower

Actual:
424 ft.

LUST:
Region: STATE
Global Id: T10000003521
Latitude: 34.0944328
Longitude: -117.942974
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 12/08/2003
Lead Agency: LOS ANGELES COUNTY
Case Worker: TS
Local Agency: LOS ANGELES COUNTY
RB Case Number: Not reported
LOC Case Number: 007815-008269
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel, Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T10000003521
Contact Type: Local Agency Caseworker
Contact Name: ANOUSH HOUSEPIANS
Organization Name: LOS ANGELES COUNTY
Address: Not reported
City: ALHAMBRA
Email: Not reported
Phone Number: 6264583516

Status History:
Global Id: T10000003521
Status: Completed - Case Closed
Status Date: 12/08/2003

Global Id: T10000003521
Status: Open - Case Begin Date

SPARKLETTS DRINKING WATER CORP (Continued) **S108147379**

Status Date: 12/15/1998

Global Id: T10000003521
Status: Open - Site Assessment
Status Date: 08/22/2000

Regulatory Activities:
Global Id: T10000003521
Action Type: Other
Date: 12/16/1998
Action: Leak Discovery

Global Id: T10000003521
Action Type: Other
Date: 03/10/1999
Action: Leak Reported

Global Id: T10000003521
Action Type: ENFORCEMENT
Date: 12/08/2003
Action: Closure/No Further Action Letter

Global Id: T10000003521
Action Type: Other
Date: 12/15/1998
Action: Leak Stopped

HIST UST:
File Number: 000287BF
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000287BF.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

LOS ANGELES CO. HMS:
Region: LA
Permit Category: I

SPARKLETTS DRINKING WATER CORP (Continued) **S108147379**

Facility Id: 007815-046724
Facility Type: 01
Facility Status: Permit
Area: 3S
Permit Number: 000564493
Permit Status: Permit

145
East
1/4-1/2
0.469 mi.
2476 ft.

IRWINDALE CITY OF
16034 CALLE DEL NORTE
IRWINDALE, CA 91706

RCRA-SQG **1000596055**
LUST **CAD983600149**
FINDS
HAZNET
ECHO

Relative:
Higher

Actual:
468 ft.

RCRA-SQG:
Date form received by agency: 08/05/1991
Facility name: IRWINDALE CITY OF
Facility address: 16034 CALLE DEL NORTE
IRWINDALE, CA 91706
EPA ID: CAD983600149
Mailing address: N IRWINDALE AVE
IRWINDALE, CA 91706
Contact: LOUIE RIOS
Contact address: 5050 N IRWINDALE AVE
IRWINDALE, CA 91706
Contact country: US
Contact telephone: (818) 337-3262
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: CITY OF IRWINDALE
Owner/operator address: 5050 N IRWINDALE AVE
IRWINDALE, CA 91706
Owner/operator country: Not reported
Owner/operator telephone: (818) 962-3381
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No

IRWINDALE CITY OF (Continued) **1000596055**

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

LUST:
Region: STATE
Global Id: T10000000509
Latitude: 0
Longitude: 0
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 04/09/2009
Lead Agency: LOS ANGELES COUNTY
Case Worker: PGT
Local Agency: LOS ANGELES COUNTY
RB Case Number: Not reported
LOC Case Number: 005442-005643
File Location: Local Agency
Potential Media Affect: Not reported
Potential Contaminants of Concern: Gasoline, Other Petroleum
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T10000000509
Contact Type: Local Agency Caseworker
Contact Name: PHILLIP GHARIBIANS-TABRIZI
Organization Name: LOS ANGELES COUNTY
Address: 900 S. FREMONT AVE.
City: ALHAMBRA
Email: pgharibians@dpw.lacounty.gov
Phone Number: Not reported

Global Id: T10000000509
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T10000000509
Status: Completed - Case Closed
Status Date: 04/09/2009

Global Id: T10000000509
Status: Open - Case Begin Date
Status Date: 06/08/2004

Global Id: T10000000509
Status: Open - Site Assessment

IRWINDALE CITY OF (Continued) **1000596055**

Status Date: 11/18/2008

Regulatory Activities:

Global Id: T10000000509
Action Type: Other
Date: 06/08/2004
Action: Leak Discovery

Global Id: T10000000509
Action Type: Other
Date: 06/23/2004
Action: Leak Reported

Global Id: T10000000509
Action Type: Other
Date: 06/08/2004
Action: Leak Stopped

Global Id: T10000000509
Action Type: ENFORCEMENT
Date: 04/09/2009
Action: Closure/No Further Action Letter - #C604657

FINDS:

Registry ID: 110002856918

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:

envid: 1000596055
Year: 2014
GEPAID: CAD983600149
Contact: PEDRO RODRIGUEZ, LEADMAN
Telephone: 6264302233
Mailing Name: Not reported
Mailing Address: 5050 IRWINDALE AVE
Mailing City,St,Zip: IRWINDALE, CA 917062133
Gen County: Los Angeles
TSD EPA ID: CAD099452708
TSD County: Los Angeles
Waste Category: Waste oil and mixed oil
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,

IRWINDALE CITY OF (Continued) **1000596055**

	Organics Recovery Ect
Tons:	0.38
Cat Decode:	Waste oil and mixed oil
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Los Angeles
envid:	1000596055
Year:	2013
GEPAID:	CAD983600149
Contact:	PEDRO RODRIGUEZ, LEADMAN
Telephone:	6264302233
Mailing Name:	Not reported
Mailing Address:	5050 IRWINDALE AVE
Mailing City,St,Zip:	IRWINDALE, CA 917062133
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.187
Cat Decode:	Not reported
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Not reported
envid:	1000596055
Year:	2013
GEPAID:	CAD983600149
Contact:	PEDRO RODRIGUEZ, LEADMAN
Telephone:	6264302233
Mailing Name:	Not reported
Mailing Address:	5050 IRWINDALE AVE
Mailing City,St,Zip:	IRWINDALE, CA 917062133
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.1815
Cat Decode:	Not reported
Method Decode:	Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Not reported
envid:	1000596055
Year:	2013
GEPAID:	CAD983600149
Contact:	PEDRO RODRIGUEZ, LEADMAN
Telephone:	6264302233
Mailing Name:	Not reported
Mailing Address:	5050 IRWINDALE AVE
Mailing City,St,Zip:	IRWINDALE, CA 917062133
Gen County:	Los Angeles
TSD EPA ID:	CAD099452708
TSD County:	Los Angeles
Waste Category:	Not reported

IRWINDALE CITY OF (Continued) **1000596055**

Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.152
Cat Decode:	Not reported
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Not reported
envid:	1000596055
Year:	2011
GEPAID:	CAD983600149
Contact:	EDGAR ROJAS, ENG & MINING MGR
Telephone:	6264302210
Mailing Name:	Not reported
Mailing Address:	5050 IRWINDALE AVE
Mailing City,St,Zip:	IRWINDALE, CA 917062133
Gen County:	Not reported
TSD EPA ID:	CAD028409019
TSD County:	Not reported
Waste Category:	Unspecified aqueous solution
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.126
Cat Decode:	Unspecified aqueous solution
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
48 additional CA_HAZNET: record(s) in the EDR Site Report.

ECHO:

Envid:	1000596055
Registry ID:	110002856918
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002856918

U146 **CROWN VALLEY THREAD** **SLIC** **S106024824**
WNW **5137 N. ELTON ST.** **LOS ANGELES CO. HMS** **N/A**
1/4-1/2 **BALDWIN PARK, CA 91706** **WIP**
0.473 mi.
2495 ft. **Site 1 of 2 in cluster U**

Relative:
Higher

Actual:
449 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	11/03/2014
Global Id:	SL603798911
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.104021
Longitude:	-117.949628
Case Type:	Cleanup Program Site
Case Worker:	GJH
Local Agency:	Not reported
RB Case Number:	108.1269
File Location:	Not reported
Potential Media Affected:	Aquifer used for drinking water supply

CROWN VALLEY THREAD (Continued) **S106024824**

Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 015497-016852
Facility Type: Not reported
Facility Status: OPEN
Area: 3X
Permit Number: Not reported
Permit Status: Not reported

WIP:
Region: 4
File Number: 108.1268
File Status: Historical
Staff: RSK
Facility Suite: Not reported

Region: 4
File Number: 108.1269
File Status: Backlog
Staff: UNIDENTIFIED
Facility Suite: Not reported

U147 **ARROW SCREW PRODUCTS, INC.** **SLIC S106484709**
WNW **15012 E ARROW HWY** **WIP N/A**
1/4-1/2 **BALDWIN PARK, CA 91706**
0.493 mi.
2603 ft. **Site 2 of 2 in cluster U**

Relative:
Higher

Actual:
452 ft.

SLIC:
Region: STATE
Facility Status: Open - Inactive
Status Date: 10/29/2014
Global Id: SL603798908
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 34.107002
Longitude: -117.951856
Case Type: Cleanup Program Site
Case Worker: GJH
Local Agency: Not reported
RB Case Number: 108.1073
File Location: Not reported
Potential Media Affected: Aquifer used for drinking water supply
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

WIP:
Region: 4

ARROW SCREW PRODUCTS, INC. (Continued) **S106484709**

File Number: 108.1073
File Status: Backlog
Staff: UNIDENTIFIED
Facility Suite: Not reported

148
NNE
1/2-1
0.565 mi.
2983 ft.

Relative:
Higher

Actual:
494 ft.

DAVIS WIRE CORP
5555 IRWINDALE AVE
IRWINDALE, CA 91706

RCRA-LQG **1000262472**
ENVIROSTOR **CAD099466310**
LUST
ICIS
US AIRS
HIST CORTESE
LOS ANGELES CO. HMS
NPDES

RCRA-LQG:
Date form received by agency: 03/01/2014
Facility name: DAVIS WIRE CORPORATION
Facility address: 5555 N. IRWINDALE AVE
IRWINDALE, CA 917061097
EPA ID: CAD099466310
Mailing address: N. IRWINDALE AVE
IRWINDALE, CA 917061097
Contact: NANCY FELIX
Contact address: N. IRWINDALE AVE
IRWINDALE, CA 917061097
Contact country: Not reported
Contact telephone: (626) 815-3211
Contact email: NFELIX@DAVISWIRE.COM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: THE HEICO COMPANIES, LLC
Owner/operator address: WARRENVILLE RD, #400
DOWNERS GROVE, IL 60515
Owner/operator country: Not reported
Owner/operator telephone: (630) 353-5100
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/01/1991
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED

DAVIS WIRE CORP (Continued) **1000262472**

NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: JAMES WALKER
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: DAVIS WIRE CORPORATION
Owner/operator address: N. IRWINDALE AVE
IRWINDALE, CA 91706
Owner/operator country: Not reported
Owner/operator telephone: (626) 815-3211
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/01/1991
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

Historical Generators:
Date form received by agency: 09/01/1996
Site name: DAVIS WALKER CORP
Classification: Large Quantity Generator

DAVIS WIRE CORP (Continued) **1000262472**

Date form received by agency: 09/01/1996
Site name: DAVIS WALKER CORP
Classification: Small Quantity Generator

Date form received by agency: 04/25/1990
Site name: DAVIS WALKER CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 10/30/1980
Site name: DAVIS WALKER CORP
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 10/29/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

ENVIROSTOR:
Facility ID: 71002657
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 48
Senate: 22
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.11261
Longitude: -117.9369
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD099466310
Alias Type: EPA Identification Number
Alias Name: 110000477332
Alias Type: EPA (FRS #)
Alias Name: 71002657
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported

DAVIS WIRE CORP (Continued) **1000262472**

Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Region: STATE
Global Id: T0603700169
Latitude: 34.113352
Longitude: -117.937158
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 05/20/1996
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: WIP
Local Agency: LOS ANGELES COUNTY
RB Case Number: 108.0533
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603700169
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603700169
Contact Type: Regional Board Caseworker
Contact Name: WELL INVESTIGATION PROGRAM
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: LOS ANGELES
Email: Not reported
Phone Number: Not reported

Status History:
Global Id: T0603700169
Status: Completed - Case Closed
Status Date: 05/20/1996

DAVIS WIRE CORP (Continued) **1000262472**

Global Id: T0603700169
Status: Open - Case Begin Date
Status Date: 07/30/1990

Regulatory Activities:
Global Id: T0603700169
Action Type: Other
Date: 07/30/1990
Action: Leak Stopped

Global Id: T0603700169
Action Type: Other
Date: 07/30/1990
Action: Leak Discovery

Global Id: T0603700169
Action Type: Other
Date: 08/07/1990
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 108.0533
Status: Case Closed
Substance: Waste Oil
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603700169
W Global ID: Not reported
Staff: WIP
Local Agency: 19000
Cross Street: GLADSTONE ST.
Enforcement Type: Not reported
Date Leak Discovered: 7/30/1990
Date Leak First Reported: 8/7/1990
Date Leak Record Entered: 12/2/1990
Date Confirmation Began: Not reported
Date Leak Stopped: 7/30/1990
Date Case Last Changed on Database: 5/20/1996
Date the Case was Closed: 5/20/1996
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: BURNHAM, DALE E.
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 4331.60584645069896500541597 43
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported

DAVIS WIRE CORP (Continued) **1000262472**

Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: DAVIS WIRE CORP.
RP Address: 5555 IRWINDALE AVE., N., IRWINDALE, 91706
Program: LUST
Lat/Long: 34.1134761 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: OLD CASE #120390-17; 3/19/96 PRELIMINARY SOIL GAS SURVEY; WIP CASE STAFF PERSON: DAVID RASMUSSEN

ICIS:
Enforcement Action ID: CASCAA200137865
FRS ID: 110000477332
Action Name: NOV P56338 FOR RULE 2004
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA200129235
FRS ID: 110000477332
Action Name: NOV P57825 RULE 2012 APPENDIX A
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal

DAVIS WIRE CORP (Continued) **1000262472**

EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100127
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100127
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100126
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100126
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100105
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100105
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Administrative Order

DAVIS WIRE CORP (Continued) **1000262472**

Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100104
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100104
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100085
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100085
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100084
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100084
Facility Name: DAVIS WIRE CORP

DAVIS WIRE CORP (Continued) **1000262472**

Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Notice of Violation
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006037C887100063
FRS ID:	110000477332
Action Name:	DAVIS WIRE CORP 06037C887100063
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Administrative Order
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006037C887100062
FRS ID:	110000477332
Action Name:	DAVIS WIRE CORP 06037C887100062
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Notice of Violation
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006037C887100037

DAVIS WIRE CORP (Continued) **1000262472**

FRS ID:	110000477332
Action Name:	DAVIS WIRE CORP 06037C887100037
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Administrative Order
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006037C887100036
FRS ID:	110000477332
Action Name:	DAVIS WIRE CORP 06037C887100036
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Notice of Violation
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006037C887100033
FRS ID:	110000477332
Action Name:	DAVIS WIRE CORP 06037C887100033
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Administrative Order
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222

DAVIS WIRE CORP (Continued) **1000262472**

Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100032
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100032
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100029
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100029
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100028
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100028
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214

DAVIS WIRE CORP (Continued) **1000262472**

Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100025
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100025
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100024
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100024
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100021
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100021
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3315

DAVIS WIRE CORP (Continued) **1000262472**

Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006037C887100020
FRS ID:	110000477332
Action Name:	DAVIS WIRE CORP 06037C887100020
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Notice of Violation
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006037C887100014
FRS ID:	110000477332
Action Name:	DAVIS WIRE CORP 06037C887100014
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Administrative Order
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006037C887100013
FRS ID:	110000477332
Action Name:	DAVIS WIRE CORP 06037C887100013
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Notice of Violation
Facility County:	LOS ANGELES
Program System Acronym:	AIR

DAVIS WIRE CORP (Continued) **1000262472**

Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100010
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100010
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100009
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100009
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

US AIRS (AFS):
Envid: 1000262472
Region Code: 09
County Code: CA037
Programmatic ID: AIR CASCA00006037C8871

DAVIS WIRE CORP (Continued) **1000262472**

Facility Registry ID: 110000477332
D and B Number: Not reported
Facility Site Name: DAVIS WIRE CORP
Primary SIC Code: 3315
NAICS Code: 331222
Default Air Classification Code: MAJ
Facility Type of Ownership Code: POF
Air CMS Category Code: TVM
HPV Status: Not reported

US AIRS (AFS):
Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2015-09-29 17:21:20
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2016-05-31 16:23:59
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2003-05-28 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2005-08-10 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

DAVIS WIRE CORP (Continued) **1000262472**

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2006-05-24 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2007-01-16 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2010-02-26 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2012-08-02 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2014-03-25 00:00:00
Activity Group: Case File

DAVIS WIRE CORP (Continued) **1000262472**

Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-08-13 00:00:00
Activity Status Date: 2014-10-30 18:53:15
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-10-21 00:00:00
Activity Status Date: 2014-10-30 18:49:07
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-10-21 00:00:00
Activity Status Date: 2014-10-30 19:04:40
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-08-19 00:00:00
Activity Status Date: 2015-09-29 17:19:54
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

DAVIS WIRE CORP (Continued) **1000262472**

Activity Date: 1996-10-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-01-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-10-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-07-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-12-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332

DAVIS WIRE CORP (Continued) **1000262472**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-02-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-12-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-12-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-04-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-04-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

DAVIS WIRE CORP (Continued) **1000262472**

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-09-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-10-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-10-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-06-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-08-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

DAVIS WIRE CORP (Continued) **1000262472**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-08-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-10-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-03-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

DAVIS WIRE CORP (Continued) **1000262472**

Activity Date: 2006-03-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-05-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-05-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-06-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-07-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332

DAVIS WIRE CORP (Continued) **1000262472**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-07-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-01-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

DAVIS WIRE CORP (Continued) **1000262472**

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-01-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-09-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-01-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

DAVIS WIRE CORP (Continued) **1000262472**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-04-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

DAVIS WIRE CORP (Continued) **1000262472**

Activity Date: 2010-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-10-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332

DAVIS WIRE CORP (Continued) **1000262472**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-03-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-08-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-10-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-11-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-11-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

DAVIS WIRE CORP (Continued) **1000262472**

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-08-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-08-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-12-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

DAVIS WIRE CORP (Continued) **1000262472**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-12-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-08-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-12-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

DAVIS WIRE CORP (Continued) **1000262472**

Activity Date: 2013-12-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-04-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-01-21 00:00:00
Activity Status Date: 2003-01-21 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-03-10 00:00:00
Activity Status Date: 2005-03-10 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-12-22 00:00:00
Activity Status Date: 2005-12-22 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332

DAVIS WIRE CORP (Continued) **1000262472**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-08-24 00:00:00
Activity Status Date: 2006-08-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-10-17 00:00:00
Activity Status Date: 2008-10-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-02-03 00:00:00
Activity Status Date: 2012-02-03 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-06-18 00:00:00
Activity Status Date: 2013-06-18 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-05-15 00:00:00
Activity Status Date: 2002-05-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

DAVIS WIRE CORP (Continued) **1000262472**

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-12-14 00:00:00
Activity Status Date: 2004-12-14 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-10-05 00:00:00
Activity Status Date: 2005-10-05 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-06-15 00:00:00
Activity Status Date: 2006-06-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-11-13 00:00:00
Activity Status Date: 2007-11-13 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-09-20 00:00:00
Activity Status Date: 2011-09-20 00:00:00
Activity Group: Enforcement Action

DAVIS WIRE CORP (Continued) **1000262472**

Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-12-12 00:00:00
Activity Status Date: 2012-12-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2015-09-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2016-02-05 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2015-09-29 17:21:20
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

DAVIS WIRE CORP (Continued) **1000262472**

Activity Date: Not reported
Activity Status Date: 2016-05-31 16:23:59
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2001-02-20 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2001-09-12 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2004-06-16 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2005-04-08 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332

DAVIS WIRE CORP (Continued) **1000262472**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2005-08-10 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2006-05-24 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2007-01-16 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2010-02-26 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2012-08-02 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

DAVIS WIRE CORP (Continued) **1000262472**

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2014-03-25 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-08-13 00:00:00
Activity Status Date: 2014-10-30 18:53:15
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-10-21 00:00:00
Activity Status Date: 2014-10-30 18:49:07
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-10-21 00:00:00
Activity Status Date: 2014-10-30 19:04:40
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-08-19 00:00:00
Activity Status Date: 2015-09-29 17:19:54
Activity Group: Compliance Monitoring

DAVIS WIRE CORP (Continued) **1000262472**

Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-07-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-12-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-12-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-04-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

DAVIS WIRE CORP (Continued) **1000262472**

Activity Date: 2003-04-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-09-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-10-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-10-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-06-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332

DAVIS WIRE CORP (Continued) **1000262472**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-08-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-08-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-10-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-03-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

DAVIS WIRE CORP (Continued) **1000262472**

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-03-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-05-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-05-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-06-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-07-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

DAVIS WIRE CORP (Continued) **1000262472**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-07-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-01-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

DAVIS WIRE CORP (Continued) **1000262472**

Activity Date: 2007-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-01-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-09-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-01-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332

DAVIS WIRE CORP (Continued) **1000262472**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-04-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

DAVIS WIRE CORP (Continued) **1000262472**

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-10-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

DAVIS WIRE CORP (Continued) **1000262472**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-03-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-08-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-10-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-11-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

DAVIS WIRE CORP (Continued) **1000262472**

Activity Date: 2011-11-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-08-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-08-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-09-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-12-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332

DAVIS WIRE CORP (Continued) **1000262472**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-12-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-08-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-12-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

DAVIS WIRE CORP (Continued) **1000262472**

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-12-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-04-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-08-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-12-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-07-26 00:00:00
Activity Status Date: 2000-07-26 00:00:00
Activity Group: Enforcement Action

DAVIS WIRE CORP (Continued) **1000262472**

Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-09-12 00:00:00
Activity Status Date: 2001-09-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-06-03 00:00:00
Activity Status Date: 2003-06-03 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-06-25 00:00:00
Activity Status Date: 2004-06-25 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-03-10 00:00:00
Activity Status Date: 2005-03-10 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

DAVIS WIRE CORP (Continued) **1000262472**

Activity Date: 2005-12-22 00:00:00
Activity Status Date: 2005-12-22 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-08-24 00:00:00
Activity Status Date: 2006-08-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-10-17 00:00:00
Activity Status Date: 2008-10-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-03 00:00:00
Activity Status Date: 2012-02-03 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-06-18 00:00:00
Activity Status Date: 2013-06-18 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332

DAVIS WIRE CORP (Continued) **1000262472**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-10-01 00:00:00
Activity Status Date: 1998-10-01 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-08-08 00:00:00
Activity Status Date: 2001-08-08 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-03-20 00:00:00
Activity Status Date: 2003-03-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-04-27 00:00:00
Activity Status Date: 2004-04-27 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-12-14 00:00:00
Activity Status Date: 2004-12-14 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

DAVIS WIRE CORP (Continued) **1000262472**

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-10-05 00:00:00
Activity Status Date: 2005-10-05 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-06-15 00:00:00
Activity Status Date: 2006-06-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-11-13 00:00:00
Activity Status Date: 2007-11-13 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-09-20 00:00:00
Activity Status Date: 2011-09-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-12-12 00:00:00
Activity Status Date: 2012-12-12 00:00:00
Activity Group: Enforcement Action

DAVIS WIRE CORP (Continued) **1000262472**

Activity Type:	Administrative - Informal
Activity Status:	Achieved
Region Code:	09
Programmatic ID:	AIR CASCA00006037C8871
Facility Registry ID:	110000477332
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	Not reported
Activity Status Date:	2015-09-17 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved
Region Code:	09
Programmatic ID:	AIR CASCA00006037C8871
Facility Registry ID:	110000477332
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	Not reported
Activity Status Date:	2016-02-05 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	108.0533

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T
Facility Id:	002365-002447
Facility Type:	0
Facility Status:	Closed
Area:	3S
Permit Number:	00001578T
Permit Status:	Closed

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	190045
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I010894
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported

DAVIS WIRE CORP (Continued) **1000262472**

Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	2/17/1994
STATUS CODE NAME:	Active
STATUS DATE:	5/7/2008
PLACE SIZE:	15
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	Debbie Moore
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	626-347-0113
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	dmoore@daviswire.com
OPERATOR NAME:	Davis Wire Corp
OPERATOR ADDRESS:	5555 Irwindale Ave
OPERATOR CITY:	Irwindale
OPERATOR STATE:	California
OPERATOR ZIP:	91706
OPERATOR CONTACT NAME:	Debbie Moore
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	626-347-0113
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	dmoore@daviswire.com
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	626-969-7651
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported

DAVIS WIRE CORP (Continued) **1000262472**

RECEIVING WATER NAME:	Upper San Gabriel River
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	3315-Steel Wiredrawing and Steel Nails and Spikes
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	190045
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I010894
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/17/1994
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Davis Wire Corp
Discharge Address:	5555 Irwindale Ave
Discharge City:	Irwindale
Discharge State:	California
Discharge Zip:	91706
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported

DAVIS WIRE CORP (Continued) **1000262472**

EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

149
SSE
1/2-1
0.605 mi.
3193 ft.

Relative:
Lower

Actual:
426 ft.

AMERICAN PHARMASEAL LABORATORIES
4401 FOXDALE AVE
IRWINDALE, CA 91706

SEMS **1000360641**
RCRA-SQG **CAD000628099**
ENVIROSTOR
FINDS
HAZNET
HIST CORTESE
NPDES
WIP
ECHO

SEMS:

Site ID:	903628
EPA ID:	CAD000628099
Federal Facility:	N
NPL:	Site is Part of NPL Site
Non NPL Status:	Not reported

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID:	0903628
EPA ID:	CAD000628099
Facility County:	LOS ANGELES
Short Name:	BAXTER HEALTHCARE CORP. S
Congressional District:	30
IFMS ID:	Not reported
SMSA Number:	4480
USGC Hydro Unit:	18070106
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

Site Init By Prog: Not reported
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 09
Classification: Not reported
Site Settings Code: Not reported
NPL Status: Site is Part of NPL Site
DMNSN Unit Code: Not reported
RBRAC Code: Not reported
RResp Fed Agency Code: Not reported
Non NPL Status: Not reported
Non NPL Status Date: / /
Site Fips Code: 06037
CC Concurrence Date: / /
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):
Contact ID: 13003854.00000
Contact Name: Leslie Ramirez
Contact Tel: (415) 972-3978
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13003858.00000
Contact Name: Sharon Murray
Contact Tel: (415) 972-4250
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13004003.00000
Contact Name: Carl Brickner
Contact Tel: Not reported
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

CERCLIS Site Alias Name(s):
Alias ID: 101
Alias Name: BAXTER HEALTHCARE CORP
Alias Address: Not reported
CA
Alias ID: 201
Alias Name: AMERICAN PHARMASEAL LABORATORIES
Alias Address: Not reported
CA
Alias ID: 201
Alias ID: 101
Alias Comments: PREVIOUS EPA ID# AZD 981 416 977PREVIOUS EPA ID# AZD 981 416 977
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

Date Completed: 06/21/89
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 06/07/91
Priority Level: Addressed as part of an existing NPL site
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: AMERICAN PHARMASEAL LABORATORIES
Facility address: 4401 FOXDALE AVE
IRWINDALE, CA 91706
EPA ID: CAD000628099
Mailing address: 4401 FOXDALE AVENUE
IRWINDALE, CA 91706
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: AMERICAN PHARMASEAL LABORATORIES
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/19/1992
Site name: BAXTER HEALTHCARE PHARMASEAL DIVISION
Classification: Large Quantity Generator

Date form received by agency: 07/30/1980
Site name: AMERICAN PHARMASEAL LABORATORIES
Classification: Large Quantity Generator

Violation Status: No violations found

ENVIROSTOR:
Facility ID: 19380055
Status: Refer: RWQCB
Status Date: 05/16/1995
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Chatsworth
Assembly: 48
Senate: 22
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.09397

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

Longitude: -117.9381
APN: 8417004009
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: AMERICAN PHARMASEAL LABORATORIES
Alias Type: Alternate Name
Alias Name: 8417004009
Alias Type: APN
Alias Name: CAD000628099
Alias Type: CERCLIS ID
Alias Name: 110000477378
Alias Type: EPA (FRS #)
Alias Name: 19380055
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 07/21/1994
Comments: Site screening/visit conducted. Ejie Solomon at RWQCB is Project Manager supervising cleanup activities at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/26/1991
Comments: RWQCB conducted a site inspection of Baxter Pharmaseal in December 1989. As a result of the investigation, a subsurface investigation was conducted to determine the extent of contamination in the dioctyl phthalate (DOP) tank/precipatate collection and clarifier areas. Phase I and Phase II investigations were completed on 06/22/90 and 01/14/91 respectively. Phase I and Phase II investigations indicate that hazardous substances (PCE), toluene, freon-TF, Bis (2-ethyl hexyl phthalate (BEHP) have contaminated the soil. EPA recommends for a high priority SSI, DHS recommends high priority PEA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 05/03/1991
Comments: Listed on RCRA database as a hazardous waste generator since 07/30/1980.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

FINDS:

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

Registry ID: 110000477378

Environmental Interest/Information System

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

STATE MASTER

HAZARDOUS WASTE BIENNIAL REPORTER

US EPA Risk Management Plan (RMP) database stores the risk management plans reported by companies that handle, manufacture, use, or store certain flammable or toxic substances, as required under section 112(r) of the Clean Air Act (CAA).

HAZNET:

envid:	1000360641
Year:	1994
GEPAID:	CAD000628099
Contact:	AMERICAN PHARMASEAL LABORATORI
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	4401 FOXDALE AVE
Mailing City,St,Zip:	IRWINDALE, CA 917060000
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
Waste Category:	Empty containers less than 30 gallons
Disposal Method:	Disposal, Land Fill
Tons:	.0150
Cat Decode:	Empty containers less than 30 gallons
Method Decode:	Disposal, Land Fill
Facility County:	Los Angeles

envid:	1000360641
Year:	1993
GEPAID:	CAD000628099
Contact:	AMERICAN PHARMASEAL LABORATORI
Telephone:	0000000000
Mailing Name:	Not reported

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

Mailing Address: 4401 FOXDALE AVE
Mailing City,St,Zip: IRWINDALE, CA 917060000
Gen County: Not reported
TSD EPA ID: CAD008302903
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Recycler
Tons: 2.07999999999
Cat Decode: Off-specification, aged or surplus organics
Method Decode: Recycler
Facility County: Los Angeles

envid: 1000360641
Year: 1993
GEPAID: CAD000628099
Contact: AMERICAN PHARMASEAL LABORATORI
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 4401 FOXDALE AVE
Mailing City,St,Zip: IRWINDALE, CA 917060000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Laboratory waste chemicals
Disposal Method: Transfer Station
Tons: 3.79999999999
Cat Decode: Laboratory waste chemicals
Method Decode: Transfer Station
Facility County: Los Angeles

envid: 1000360641
Year: 1993
GEPAID: CAD000628099
Contact: AMERICAN PHARMASEAL LABORATORI
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 4401 FOXDALE AVE
Mailing City,St,Zip: IRWINDALE, CA 917060000
Gen County: Not reported
TSD EPA ID: CAD008302903
TSD County: Not reported
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Tons: 0.68799999999
Cat Decode: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Method Decode: Recycler
Facility County: Los Angeles

envid: 1000360641
Year: 1993
GEPAID: CAD000628099
Contact: AMERICAN PHARMASEAL LABORATORI
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 4401 FOXDALE AVE
Mailing City,St,Zip: IRWINDALE, CA 917060000
Gen County: Not reported

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

TSD EPA ID:	CAT000646117
TSD County:	Not reported
Waste Category:	Other empty containers 30 gallons or more
Disposal Method:	Disposal, Land Fill
Tons:	1.49999999999
Cat Decode:	Other empty containers 30 gallons or more
Method Decode:	Disposal, Land Fill
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
7 additional CA_HAZNET: record(s) in the EDR Site Report.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	3138

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	328533
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I021020
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	7/20/2007
STATUS CODE NAME:	Active
STATUS DATE:	7/20/2007
PLACE SIZE:	20
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	Louis Ornelas
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	626-856-8686
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	lornelas@readypac.net
OPERATOR NAME:	Ready Pac Foods
OPERATOR ADDRESS:	4401 Foxdale Ave
OPERATOR CITY:	Irwindale
OPERATOR STATE:	California
OPERATOR ZIP:	91706
OPERATOR CONTACT NAME:	Louis F Ornelas
OPERATOR CONTACT TITLE:	Not reported

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

OPERATOR CONTACT PHONE:	626-856-8686
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Y
RECEIVING WATER NAME:	Dalton Wash Stream & Ocean
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	2099-Food Preparations, NEC
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	328533
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I021020
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/20/2007
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Ready Pac Foods
Discharge Address:	4401 Foxdale Ave
Discharge City:	Irwindale
Discharge State:	California

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

Discharge Zip:	91706
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

WIP:
Region: 4
File Number: 108.0516
File Status: Historical
Staff: ESOLOMON
Facility Suite: Not reported

ECHO:
Envid: 1000360641
Registry ID: 110069447030
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110069447030

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150 NE 1/2-1 0.705 mi. 3720 ft.

Relative: Higher

Actual: 499 ft.

KEMAC TECHNOLOGY INC.
5462 N. IRWINDALE
IRWINDALE, CA 91706

RCRA-SQG **1000133491**
ENVIROSTOR **CAD981972771**
EMI
LOS ANGELES CO. HMS
NPDES
WDS

RCRA-SQG:
Date form received by agency: 05/10/2004
Facility name: KEMAC TECHNOLOGY INC.
Facility address: 5462 N. IRWINDALE
IRWINDALE, CA 91706
EPA ID: CAD981972771
Contact: RICHMOND G TEH
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: (626) 334-1519
Telephone ext.: 14
Contact email: RTEH@KEMACTECH.COM
EPA Region: 09
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: KEMAC TECHNOLOGY INC.
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 05/01/1995
Owner/Op end date: Not reported

Owner/operator name: IRWINDALE PROPERTIES, LLC
Owner/operator address: 405 S. MOTOR
AZUSA, CA 91702
Owner/operator country: US

KEMAC TECHNOLOGY INC. (Continued) **1000133491**

Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/27/2003
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 05/10/2004
Site name: KEMAC TECHNOLOGY INC.
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 03/19/2002
Site name: KEMAC TECHNOLOGY, INC
Classification: Large Quantity Generator

KEMAC TECHNOLOGY INC. (Continued) **1000133491**

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 09/01/1996
Site name: KEMAC TECH INC
Classification: Large Quantity Generator

Date form received by agency: 04/23/1996
Site name: KEMAC TECH INC
Classification: Large Quantity Generator

Date form received by agency: 03/29/1994
Site name: TRW SENSOR OPERATIONS
Classification: Large Quantity Generator

Date form received by agency: 02/28/1992
Site name: TRW TECHNAR INC
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 07/17/2003
Date achieved compliance: 08/18/2003
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/17/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 07/17/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/18/2003
Evaluation lead agency: State Contractor/Grantee

ENVIROSTOR:
Facility ID: 71002929
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit

KEMAC TECHNOLOGY INC. (Continued) **1000133491**

Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 48
Senate: 22
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.11169
Longitude: -117.9339
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD981972771
Alias Type: EPA Identification Number
Alias Name: 110009540675
Alias Type: EPA (FRS #)
Alias Name: 71002929
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

EMI:
Year: 1987
County Code: 19
Air Basin: SC
Facility ID: 55829
Air District Name: SC
SIC Code: 3714
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 5
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0

KEMAC TECHNOLOGY INC. (Continued) **1000133491**

NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 55829
Air District Name: SC
SIC Code: 3714
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 68
Reactive Organic Gases Tons/Yr: 26
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 1995
County Code: 19
Air Basin: SC
Facility ID: 55829
Air District Name: SC
SIC Code: 3714
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 30
Reactive Organic Gases Tons/Yr: 6
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

LOS ANGELES CO. HMS:
Region: LA
Permit Category: I
Facility Id: 007902-023516
Facility Type: 02
Facility Status: Closed
Area: 3S
Permit Number: 000014257
Permit Status: Closed

Region: LA
Permit Category: S
Facility Id: 007902-047859
Facility Type: S6
Facility Status: Closed
Area: 3S
Permit Number: CGI012842
Permit Status: Closed

KEMAC TECHNOLOGY INC. (Continued) **1000133491**

Region: LA
Permit Category: I
Facility Id: 007902-I08369
Facility Type: 02
Facility Status: Closed
Area: 3S
Permit Number: 000011280
Permit Status: Closed

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	269123
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I009134
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	11/7/1992
STATUS CODE NAME:	Terminated
STATUS DATE:	11/7/1992
PLACE SIZE:	141778
PLACE SIZE UNIT:	53
FACILITY CONTACT NAME:	Barbara Cruz
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	626-812-7211
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	TRW Automotive Electronics Group
OPERATOR ADDRESS:	902 S Second St
OPERATOR CITY:	Marshall
OPERATOR STATE:	Illinois
OPERATOR ZIP:	62441
OPERATOR CONTACT NAME:	Barb Igleheart
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	217-826-2311
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Illinois
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported

KEMAC TECHNOLOGY INC. (Continued) **1000133491**

DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	626-812-7211
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Sante Fe Basin To San Gabriel
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	3714-Motor Vehicle Parts and Accessories
SECONDARY SIC:	3679-Electronic Components, NEC
TERTIARY SIC:	Not reported

WDS:

Facility ID:	4 19I012842
Facility Type:	Not reported
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	4
Facility Telephone:	Not reported
Facility Contact:	Not reported
Agency Name:	KEMAC TECHNOLOGY
Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Not reported
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported

KEMAC TECHNOLOGY INC. (Continued) **1000133491**

POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

V151 **NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA)** **ENVIROSTOR** **U001568706**
NNE **405 S MOTOR AVE** **SLIC** **N/A**
1/2-1 **AZUSA, CA 91702** **SWEEPS UST**
0.836 mi. **HIST UST**
4416 ft. **Site 1 of 3 in cluster V** **HWP**
NPDES
Relative: **WIP**
Higher **ICE**

Actual: **507 ft.**

ENVIROSTOR:
Facility ID: 80001568
Status: Active
Status Date: 06/15/2009
Site Code: 300305
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 2.75
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: WM
Program Manager: Stephanie Lewis
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Assembly: 48
Senate: 22
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.11626
Longitude: -117.9352
APN: 8615002022
Past Use: MANUFACTURING - CHEMICALS, OIL/WATER SEPARATORS, WASTE WATER PONDS
Potential COC: Lead Bis(2-ethylhexyl)phthalate (DEHP) Butyl benzyl phthalate Benzene Chloroform Chloromethane (methyl chloride Benzoic acid
Confirmed COC: Benzene Benzoic acid Chloromethane (methyl chloride Bis(2-ethylhexyl)phthalate (DEHP) Butyl benzyl phthalate Chloroform Lead
Potential Description: OTH, SED, SOIL, SV
Alias Name: 8615002022
Alias Type: APN
Alias Name: CAD008352957
Alias Type: EPA Identification Number
Alias Name: 300305

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Alias Type: Project Code (Site Code)
Alias Name: 80001568
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 09/03/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 06/30/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/27/2009
Comments: Letter sent to RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 03/16/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Selection and Statement of Basis
Completed Date: 06/30/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Report
Completed Date: 09/15/2014
Comments: RFI approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan Addendum
Completed Date: 01/28/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/28/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/01/1990
Comments: Not reported

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	RFI Workplan
Completed Date:	02/14/2006
Comments:	Releases from the SWMUs and HWMUs and AOCs identified in the CCR and CACA.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Risk Assessment Report
Completed Date:	06/30/2014
Comments:	The Human Health Risk Assessment was approved on 6/30/2014

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	RFI Workplan Addendum
Completed Date:	04/16/2012
Comments:	-Resampling efforts were completed on February 29, 2012. Results were received by DTSC on March 7, 2012 and accepted/approved by DTSC on April 16, 2012.

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Fact Sheets
Schedule Due Date:	02/12/2016
Schedule Revised Date:	11/28/2016
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Corrective Measures Study Report
Schedule Due Date:	07/27/2016
Schedule Revised Date:	05/23/2017
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Corrective Action Completion Determination
Schedule Due Date:	08/29/2016
Schedule Revised Date:	01/08/2017
Schedule Area Name:	PROJECT WIDE
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Land Use Restriction
Schedule Due Date:	11/30/2016
Schedule Revised Date:	Not reported

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	10/29/2014
Global Id:	SL603798883
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.116153
Longitude:	-117.933994
Case Type:	Cleanup Program Site
Case Worker:	GJH

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Local Agency: Not reported
RB Case Number: 108.0566
File Location: Not reported
Potential Media Affected: Aquifer used for drinking water supply
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SWEEPS UST:
Status: Active
Comp Number: 10060
Number: 9
Board Of Equalization: Not reported
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
File Number: 00028BB9
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028BB9.pdf
Region: STATE
Facility ID: 00000008036
Facility Type: Other
Other Type: MANUFACTUR
Contact Name: RAY STAPP
Telephone: 8183342908
Owner Name: THE NORAC COMPANY, INC.
Owner Address: 405 S. MOTOR AVE
Owner City,St,Zip: AZUSA, CA 91702
Total Tanks: 0018

Tank Num: 001
Container Num: #1
Year Installed: Not reported
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 3/16
Leak Detection: None

Tank Num: 002
Container Num: #2
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Container Construction Thickness:	3/16 2
Leak Detection:	None
Tank Num:	003
Container Num:	#3
Year Installed:	1973
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	None
Tank Num:	004
Container Num:	#4
Year Installed:	1973
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	None
Tank Num:	005
Container Num:	#5
Year Installed:	1973
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	006
Container Num:	#6
Year Installed:	1973
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	007
Container Num:	#7
Year Installed:	1973
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	None
Tank Num:	008
Container Num:	#8
Year Installed:	1973
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Tank Num:	009
Container Num:	#9
Year Installed:	1963
Tank Capacity:	00002100
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

Tank Num:	010
Container Num:	#10
Year Installed:	1973
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

Tank Num:	011
Container Num:	#11
Year Installed:	1956
Tank Capacity:	00000267
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	7
Leak Detection:	Visual

Tank Num:	012
Container Num:	#12
Year Installed:	1962
Tank Capacity:	00002681
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	10
Leak Detection:	Visual

Tank Num:	013
Container Num:	#13
Year Installed:	1962
Tank Capacity:	00002500
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	8
Leak Detection:	Visual

Tank Num:	014
Container Num:	#14
Year Installed:	1964
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	5
Leak Detection:	Visual

Tank Num:	015
Container Num:	#15
Year Installed:	1973

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Tank Capacity:	00001250
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	3
Leak Detection:	Visual

Tank Num:	016
Container Num:	#16
Year Installed:	Not reported
Tank Capacity:	00000220
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	3
Leak Detection:	Visual

Tank Num:	017
Container Num:	#17
Year Installed:	1983
Tank Capacity:	00001250
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	3
Leak Detection:	Visual

Tank Num:	018
Container Num:	#18
Year Installed:	1964
Tank Capacity:	00000110
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	3
Leak Detection:	None

Click here for Geo Tracker PDF:

HWP:

EPA Id:	CAD008352957
Cleanup Status:	UNDERGOING CLOSURE
Latitude:	34.11577
Longitude:	-117.9351
Facility Type:	Historical - Non-Operating
Facility Size:	Not reported
Team:	Not reported
Supervisor:	Not reported
Site Code:	300305
Assembly District:	48
Senate District:	22
Public Information Officer:	Not reported
Public Information Officer:	Not reported

Activities:

EPA Id:	CAD008352957
Facility Type:	Historical - Non-Operating
Unit Names:	CONTAIN1, TANKSTR1, TANKSTR2
Event Description:	New Operating Permit - APPLICATION PART B RECEIVED
Actual Date:	04/08/1983

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date: 12/30/1983

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 06/24/1983

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 08/23/1983

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date: 08/29/1983

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - FINAL PERMIT
Actual Date: 12/30/1983

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST RECEIVED
Actual Date: 12/14/1988

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 12/14/1988

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date: 12/30/1988

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - DRAFT PERMIT
Actual Date: 08/29/1983

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 02/07/1983

Closure:
EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Closure - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 09/01/1992

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Closure - PUBLIC COMMENT (BEGIN)
Actual Date: 10/28/1993

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Closure - PUBLIC COMMENT (END)
Actual Date: 10/28/1993

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Closure - CLOSURE PLAN RECEIVED
Actual Date: 04/15/1991

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Closure - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 06/11/1992

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Closure - CLOSURE PLAN APPROVED
Actual Date: 03/02/1994

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Referred for closure to other agency - REFERRED FOR CLOSURE TO OTHER AGENCY
Actual Date: 09/29/2014

Alias:
EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Alias Type: Project Code (Site Code)
Alias: 300305

NPDES:
Npdes Number: CAS000001
Facility Status: Active

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Agency Id:	0
Region:	4
Regulatory Measure Id:	435081
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I024083
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/19/2013
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	NoracPharma
Discharge Address:	405 South Motor Ave
Discharge City:	Azusa
Discharge State:	California
Discharge Zip:	91702
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	189150
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I003426
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	4/3/1992
STATUS CODE NAME:	Active
STATUS DATE:	4/3/1992
PLACE SIZE:	3
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	Robert Summers
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	626-334-2908
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Norac Inc
OPERATOR ADDRESS:	405 S Motor Ave
OPERATOR CITY:	Azusa
OPERATOR STATE:	California
OPERATOR ZIP:	91702
OPERATOR CONTACT NAME:	Robert Summers
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	626-334-2908
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	rsummers@norac.com

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	626-334-2908
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Big Dalton Wash
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	2869-Industrial Organic Chemicals, NEC
SECONDARY SIC:	2834-Pharmaceutical Preparations
TERTIARY SIC:	Not reported

WIP:

Region:	4
File Number:	108.0566
File Status:	**Backlog**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

ICE:

Envirostor ID:	3002194
EPA ID:	CAD008352957
Site Type:	INSPECTION
Facility Status:	No Action

Inspection:

Action Type:	Financial Records Review - Treatment, Storage and Disposal
Action Date:	05/19/2008
Violation Class:	Class 2
RTC Date:	06/20/2008
Action Type:	Financial Records Review - Treatment, Storage and Disposal
Action Date:	06/27/2007

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Violation Class: Class 2, Minor
RTC Date: 06/20/2008

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 04/15/2008
Violation Class: Minor
RTC Date: 05/09/2008

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/20/2007
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 11/25/2014
Violation Class: No Violations
RTC Date: Not reported

V152 **NORAC PHARMA** **CORRACTS** **1000143907**
NNE **405 S MOTOR AVE** **RCRA-TSDF** **91702THNRC405SM**
1/2-1 **AZUSA, CA 91702** **RCRA-LQG**
0.836 mi. **TRIS**
4416 ft. **Site 2 of 3 in cluster V**

Relative: Higher

Actual: 507 ft.

CORRACTS:

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19900601
Action: CA029EP
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19900601
Action: CA049PA
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19900601
Action: CA074LO
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

NORAC PHARMA (Continued) **1000143907**

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19900601
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19980903
Action: CA050RF - RFA Completed, Assessment was an RFA
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20060214
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20040316
Action: CA100 - RFI Imposition
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19990630
Action: CA050RF - RFA Completed, Assessment was an RFA
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: Not reported
Action: CA03191
NAICS Code(s): 325411

NORAC PHARMA (Continued) **1000143907**

Medicinal and Botanical Manufacturing
Original schedule date: 19911001
Schedule end date: Not reported

RCRA-TSDF:
Date form received by agency: 03/01/2014
Facility name: NORAC PHARMA
Facility address: 405 S MOTOR AVE
AZUSA, CA 91702
EPA ID: CAD008352957
Mailing address: S MOTOR AVE
AZUSA, CA 91702
Contact: ROBERT SUMMERS
Contact address: S MOTOR AVE
AZUSA, CA 91702
Contact country: Not reported
Contact telephone: (626) 334-2908
Telephone ext.: 104
Contact email: RSUMMERS@NORACPHARMA.COM
EPA Region: 09
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: S & B PHARMA
Owner/operator address: S MOTOR AVE
AZUSA, CA 91702
Owner/operator country: Not reported
Owner/operator telephone: (626) 334-2908
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/2013
Owner/Op end date: Not reported

Owner/operator name: S & B PHARMA DBA NORAC PHARMA
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator

NORAC PHARMA (Continued) **1000143907**

Owner/Op start date: 01/01/2013
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF

NORAC PHARMA (Continued) **1000143907**

ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

Historical Generators:
Date form received by agency: 01/08/2013
Site name: NORAC PHARMA
Classification: Large Quantity Generator

. Waste code: 122
. Waste name: 122

. Waste code: 133
. Waste name: 133

. Waste code: 134
. Waste name: 134

. Waste code: 211
. Waste name: 211

. Waste code: 212
. Waste name: 212

. Waste code: 213
. Waste name: 213

. Waste code: 214
. Waste name: 214

. Waste code: 331
. Waste name: 331

. Waste code: 343
. Waste name: 343

. Waste code: 351
. Waste name: 351

. Waste code: 352
. Waste name: 352

. Waste code: 551
. Waste name: 551

. Waste code: 741
. Waste name: 741

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

NORAC PHARMA (Continued) **1000143907**

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS

NORAC PHARMA (Continued) **1000143907**

CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P022
. Waste name: CARBON DISULFIDE

. Waste code: P024
. Waste name: BENZENAMINE, 4-CHLORO- (OR) P-CHLORANILINE

. Waste code: P028
. Waste name: BENZENE, (CHLOROMETHYL)- (OR) BENZYL CHLORIDE

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: U004
. Waste name: ACETOPHENONE (OR) ETHANONE, 1-PHENYL-

. Waste code: U006
. Waste name: ACETYL CHLORIDE (C,R,T)

. Waste code: U037
. Waste name: BENZENE, CHLORO- (OR) CHLOROBENZENE

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U151
. Waste name: MERCURY

. Waste code: U169
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

. Waste code: U170
. Waste name: P-NITROPHENOL (I,T) (OR) PHENOL, 4-NITRO-

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

. Waste code: U218
. Waste name: ETHANETHIOAMIDE (OR) THIOACETAMIDE

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

. Waste code: U353
. Waste name: BENZENAMINE, 4-METHYL- (OR) P-TOLUIDINE

Date form received by agency: 11/02/2012
Site name: NORAC PHARMA
Classification: Large Quantity Generator

NORAC PHARMA (Continued) **1000143907**

. Waste code: 122
. Waste name: 122

. Waste code: 133
. Waste name: 133

. Waste code: 134
. Waste name: 134

. Waste code: 211
. Waste name: 211

. Waste code: 212
. Waste name: 212

. Waste code: 213
. Waste name: 213

. Waste code: 214
. Waste name: 214

. Waste code: 331
. Waste name: 331

. Waste code: 343
. Waste name: 343

. Waste code: 351
. Waste name: 351

. Waste code: 352
. Waste name: 352

. Waste code: 551
. Waste name: 551

. Waste code: 741
. Waste name: 741

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

NORAC PHARMA (Continued) **1000143907**

. Waste code: D008
. Waste name: LEAD

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: U102
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER (OR) DIMETHYL PHTHALATE

. Waste code: U123
. Waste name: FORMIC ACID (C,T)

. Waste code: U194
. Waste name: 1-PROPANAMINE (I,T) (OR) N-PROPYLAMINE (I,T)

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U213

NORAC PHARMA (Continued) **1000143907**

. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

. Waste code: U218
. Waste name: ETHANETHIOAMIDE (OR) THIOACETAMIDE

. Waste code: U404
. Waste name: ETHANAMINE, N,N-DIETHYL- (OR) TRIETHYLAMINE

Date form received by agency: 05/28/2010
Site name: NORAC PHARMA
Classification: Large Quantity Generator

. Waste code: 122
. Waste name: 122

. Waste code: 133
. Waste name: 133

. Waste code: 134
. Waste name: 134

. Waste code: 211
. Waste name: 211

. Waste code: 212
. Waste name: 212

. Waste code: 213
. Waste name: 213

. Waste code: 214
. Waste name: 214

. Waste code: 331
. Waste name: 331

. Waste code: 343
. Waste name: 343

. Waste code: 351
. Waste name: 351

. Waste code: 352
. Waste name: 352

. Waste code: 551
. Waste name: 551

. Waste code: 741
. Waste name: 741

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

NORAC PHARMA (Continued) **1000143907**

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS

NORAC PHARMA (Continued) **1000143907**

CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P022
. Waste name: CARBON DISULFIDE

. Waste code: P024
. Waste name: BENZENAMINE, 4-CHLORO- (OR) P-CHLORANILINE

. Waste code: P028
. Waste name: BENZENE, (CHLOROMETHYL)- (OR) BENZYL CHLORIDE

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: U004
. Waste name: ACETOPHENONE (OR) ETHANONE, 1-PHENYL-

. Waste code: U006
. Waste name: ACETYL CHLORIDE (C,R,T)

. Waste code: U037
. Waste name: BENZENE, CHLORO- (OR) CHLOROBENZENE

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U151
. Waste name: MERCURY

. Waste code: U169
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

. Waste code: U170
. Waste name: P-NITROPHENOL (I,T) (OR) PHENOL, 4-NITRO-

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

. Waste code: U218
. Waste name: ETHANETHIOAMIDE (OR) THIOACETAMIDE

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

. Waste code: U353
. Waste name: BENZENAMINE, 4-METHYL- (OR) P-TOLUIDINE

Date form received by agency: 02/29/2008
Site name: NORAC, INC.
Classification: Large Quantity Generator

NORAC PHARMA (Continued) **1000143907**

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D021
. Waste name: CHLOROBENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED

NORAC PHARMA (Continued) **1000143907**

SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P022
. Waste name: CARBON DISULFIDE

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P039
. Waste name: DISULFOTON (OR) PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-[2-(ETHYLTHIO)ETHYL] ESTER

. Waste code: P050
. Waste name: 6,9-METHANO-2,4,3-BENZODIOXATHIEPIN,6,7,8,9,10,10-HEXACHLORO-1,5,5A,6, ,9A-HEXAHYDRO-,3-OXIDE (OR) ENDOSULFAN

. Waste code: P064
. Waste name: METHANE, ISOCYANATO- (OR) METHYL ISOCYANATE

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U007
. Waste name: 2-PROPENAMIDE (OR) ACRYLAMIDE

. Waste code: U008
. Waste name: 2-PROPENOIC ACID (I) (OR) ACRYLIC ACID (I)

. Waste code: U017
. Waste name: BENZAL CHLORIDE (OR) BENZENE, (DICHLOROMETHYL)-

. Waste code: U037
. Waste name: BENZENE, CHLORO- (OR) CHLOROBENZENE

. Waste code: U041
. Waste name: EPICHLOROHYDRIN (OR) OXIRANE, (CHLOROMETHYL)-

. Waste code: U067
. Waste name: ETHANE, 1,2-DIBROMO- (OR) ETHYLENE DIBROMIDE

. Waste code: U068
. Waste name: METHANE, DIBROMO- (OR) METHYLENE BROMIDE

NORAC PHARMA (Continued) **1000143907**

. Waste code: U103
. Waste name: DIMETHYL SULFATE (OR) SULFURIC ACID, DIMETHYL ESTER

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U144
. Waste name: ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE

. Waste code: U147
. Waste name: 2,5-FURANDIONE (OR) MALEIC ANHYDRIDE

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

. Waste code: U169
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

. Waste code: U190
. Waste name: 1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U223
. Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)

Date form received by agency: 02/28/2006
Site name: NORAC, INC.
Classification: Large Quantity Generator

. Waste code: 122
. Waste name: 122

. Waste code: 134
. Waste name: 134

. Waste code: 141
. Waste name: 141

. Waste code: 212
. Waste name: 212

. Waste code: 213
. Waste name: 213

. Waste code: 214
. Waste name: 214

NORAC PHARMA (Continued) **1000143907**

. Waste code: 221
. Waste name: 221

. Waste code: 331
. Waste name: 331

. Waste code: 352
. Waste name: 352

. Waste code: 551
. Waste name: 551

. Waste code: 741
. Waste name: 741

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT

NORAC PHARMA (Continued) **1000143907**

MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U068
. Waste name: METHANE, DIBROMO- (OR) METHYLENE BROMIDE

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

Date form received by agency: 02/27/2004
Site name: NORAC, INC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED

NORAC PHARMA (Continued) **1000143907**

SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U029
. Waste name: METHANE, BROMO- (OR) METHYL BROMIDE

. Waste code: U147
. Waste name: 2,5-FURANDIONE (OR) MALEIC ANHYDRIDE

Date form received by agency: 03/08/2002
Site name: NORAC, INC.
Classification: Large Quantity Generator

. Waste code: 122
. Waste name: 122

. Waste code: 135
. Waste name: 135

. Waste code: 151
. Waste name: 151

. Waste code: 181
. Waste name: 181

. Waste code: 211
. Waste name: 211

. Waste code: 212
. Waste name: 212

. Waste code: 214
. Waste name: 214

. Waste code: 331
. Waste name: 331

. Waste code: 343
. Waste name: 343

. Waste code: 351
. Waste name: 351

. Waste code: 352
. Waste name: 352

NORAC PHARMA (Continued) **1000143907**

. Waste code: 491
. Waste name: 491

. Waste code: 551
. Waste name: 551

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D009
. Waste name: MERCURY

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U135
. Waste name: HYDROGEN SULFIDE (OR) HYDROGEN SULFIDE H2S

Date form received by agency: 10/12/2000

NORAC PHARMA (Continued) **1000143907**

Site name: AZUSA
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: THE NORAC COMPANY, INC
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: NORAC CO INC THE
Classification: Large Quantity Generator

Date form received by agency: 04/01/1996
Site name: THE NORAC COMPANY, INC.
Classification: Large Quantity Generator

Date form received by agency: 04/28/1994
Site name: NORAC COMPANY INC
Classification: Large Quantity Generator

Date form received by agency: 02/26/1992
Site name: THE NORAC CO., INC.
Classification: Large Quantity Generator

Date form received by agency: 07/14/1980
Site name: NORAC CO INC THE
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 43216

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 11343

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

NORAC PHARMA (Continued) **1000143907**

Amount (Lbs): 2785.6

Waste code: D005
Waste name: BARIUM
Amount (Lbs): 100

Waste code: D006
Waste name: CADMIUM
Amount (Lbs): 100

Waste code: D008
Waste name: LEAD
Amount (Lbs): 482

Waste code: D010
Waste name: SELENIUM
Amount (Lbs): 1335

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 482

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 10356

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 17688

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 15460

NORAC PHARMA (Continued) **1000143907**

Waste code: P098
Waste name: POTASSIUM CYANIDE
Amount (Lbs): 6.6

Waste code: U102
Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER
Amount (Lbs): 482

Waste code: U123
Waste name: FORMIC ACID (C,T)
Amount (Lbs): 482

Waste code: U194
Waste name: 1-PROPANAMINE (I,T)
Amount (Lbs): 482

Waste code: U196
Waste name: PYRIDINE
Amount (Lbs): 482

Waste code: U213
Waste name: FURAN, TETRAHYDRO-(I)
Amount (Lbs): 482

Waste code: U218
Waste name: ETHANETHIOAMIDE
Amount (Lbs): 482

Waste code: U404
Waste name: ETHANAMINE, N,N-DIETHYL- (OR) TRIETHYLAMINE
Amount (Lbs): 482

Corrective Action Summary:

Event date: 06/01/1990
Event: CA029EP

Event date: 06/01/1990
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 06/01/1990
Event: CA049PA

Event date: 06/01/1990
Event: CA074LO

Event date: 09/03/1998
Event: RFA Completed, Assessment was an RFA.

Event date: 06/30/1999
Event: RFA Completed, Assessment was an RFA.

Event date: 03/16/2004
Event: RFI Imposition

Event date: 02/14/2006

NORAC PHARMA (Continued) **1000143907**

Event: RFI Workplan Approved

Event date: Not reported
Event: CA03191

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 05/19/2008
Date achieved compliance: 06/20/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/19/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date violation determined: 04/15/2008
Date achieved compliance: 05/09/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/18/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 04/15/2008
Date achieved compliance: 05/09/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/18/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 06/27/2007
Date achieved compliance: 06/20/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/10/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

NORAC PHARMA (Continued) **1000143907**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 06/27/2007
Date achieved compliance: 02/06/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/10/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
Enforcement action date: 06/01/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 09/14/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA

NORAC PHARMA (Continued) **1000143907**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 09/14/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
Enforcement action date: 06/01/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported

NORAC PHARMA (Continued) **1000143907**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
Enforcement action date: 06/01/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 03/15/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 03/15/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 09/14/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported

NORAC PHARMA (Continued) **1000143907**

Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 03/15/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 02/28/1996
Date achieved compliance: 03/08/1996
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 02/28/1996
Date achieved compliance: 03/08/1996
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 11/21/1991
Date achieved compliance: 01/01/1992
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 09/14/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

NORAC PHARMA (Continued) **1000143907**

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 11/21/1991
Date achieved compliance: 01/01/1992
Violation lead agency: EPA
Enforcement action: LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
Enforcement action date: 06/01/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 11/21/1991
Date achieved compliance: 01/01/1992
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 05/28/1991
Date achieved compliance: 02/13/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/12/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 03/31/1989
Date achieved compliance: 03/02/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/24/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H

NORAC PHARMA (Continued) **1000143907**

Area of violation: TSD - Financial Requirements
Date violation determined: 03/31/1989
Date achieved compliance: 03/02/1991
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 06/19/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 03/28/1989
Date achieved compliance: 03/22/1991
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/03/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 265000
Final penalty amount: 90000
Paid penalty amount: 90000

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 03/28/1989
Date achieved compliance: 03/22/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/11/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 03/28/1989
Date achieved compliance: 03/22/1991
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/03/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 265000
Final penalty amount: 90000
Paid penalty amount: 90000

Regulation violated: FR - 270
Area of violation: TSD - General

NORAC PHARMA (Continued) **1000143907**

Date violation determined: 03/28/1989
Date achieved compliance: 03/22/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/11/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 03/28/1989
Date achieved compliance: 03/22/1991
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/10/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 55000
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 03/28/1989
Date achieved compliance: 03/22/1991
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/10/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 55000
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 01/09/1987
Date achieved compliance: 01/09/1987
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 11/26/1986

NORAC PHARMA (Continued) **1000143907**

Date achieved compliance: 01/09/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/27/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 02/10/2016
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/25/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/11/2013
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/24/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/19/2008
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 06/20/2008
Evaluation lead agency: State

Evaluation date: 04/15/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date achieved compliance: 05/09/2008
Evaluation lead agency: State

Evaluation date: 04/15/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Records/Reporting
Date achieved compliance: 05/09/2008
Evaluation lead agency: State

Evaluation date: 06/27/2007
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements

NORAC PHARMA (Continued) **1000143907**

Date achieved compliance: 02/06/2008
Evaluation lead agency: State

Evaluation date: 06/27/2007
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 06/20/2008
Evaluation lead agency: State

Evaluation date: 06/20/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/14/2005
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 01/26/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 09/14/2005
Evaluation lead agency: EPA

Evaluation date: 01/26/2005
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 01/26/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/14/2005
Evaluation lead agency: EPA

Evaluation date: 01/26/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Records/Reporting
Date achieved compliance: 09/14/2005
Evaluation lead agency: EPA

Evaluation date: 02/28/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 01/09/1987
Evaluation lead agency: State

Evaluation date: 02/28/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/08/1996
Evaluation lead agency: State

NORAC PHARMA (Continued) **1000143907**

Evaluation date: 11/21/1991
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 01/01/1992
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 05/28/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 02/13/1992
Evaluation lead agency: State

Evaluation date: 03/31/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/02/1991
Evaluation lead agency: State

Evaluation date: 03/28/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 03/22/1991
Evaluation lead agency: State

Evaluation date: 03/28/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/22/1991
Evaluation lead agency: State

Evaluation date: 11/26/1986
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 01/09/1987
Evaluation lead agency: State

Evaluation date: 11/19/1986
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

TRIS:

Click this hyperlink while viewing on your computer to access
2 additional US_TRIS: record(s) in the EDR Site Report.

153
South
1/2-1
0.852 mi.
4498 ft.

CONCORDE/INTERSPACE BATTERY CORP. **ENVIROSTOR** **S110493750**
2009 SAN BERNADINO ROAD **N/A**
WEST COVINA, CA 91790

Relative:
Lower

Actual:
407 ft.

ENVIROSTOR:
Facility ID: 71002894
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit

CONCORDE/INTERSPACE BATTERY CORP. (Continued) **S110493750**

Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 48
Senate: 22
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.06862
Longitude: -117.9389
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD981632979
Alias Type: EPA Identification Number
Alias Name: 110000478395
Alias Type: EPA (FRS #)
Alias Name: 71002894
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

V154 **BROTHERS PLATING** **ENVIROSTOR** **U001568662**
NNE **334 S. MOTOR AVENUE** **HIST UST** **N/A**
1/2-1 **AZUSA, CA 91702** **EMI**
0.889 mi. **WIP**
4694 ft. **Site 3 of 3 in cluster V**

Relative:
Higher

Actual:
511 ft.

ENVIROSTOR:
Facility ID: 71003297
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit

BROTHERS PLATING (Continued) **U001568662**

Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 48
Senate: 22
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.11695
Longitude: -117.9348
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAL000091566
Alias Type: EPA Identification Number
Alias Name: 71003297
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST UST:
File Number: 00027EED
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027EED.pdf
Region: STATE
Facility ID: 00000047254
Facility Type: Other
Other Type: Not reported
Contact Name: RAYMOND MEDINA
Telephone: 8183343413
Owner Name: RAYMOND AND IGNACIO MEDINA
Owner Address: 334 S. MOTOR AVE
Owner City,St,Zip: AZUSA, CA 91702
Total Tanks: 0001

Tank Num: 001

BROTHERS PLATING (Continued) **U001568662**

Container Num: 1
Year Installed: 1982
Tank Capacity: 00000600
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

EMI:

Year: 1987
County Code: 19
Air Basin: SC
Facility ID: 44584
Air District Name: SC
SIC Code: 3471
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 44584
Air District Name: SC
SIC Code: 3471
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 1
Part. Matter 10 Micrometers and Smllr Tons/Yr: 1

WIP:

Region: 4
File Number: 108.0953
File Status: Historical
Staff: DRASMUSS
Facility Suite: Not reported

W155 **AZUSA LAND RECLAMATION CO** **ENVIROSTOR** **S103988632**
NE **1201 WEST GLADSTONE BOULEVARD** **CHMIRS** **N/A**
1/2-1 **AZUSA, CA 91702** **ENF**
0.954 mi.
5035 ft. **Site 1 of 2 in cluster W**

Relative:
Higher

Actual:
505 ft.

ENVIROSTOR:

Facility ID:	19490002
Status:	Refer: RWQCB
Status Date:	03/09/1995
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Chatsworth
Assembly:	48
Senate:	22
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.11442
Longitude:	-117.9314
APN:	8615011004
Past Use:	NONE SPECIFIED
Potential COC:	* HOUSEHOLD WASTES * UNSPECIFIED ACID SOLUTION * UNSPECIFIED ALKALINE SOLUTIONS * WASTE OIL & MIXED OIL * BAGHOUSE WASTE * OTHER PESTICIDE CONTAINERS, 30 GALLONS OR MORE * UNSPECIFIED ORGANIC LIQUID MIXTURE
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	8615011004
Alias Type:	APN
Alias Name:	CAD009007626
Alias Type:	EPA Identification Number
Alias Name:	110001150227
Alias Type:	EPA (FRS #)
Alias Name:	19490002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Discovery
Completed Date:	10/18/1980
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	05/10/1995
Comments:	This ia a RWQCB SITE, NFA FOR DTSC.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

AZUSA LAND RECLAMATION CO (Continued) **S103988632**

Completed Document Type: Site Screening
Completed Date: 11/17/1986
Comments: EPA Federal Investigation Team (FIT) E&E completed PA/SI on the site and recommend further investigation. State recommendation is Preliminary Assessment -- record search is required to determine site status.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CHMIRS:

OES Incident Number:	910
OES notification:	Not reported
OES Date:	6/29/1994
OES Time:	05:31:31 PM
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	YES
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	transit mix concrete company
Containment:	Not reported
What Happened:	Not reported
Type:	OTHER
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported

AZUSA LAND RECLAMATION CO (Continued) **S103988632**

Year:	1994
Agency:	transit mix concrete company
Incident Date:	1030 6/29/94
Admin Agency:	Not reported
Amount:	150 gallons
Contained:	NO
Site Type:	OTHER
E Date:	Not reported
Substance:	oil
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	hydraulic shovel blew line and pumped out oil before being shutdown.
OES Incident Number:	9-5187
OES notification:	12/07/1999
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported

AZUSA LAND RECLAMATION CO (Continued) **S103988632**

Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1999
Agency:	Southdown
Incident Date:	12/7/199912:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Yes
Site Type:	Merchant/Business
E Date:	Not reported
Substance:	Hydralic Fuel
Gallons:	50
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	O ring was faulty on a hose

ENF:

Region:	4
Facility Id:	208348
Agency Name:	Azusa Land Reclamation Co.
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class III - nonhazardous solid wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	34.114347
Place Longitude:	-117.928659
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported

AZUSA LAND RECLAMATION CO (Continued) **S103988632**

NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	1
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	4B190305001
Reg Measure Id:	134637
Reg Measure Type:	WDR
Region:	4
Order #:	88-133
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	2000
Status:	Historical
Status Date:	02/07/2012
Effective Date:	11/28/1988
Expiration/Review Date:	12/31/2012
Termination Date:	09/02/2009
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	59 - Land Disposal Site not paying tipping fee
Direction/Voice:	Passive
Enforcement Id(EID):	228148
Region:	4
Order / Resolution Number:	R4-1999-0119
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	02/17/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	02/17/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	CAO No. 99-119 issued 2/17/00 contains a time schedule.

AZUSA LAND RECLAMATION CO (Continued) **S103988632**

Description:	CAO No. 99-119 issued 2/17/00 contains a time schedule for assessment & cleanup of contaminated soil & groundwater at the facility.
Program:	LNDISP
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	4
Facility Id:	208348
Agency Name:	Azusa Land Reclamation Co.
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class III - nonhazardous solid wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	34.114347
Place Longitude:	-117.928659
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	1
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISP
Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	4B190305001
Reg Measure Id:	134637
Reg Measure Type:	WDR
Region:	4
Order #:	88-133
Npdes# CA#:	Not reported
Major-Minor:	Not reported

AZUSA LAND RECLAMATION CO (Continued) **S103988632**

Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	2000
Status:	Historical
Status Date:	02/07/2012
Effective Date:	11/28/1988
Expiration/Review Date:	12/31/2012
Termination Date:	09/02/2009
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	59 - Land Disposal Site not paying tipping fee
Direction/Voice:	Passive
Enforcement Id(EID):	220395
Region:	4
Order / Resolution Number:	CAO
Enforcement Action Type:	Clean-up and Abatement Order
Effective Date:	02/28/1995
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	02/28/1995
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	CAO - 4B190305001
Description:	REQUIRES OPERATOR TO SUBMIT EVALUTION MONITORING PROGRAM FOR E. O. REVIEW AND APPROVAL.
Program:	LNDISP
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

W156 **CEMEX CONSTRUCTION MATERIALS PACIFIC** **RCRA-SQG** **1000376530**
NE **1201 W GLADSTONE ST** **WMUDS/SWAT** **CAD009007626**
1/2-1 **AZUSA, CA 91702** **HIST UST**
0.954 mi. **US AIRS**
5035 ft. **Site 2 of 2 in cluster W** **FINDS**
HWP
Relative: **WDS**
Higher **ECHO**

Actual: **505 ft.**

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	AZUSA LAND RECLAMATION CO INC
Facility address:	1201 W GLADSTONE AVENUE

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

AZUSA, CA 91702
EPA ID: CAD009007626
Mailing address: PO BOX 949
AZUSA, CA 91702
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Historical Generators:
Date form received by agency: 09/01/1996
Site name: AZUSA LAND RECLAMATION CO INC
Classification: Small Quantity Generator

Date form received by agency: 02/28/1992
Site name: AZUSA LAND RECLAMATION
Classification: Large Quantity Generator

Date form received by agency: 06/13/1991
Site name: AZUSA LAND RECLAMATION CO INC
Classification: Large Quantity Generator

Date form received by agency: 08/01/1985
Site name: AZUSA LAND RECLAMATION CO INC
Classification: Large Quantity Generator

Violation Status: No violations found

WMUDS/SWAT:
Edit Date: Not reported
Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.
Primary Waste: SLDWST
Primary Waste Type: Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Base Meridian: SB
NPID: Not reported
Tonnage: 82
Regional Board ID: 59-102
Municipal Solid Waste: True
Superorder: True
Open To Public: False
Waste List: True
Agency Type: Private
Agency Name: USA WASTE
Agency Department: VICE PRESIDENT AND GENERAL MAN
Agency Address: 1211 W. GLADSTONE ST.
Agency City,St,Zip: AZUSA CA 91702
Agency Contact: JOHN WORKMAN
Agency Telephone: 6263346719
Land Owner Name: AZUSA LAND RECLAMATION CO. INC
Land Owner Address: P.O. BOX 949 (1201 GLADSTONE)
Land Owner City,St,Zip: AZUSA, CA 91702
Land Owner Contact: MR. FRANK SHEETS, III
Land Owner Phone: 8183340719
Region: 4
Facility Type: Solid Waste Site-Class III - Landfills for non hazardous solid wastes.
Facility Description: Not reported

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Facility Telephone:	6263340719
SWAT Facility Name:	AZUSA LAND RECLAMATION CO. INC.
Primary SIC:	4953
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	True
Solid Waste Assessment Test Program:	True
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	AZUSA LAND RECLAMATION CO. INC
Threat to Water Quality:	Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to toxic substances.
Sub Chapter 15:	True
Regional Board Project Officer:	Not reported
Number of WMUDS at Facility:	2
Section Range:	01S10W
RCRA Facility:	No
Waste Discharge Requirements:	A
Self-Monitoring Rept. Frequency:	Quarterly Submittal
Waste Discharge System ID:	4B190305001
Solid Waste Information ID:	19-AA-0013

Edit Date:	Not reported
Complexity:	Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.
Primary Waste:	CNSOIL
Primary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	True
Agency Type:	Private
Agency Name:	USA WASTE
Agency Department:	Not reported
Agency Address:	1211 W. GLADSTONE AVE.
Agency City,St,Zip:	AZUSA CA 91702
Agency Contact:	JOHN WORKMAN
Agency Telephone:	6263340719
Land Owner Name:	Not reported

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Land Owner Address: Not reported
Land Owner City,St,Zip: Not reported
Land Owner Contact: Not reported
Land Owner Phone: Not reported
Region: 4
Facility Type: Solid Waste Site-Class III - Landfills for non hazardous solid wastes.
Facility Description: Not reported
Facility Telephone: 8183340719
SWAT Facility Name: Not reported
Primary SIC: 9511
Secondary SIC: Not reported
Comments: Not reported
Last Facility Editors: Not reported
Waste Discharge System: True
Solid Waste Assessment Test Program: False
Toxic Pits Cleanup Act Program: False
Resource Conservation Recovery Act: False
Department of Defence: False
Solid Waste Assessment Test Program: Not reported
Threat to Water Quality: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.
Sub Chapter 15: True
Regional Board Project Officer: Not reported
Number of WMUDS at Facility: 1
Section Range: Not reported
RCRA Facility: No
Waste Discharge Requirements: A
Self-Monitoring Rept. Frequency: Quarterly Submittal
Waste Discharge System ID: 4B190305002
Solid Waste Information ID: Not reported

HIST UST:
File Number: 00028DBE
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028DBE.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Click here for Geo Tracker PDF:

US AIRS (AFS):

Envid:	1000376530
Region Code:	09
County Code:	CA037
Programmatic ID:	AIR CASCA00006037C0536
Facility Registry ID:	110001150227
D and B Number:	Not reported
Facility Site Name:	AZUSA LAND RECLAMATION
Primary SIC Code:	4953
NAICS Code:	562920
Default Air Classification Code:	MAJ
Facility Type of Ownership Code:	POF
Air CMS Category Code:	TVM
HPV Status:	Not reported

US AIRS (AFS):

Region Code:	09
Programmatic ID:	AIR CASCA00006037C0536
Facility Registry ID:	110001150227
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2015-07-16 00:00:00
Activity Status Date:	2015-09-09 17:15:45
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Active

Region Code:	09
Programmatic ID:	AIR CASCA00006037C0536
Facility Registry ID:	110001150227
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2015-08-28 00:00:00
Activity Status Date:	2015-09-09 17:21:02
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Active

Region Code:	09
Programmatic ID:	AIR CASCA00006037C0536
Facility Registry ID:	110001150227
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	1997-08-29 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

Region Code:	09
Programmatic ID:	AIR CASCA00006037C0536
Facility Registry ID:	110001150227

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-12-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-08-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-11-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-07-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-08-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-04-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-02-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-09-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-06-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Activity Date: 2009-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-08-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-08-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-08-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-02-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-05-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-09-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-02-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-06-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-02-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-08-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-09-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Activity Date: 2013-09-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-07-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-07-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-09-18 00:00:00
Activity Status Date: 2015-09-09 17:20:15
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-02-20 00:00:00
Activity Status Date: 2015-09-09 17:17:24
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-07-16 00:00:00
Activity Status Date: 2015-09-09 17:15:45
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-08-28 00:00:00
Activity Status Date: 2015-09-09 17:21:02
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-02-10 00:00:00
Activity Status Date: 2016-05-11 18:56:13
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-12-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1999-08-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-04-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-11-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-07-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-08-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Activity Date: 2007-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-04-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-02-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-09-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-02-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-06-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-02-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-08-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-08-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-08-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-02-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-05-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Activity Date: 2011-09-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-06-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-09-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-09-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-02-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-08-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-09-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-09-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-02-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-07-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C0536
Facility Registry ID: 110001150227
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-07-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

FINDS:

Registry ID: 110055898328

Environmental Interest/Information System
HAZARDOUS AIR POLLUTANT MAJOR

STATE MASTER

Registry ID: 110001150227

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

HAZARDOUS AIR POLLUTANT MAJOR

RCRAInfo is a national information system that supports the Resource

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

AIR MAJOR

US EPA RACT/BACT/LAER Clearinghouse (RBLC) database contains case-specific information on the "Best Available" air pollution technologies that have been required to reduce the emission of air pollutants from stationary sources (e.g., power plants, steel mills, chemical plants, etc.). RACT, or Reasonably Available Control Technology, is required on existing sources in areas that are not meeting national ambient air quality standards. BACT, or Best Available Control Technology, is required on major new or modified sources in clean areas. LAER, or Lowest Achievable Emission Rate, is required on major new or modified sources in non-attainment areas.

GREENHOUSE GAS REPORTER

HWP:

EPA Id:	CAD009007626
Cleanup Status:	KNOWN GENERATORS
Latitude:	34.11432
Longitude:	-117.9252
Facility Type:	Historical - Non-Operating
Facility Size:	Not reported
Team:	Not reported
Supervisor:	Not reported
Site Code:	Not reported
Assembly District:	48
Senate District:	22
Public Information Officer:	Not reported
Public Information Officer:	Not reported

Alias:

EPA Id:	CAD009007626
Facility Type:	Historical - Non-Operating
Alias Type:	Envirostor ID Number
Alias:	19490002
EPA Id:	CAD009007626
Facility Type:	Historical - Non-Operating
Alias Type:	FRS
Alias:	110001150227

WDS:

Facility ID:	Los Angeles River 190305001
Facility Type:	Solid Waste Site-Class III - Landfills for non hazardous solid wastes.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	Not reported
Subregion:	4
Facility Telephone:	6263347018

CEMEX CONSTRUCTION MATERIALS PACIFIC (Continued) **1000376530**

Facility Contact:	Ralph Chavira
Agency Name:	AZUSA LAND RECLAMATION CO.
Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Private
SIC Code:	4953
SIC Code 2:	Not reported
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Primary Waste:	SLDWST
Waste Type2:	Not reported
Waste2:	Solid Wastes
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	No reclamation requirements associated with this facility.
POTW:	The facility is not a POTW.
Treat To Water:	Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to toxic substances.
Complexity:	Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

ECHO:

Envid:	1000376530
Registry ID:	110001150227
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110001150227

157
ENE
1/2-1
0.994 mi.
5247 ft.

Relative:
Higher

Actual:
498 ft.

MEC YARD
601 S VINCENT AVE
AZUSA, CA 91702

RCRA-SQG **1000257023**
ENVIROSTOR **CAD046452066**
SLIC
AST
SWEEPS UST
HIST UST
FINDS
EMI
HAZNET
LOS ANGELES CO. HMS

RCRA-SQG:

MEC YARD (Continued) **1000257023**

Date form received by agency: 08/08/2011
Facility name: 601 SOUTH VINCENT AVE AZUSA CALIFORNIA 91702
Facility address: 601 S VINCENT AVE
AZUSA, CA 91702
EPA ID: CAD046452066
Mailing address: 100 S CHAPARRAL CT
STE 110
ANAHEIM, CA 92808
Contact: DONALD B BACA
Contact address: 100 S CHAPARRAL CT STE 110
ANAHEIM, CA 92808
Contact country: US
Contact telephone: 714-685-1501
Contact email: DBACA@TERRAENT.COM
EPA Region: 09
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: TRI PRODUCTS
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/25/2011
Owner/Op end date: Not reported

Owner/operator name: INDVEST LP
Owner/operator address: 11812 SAN VICENTE BLVD STE 510
LOS ANGELES, CA 90049
Owner/operator country: US
Owner/operator telephone: 310-207-4144
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 02/25/2002
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No

MEC YARD (Continued) **1000257023**

Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Universal Waste Summary:
Waste type: Other
Accumulated waste on-site: Not reported
Generated waste on-site: Yes

. Waste code: 135
. Waste name: 135

. Waste code: 352
. Waste name: 352

. Waste code: D001
. Waste name: IGNITABLE WASTE

Historical Generators:
Date form received by agency: 05/17/2011
Site name: TRI PRODUCTS INC
Classification: Not a generator, verified

Date form received by agency: 09/01/1996
Site name: TUBING SEAL CAP COMPANY
Classification: Small Quantity Generator

Date form received by agency: 02/27/1992
Site name: TUBING SEAL CAP CO
Classification: Large Quantity Generator

Date form received by agency: 04/09/1990
Site name: TUBING SEAL CAP COMPANY
Classification: Large Quantity Generator

Date form received by agency: 09/10/1980
Site name: TUBING SEAL CAP COMPANY
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 11/28/1990
Date achieved compliance: 04/17/1991
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

MEC YARD (Continued) **1000257023**

Area of violation: Generators - General
Date violation determined: 11/28/1990
Date achieved compliance: 04/17/1991
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/23/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 11/28/1990
Date achieved compliance: 04/17/1991
Violation lead agency: EPA
Enforcement action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement action date: 01/23/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 11/28/1990
Date achieved compliance: 04/17/1991
Violation lead agency: EPA
Enforcement action: EPA TO STATE ADMINISTRATIVE REFERRAL
Enforcement action date: 01/23/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 11/28/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 04/17/1991
Evaluation lead agency: EPA

Evaluation date: 11/28/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/17/1991
Evaluation lead agency: EPA

ENVIROSTOR:
Facility ID: 71002411
Status: Refer: Other Agency

MEC YARD (Continued) **1000257023**

Status Date: 03/29/2006
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 48
Senate: 22
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.11188
Longitude: -117.9262
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD046452066
Alias Type: EPA Identification Number
Alias Name: 110018952917
Alias Type: EPA (FRS #)
Alias Name: 71002411
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 03/29/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase I Verification
Completed Date: 03/29/2006
Comments: Inspection report sent on 3/29/2006

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**

MEC YARD (Continued) **1000257023**

Status Date:	07/25/2012
Global Id:	SL603798907
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.111681
Longitude:	-117.924339
Case Type:	Cleanup Program Site
Case Worker:	RE
Local Agency:	Not reported
RB Case Number:	108.1029A
File Location:	Regional Board
Potential Media Affected:	Aquifer used for drinking water supply, Soil, Soil Vapor
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

AST:

Certified Unified Program Agencies:	Not reported
Owner:	Foothill Transit Constructors
Total Gallons:	Not reported
CERSID:	10424911
Facility ID:	LACoFA0028409
Business Name:	Foothill Transit Constructors
Phone:	(626)610-0300
Fax:	Not reported
Mailing Address:	1300 West Optical Dr, STE 500
Mailing Address City:	Azusa
Mailing Address State:	CA
Mailing Address Zip Code:	91702
Operator Name:	Richard Burgos
Operator Phone:	(909)962-6001
Owner Phone:	(626)610-0300
Owner Mail Address:	1300 W. Optical Dr, STE 500
Owner State:	CA
Owner Zip Code:	91702
Owner Country:	United States
Property Owner Name:	Foothill Transit Constructors (Renter)
Property Owner Phone:	Not reported
Property Owner Mailing Address:	601 S Vincent Ave
Property Owner City:	Azusa
Property Owner Stat :	CA
Property Owner Zip Code:	91702
Property Owner Country:	United States
EPAID:	CAL000384438

SWEEPS UST:

Status:	Active
Comp Number:	5633
Number:	9
Board Of Equalization:	44-007959
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-005633-000001

MEC YARD (Continued) **1000257023**

Tank Status: A
Capacity: 1500
Active Date: 01-08-93
Tank Use: HAZARDOUS
STG: P
Content: Not reported
Number Of Tanks: 1

HIST UST:
File Number: 000266B9
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000266B9.pdf
Region: STATE
Facility ID: 00000041329
Facility Type: Other
Other Type: MANUFACTURING
Contact Name: ROBERT SHAFER
Telephone: 8183340361
Owner Name: FAIRCHILD INDUSTRIES
Owner Address: Not reported
Owner City,St,Zip: GERMANTOWN, MD 20767
Total Tanks: 0005

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 003
Container Num: 3
Year Installed: 1983
Tank Capacity: 00001500
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 004
Container Num: 4
Year Installed: 1979
Tank Capacity: 00000100
Tank Used for: WASTE
Type of Fuel: 06
Container Construction Thickness: 6"
Leak Detection: None

MEC YARD (Continued) **1000257023**

Tank Num: 005
Container Num: 5
Year Installed: Not reported
Tank Capacity: 00000050
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: 6
Leak Detection: None

Click here for Geo Tracker PDF:

FINDS:

Registry ID: 110055741283

Environmental Interest/Information System
STATE MASTER

EMI:

Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 59301
Air District Name: SC
SIC Code: 3469
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 1995
County Code: 19
Air Basin: SC
Facility ID: 59301
Air District Name: SC
SIC Code: 3469
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 10
Reactive Organic Gases Tons/Yr: 5
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 2006
County Code: 19

MEC YARD (Continued) **1000257023**

Air Basin:	SC
Facility ID:	148457
Air District Name:	SC
SIC Code:	2392
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.4564315352697095435
Reactive Organic Gases Tons/Yr:	.396
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2007
County Code:	19
Air Basin:	SC
Facility ID:	148457
Air District Name:	SC
SIC Code:	2392
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.4564315352697095435
Reactive Organic Gases Tons/Yr:	.396
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HAZNET:

envid:	1000257023
Year:	2014
GEPAID:	CAL000384438
Contact:	DAVID BUFO
Telephone:	8053151532
Mailing Name:	Not reported
Mailing Address:	4650 BUSINESS CENTER DRIVE
Mailing City,St,Zip:	FAIRFIELD, CA 945340000
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	4.19
Cat Decode:	Other organic solids
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles

envid:	1000257023
Year:	2014
GEPAID:	CAL000384438
Contact:	DAVID BUFO

MEC YARD (Continued) **1000257023**

Telephone: 8053151532
Mailing Name: Not reported
Mailing Address: 4650 BUSINESS CENTER DRIVE
Mailing City,St,Zip: FAIRFIELD, CA 945340000
Gen County: Los Angeles
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Waste Category: Waste oil and mixed oil
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.152
Cat Decode: Waste oil and mixed oil
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

envid: 1000257023
Year: 2014
GEPAID: CAL000384438
Contact: DAVID BUFO
Telephone: 8053151532
Mailing Name: Not reported
Mailing Address: 4650 BUSINESS CENTER DRIVE
Mailing City,St,Zip: FAIRFIELD, CA 945340000
Gen County: Los Angeles
TSD EPA ID: ARD069748192
TSD County: 99
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.1815
Cat Decode: Off-specification, aged or surplus organics
Method Decode: Incineration--Thermal Destruction Other Than Use As A Fuel
Facility County: Los Angeles

envid: 1000257023
Year: 2014
GEPAID: CAL000384438
Contact: DAVID BUFO
Telephone: 8053151532
Mailing Name: Not reported
Mailing Address: 4650 BUSINESS CENTER DRIVE
Mailing City,St,Zip: FAIRFIELD, CA 945340000
Gen County: Los Angeles
TSD EPA ID: ARD069748192
TSD County: 99
Waste Category: Other organic solids
Disposal Method: Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 1.075
Cat Decode: Other organic solids
Method Decode: Incineration--Thermal Destruction Other Than Use As A Fuel
Facility County: Los Angeles

envid: 1000257023
Year: 2013
GEPAID: CAL000384438
Contact: David Bufo
Telephone: 8053151532

MEC YARD (Continued) **1000257023**

Mailing Name: Not reported
Mailing Address: 2800 OLYMPIC PKWY
Mailing City,St,Zip: CHULA VISTA, CA 91915
Gen County: Los Angeles
TSD EPA ID: NVT330010000
TSD County: 99
Waste Category: Not reported
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: Not reported
Cat Decode: Not reported
Method Decode: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County: Not reported

Click this hyperlink while viewing on your computer to access
2 additional CA_HAZNET: record(s) in the EDR Site Report.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 009052-005633
Facility Type: 0
Facility Status: Removed
Area: 6A
Permit Number: 00000171T
Permit Status: Removed

Count: 9 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
AZUSA	S107530220		1900 AZUSA & SAN GABRIEL CANYO		CDL
AZUSA	S102628475	UNOCAL #5411	295 AZUSA AVE S	91702	LUST, HIST CORTESE
AZUSA	S103441502	AZUSA DUMP OWL 4X J09CA002500	AZUSA	91702	LUST, WMUDS/SWAT, HIST Cal-Sites
BALDWIN PARK	S100833442	SAN GABRIEL GROUND WATER BASIN 2	BALDWIN PARK AREA	91706	CA BOND EXP. PLAN
IRWINDALE	S118565118	IRWINDALE CANYON BUSINESS PARK	4832-4910 AZUSA CANYON RD	91706	LA Co. Site Mitigation
IRWINDALE	S118597102	IRWINDALE PIT #2	OLIVE ST BETWEEN AZUSA CANYON	91706	NPDES
LOS ANGELES COUNTY	S107541010		VEH STOP: AZUSA & AROMA AVE		CDL
WEST COVINA	S100714948	SAN GABRIEL VALLEY MOSQUITO ABATEM	1145 & 1133 NORTH AZUSA CANYRO	91790	ENVIROSTOR
WEST COVINA	S107528471		140 W AZUSA AVE (EL DORADO MOT	91790	CDL

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 09/14/2016
Date Data Arrived at EDR: 10/04/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/04/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/20/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/20/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/27/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/09/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/09/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 03/30/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 51

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/02/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/02/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/15/2016
Date Data Arrived at EDR: 08/16/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 50

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/16/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/13/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 31

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/13/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015
Date Data Arrived at EDR: 02/19/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 105

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 112
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/26/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Semi-Annually

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/13/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 31

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/13/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/11/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35
Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/26/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67
Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015
Date Data Arrived at EDR: 02/04/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 120

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 119

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/02/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 02/29/2016
Date Data Arrived at EDR: 03/07/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/22/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/21/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 08/25/2016
Date Data Arrived at EDR: 08/26/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 49

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/10/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 08/05/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 08/31/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/02/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 05/10/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2016
Date Data Arrived at EDR: 09/27/2016
Date Made Active in Reports: 10/20/2016
Number of Days to Update: 23

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/25/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 37

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/27/2016
Date Data Arrived at EDR: 06/28/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 87

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/27/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/03/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/26/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/13/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 31

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/13/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/13/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 31

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/13/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 10/20/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 07/12/2016
Date Data Arrived at EDR: 08/17/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 65

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/08/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 09/06/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133
Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/26/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74
Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/01/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 99
Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 08/12/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/27/2016
Date Data Arrived at EDR: 08/05/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 77
Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/11/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/05/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/06/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/03/2016
Date Data Arrived at EDR: 10/05/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 16
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/05/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/26/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/21/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/07/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 148

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/20/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 88

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 88

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/05/2016
Date Data Arrived at EDR: 09/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 22

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/01/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/27/2016
Date Data Arrived at EDR: 06/28/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 51

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/27/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 37

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 09/23/2016
Date Made Active in Reports: 10/24/2016
Number of Days to Update: 31

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/24/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 42

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 11/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/10/2016
Date Data Arrived at EDR: 08/15/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 51

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/10/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 10/14/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 58

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 10/12/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Annually

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/23/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/11/2016
Date Data Arrived at EDR: 07/13/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/12/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 37

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/16/2016
Date Data Arrived at EDR: 05/18/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 36

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/16/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 37

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 38

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 59

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/23/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

ICE: ICE
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 43

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/23/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 81

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/18/2016
Date Data Arrived at EDR: 09/20/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/20/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 07/07/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 37

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/07/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 27

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 18

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 07/20/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 60

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 09/06/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/24/2016
Date Made Active in Reports: 10/10/2016
Number of Days to Update: 47

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/01/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 04/08/2016
Date Data Arrived at EDR: 05/03/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 50

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 05/24/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 75

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/13/2016
Date Data Arrived at EDR: 07/19/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 21

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/08/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 41

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 10/13/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 07/25/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 08/04/2016
Date Data Arrived at EDR: 08/08/2016
Date Made Active in Reports: 10/18/2016
Number of Days to Update: 71

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 05/27/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 26

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 09/08/2016
Date Data Arrived at EDR: 09/09/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 35

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/05/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 37

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/15/2016
Date Data Arrived at EDR: 07/19/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 78

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/18/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 34
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/23/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 28
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 10/07/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/18/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 32
Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 04/07/2016
Date Data Arrived at EDR: 04/26/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 36
Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 32

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 08/29/2016
Date Data Arrived at EDR: 08/31/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 44

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 08/22/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 07/25/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/15/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 51

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/08/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 08/03/2016
Date Data Arrived at EDR: 08/15/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 53

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/08/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/09/2016
Date Made Active in Reports: 10/11/2016
Number of Days to Update: 63

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/09/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 07/18/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 81

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 07/13/2016
Date Data Arrived at EDR: 07/18/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 21

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 07/06/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 43

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/04/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 07/06/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 43

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/04/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/19/2016
Number of Days to Update: 42

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 08/08/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 09/21/2016
Date Data Arrived at EDR: 09/22/2016
Date Made Active in Reports: 10/18/2016
Number of Days to Update: 26
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/18/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 43
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 15
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 57
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 43
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/03/2016
Date Data Arrived at EDR: 08/08/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 60

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 43

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/15/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 29

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/22/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 57

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 10/18/2016
Number of Days to Update: 19

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 07/10/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 28

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/01/2016
Date Data Arrived at EDR: 07/05/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 44

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 16

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 08/12/2016
Date Data Arrived at EDR: 08/16/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 49

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 06/28/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/10/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Quarterly

Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 06/28/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 67
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/29/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/11/2016
Number of Days to Update: 27
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 08/24/2016
Date Made Active in Reports: 10/11/2016
Number of Days to Update: 48
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 08/03/2016
Date Data Arrived at EDR: 08/05/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 61
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/10/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/12/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/03/2016
Date Made Active in Reports: 09/09/2016
Number of Days to Update: 37

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/20/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

FRONTIER IRWINDALE
5010 AZUSA CANYON ROAD
BALDWIN PARK, CA 91706

TARGET PROPERTY COORDINATES

Latitude (North):	34.10425 - 34° 6' 15.30''
Longitude (West):	117.941862 - 117° 56' 30.70''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	413124.1
UTM Y (Meters):	3773920.8
Elevation:	449 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5619056 BALDWIN PARK, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

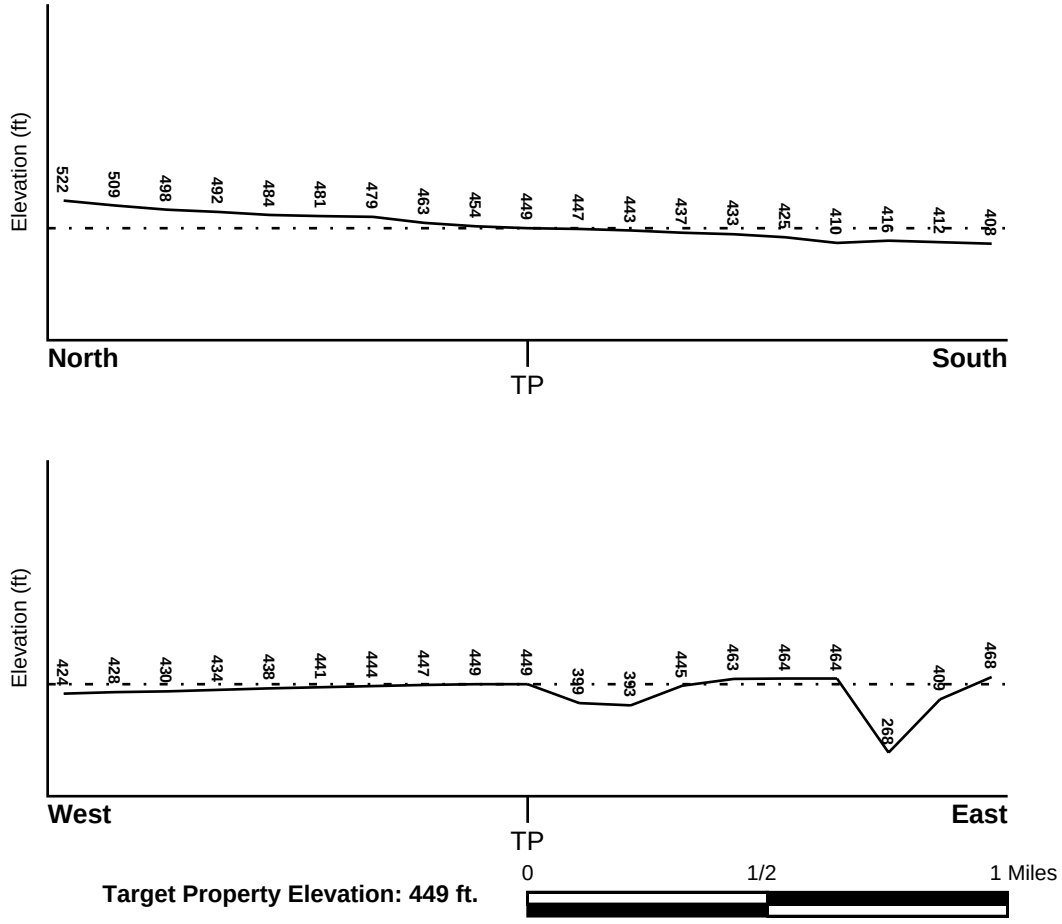
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1700F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BALDWIN PARK	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1/2 - 1 Mile SSE
Site Name:	Baxter Healthcare Corp. Site
Site EPA ID Number:	CAD000628099
Groundwater Flow Direction:	Southwest
Measured Depth to Water:	196 feet in a well located one-quarter of a mile west of the site.
Hydraulic Connection:	Information is not available about the hydraulic connection between aquifer(s) under the site.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
sandy loam
gravelly - sandy loam
silt loam
clay
fine sand
gravelly - sand
sand
fine sandy loam

Surficial Soil Types:
sandy loam
gravelly - sandy loam
silt loam
clay
fine sand
gravelly - sand
sand
fine sandy loam

Shallow Soil Types:
fine sandy loam
gravelly - loam
sandy clay
sandy clay loam
clay
silty clay
sand

Deeper Soil Types:
gravelly - sandy loam
sandy loam
very gravelly - sandy loam
stratified
very fine sandy loam
weathered bedrock
sand
gravelly - fine sandy loam
silty clay loam
clay loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

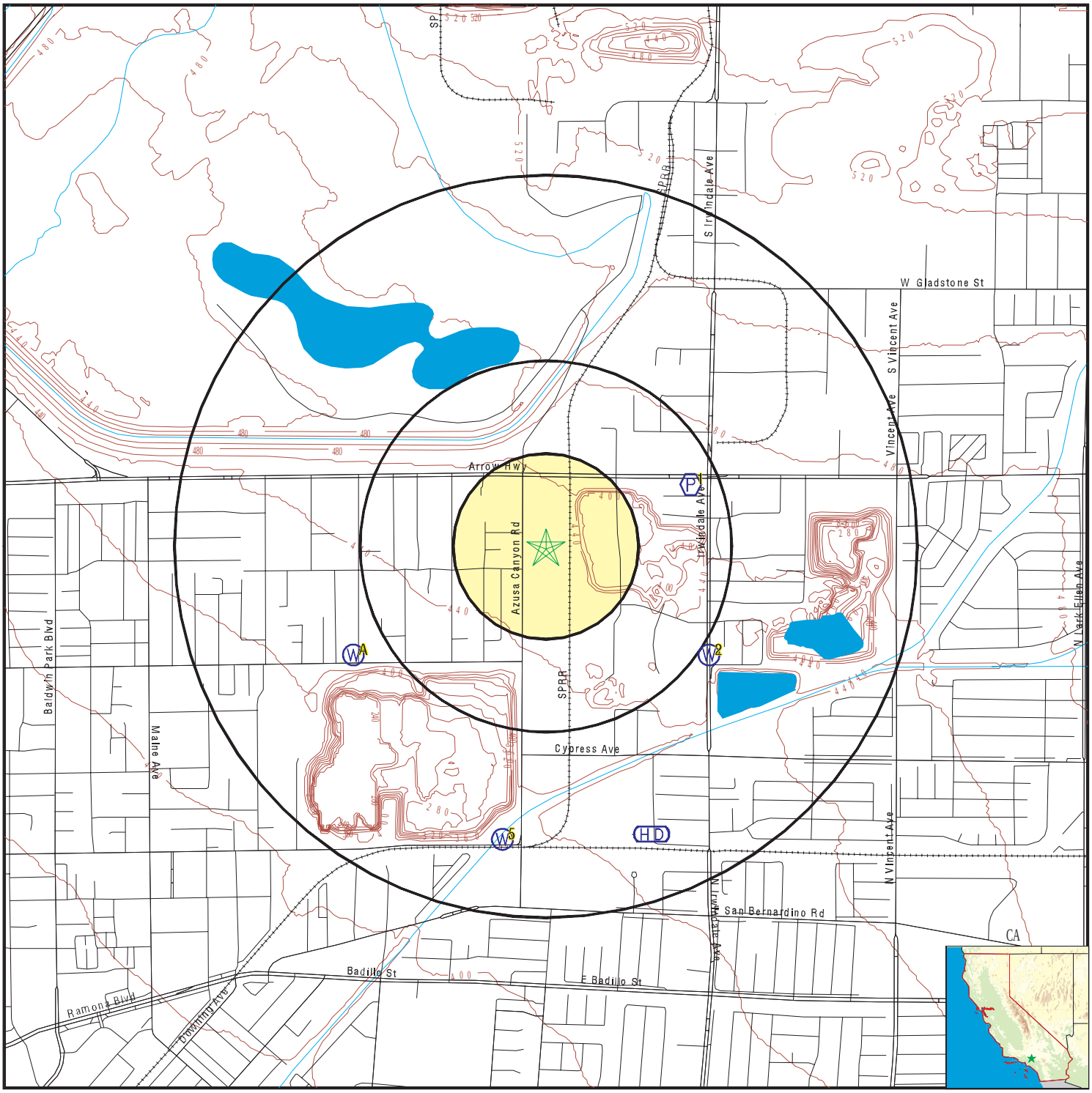
MAP ID	WELL ID	LOCATION FROM TP
1	CA1900018	1/4 - 1/2 Mile ENE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	1246	1/2 - 1 Mile ESE
A3	1252	1/2 - 1 Mile WSW
A4	1251	1/2 - 1 Mile WSW
5	CADW60000005162	1/2 - 1 Mile South

PHYSICAL SETTING SOURCE MAP - 4765772.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Frontier Irwindale	CLIENT:	ATC Group Services LLC
ADDRESS:	5010 Azusa Canyon Road Baldwin Park CA 91706	CONTACT:	Steve Anderson
LAT/LONG:	34.10425 / 117.941862	INQUIRY #:	4765772.2s
		DATE:	October 28, 2016 9:23 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
ENE
1/4 - 1/2 Mile
Higher | **FRDS PWS** | **CA1900018**

Epa region:	09	State:	CA
Pwsid:	CA1900018		
Pwsname:	LIVINGSTON-GRAHAM HANSON AGGREGATES		
City served:	Not Reported	State served:	CA
Zip served:	Not Reported	Fips county:	06037
Status:	Active	Pop srvd:	25
Pwssvcconn:	1	Source:	Groundwater
Pws type:	NTNCWS	Owner:	Private
Contact:	BRENT _OXIER		
Contactor gname:	CA1900018-LIVINGSTON-GRAHAM HA		
Contact phone:	6268566757	Contact address1:	13550 LIVE OAK
Contact address2:	Not Reported	Contact city:	IRWINDALE
Contact state:	CA	Contact zip:	91706
Activity code:	A		

Location Information:

Name:	LIVINGSTON-GRAHAM HANSON AGGREGATES		
Pwstypcd:	NTNCWS	Primsrccd:	GW
Popserved:	25		
Add1:	13550 LIVE OAK		
Add2:	Not Reported		
City:	IRWINDALE	State:	CA
Zip:	91706	Phone:	6268566757
Cityserv:	Not Reported	Cntyserv:	Los Angeles
Stateserv:	CA	Zipserv:	Not Reported

Enforcement Information:

Violation id:	0309002	Orig cd:	S
Enf fy:	2003	Enf act date:	07/24/2003
Enf act detail:	St AO (w/o penalty) issued	Enf act cat:	Formal

Enforcement Information:

Violation id:	0303001	Orig cd:	S
Enf fy:	2003	Enf act date:	01/21/2003
Enf act detail:	St AO (w/o penalty) issued	Enf act cat:	Formal

Violations Information:

Violation id:	0309002	Orig cd:	S
State:	CA	Viol fy:	2003
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	23		
Viol name:	Monitoring, Routine Major (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported

State mcl:	Not Reported	Cmpbdt:	06/01/2003
Cmpedt:	06/30/2003		

Violations Information:

Violation id:	0303001	Orig cd:	S
State:	CA	Viol fy:	2002
Contamcd:	3100		
Contamnm:	Coliform (TCR)		
Viol code:	23		
Viol name:	Monitoring, Routine Major (TCR)		
Rule code:	110		
Rule name:	TCR		
Violmeasur:	Not Reported	Unitmeasur:	Not Reported
State mcl:	Not Reported	Cmpbdt:	10/01/2002
Cmpedt:	12/31/2002		

PWS ID: CA1900018
Date Initiated: Not Reported Date Deactivated: Not Reported
PWS Name: LIVINGSTON GRAHAM
LIVINGSTON GRAHAM
16080 E. ARROW HWY
IRWINDALE, CA 91706

Addressee / Facility: System Owner/Responsible Party
LIVINGSTON GRAHAM
16080 E. ARROW HIGHWAY
IRWINDALE, CA 91706

Facility Latitude:	34 06 24	Facility Longitude:	117 56 03
City Served:	Not Reported		
Treatment Class:	Untreated	Population:	00000026

Violations information not reported.

ENFORCEMENT INFORMATION:

Truedate:	03/31/2009	Pwsid:	CA1900018
Pwsname:	LIVINGSTON-GRAHAM HANSON AGGREGATES		
Retpopsrvd:	25	Pwstypecod:	NTNC
Vioid:	0303001	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	10/1/2002 0:00:00		
Complperen:	12/31/2002 0:00:00	Enfdate:	1/21/2003 0:00:00
Enf action:	State AO (w/o Penalty) Issued		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	CA1900018
Pwsname:	LIVINGSTON-GRAHAM HANSON AGGREGATES		
Retpopsrvd:	25	Pwstypecod:	NTNC
Vioid:	0309002	Contaminant:	COLIFORM (TCR)
Viol. Type:	Monitoring, Routine Major (TCR)		
Complperbe:	6/1/2003 0:00:00		
Complperen:	6/30/2003 0:00:00	Enfdate:	7/24/2003 0:00:00
Enf action:	State AO (w/o Penalty) Issued		
Violmeasur:	Not Reported		

ENFORCEMENT INFORMATION:

System Name:	LIVINGSTON-GRAHAM HANSON AGGREGATES		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	10/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0303001		
Enforcement Date:	4/12/2007 0:00:00	Enf. Action:	Not Reported
System Name:	LIVINGSTON-GRAHAM HANSON AGGREGATES		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	10/1/2002 0:00:00 - 12/31/2002 0:00:00		
Violation ID:	0303001		
Enforcement Date:	No Enf Action as of	Enf. Action:	10/17/2006 0:00:00
System Name:	LIVINGSTON-GRAHAM HANSON AGGREGATES		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2003 0:00:00 - 6/30/2003 0:00:00		
Violation ID:	0309002		
Enforcement Date:	4/12/2007 0:00:00	Enf. Action:	Not Reported
System Name:	LIVINGSTON-GRAHAM HANSON AGGREGATES		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2003 0:00:00 - 6/30/2003 0:00:00		
Violation ID:	0309002		
Enforcement Date:	No Enf Action as of	Enf. Action:	10/17/2006 0:00:00

CONTACT INFORMATION:

Name:	LIVINGSTON-GRAHAM HANSON AGGREGATES	Population:	25
Contact:	Brent Oxier	Phone:	Not Reported
Address:	13550 LIVE OAK		
Address 2:	IRWINDALE		
	CA, 91 62685		

2
ESE **CA WELLS** **1246**
1/2 - 1 Mile
Lower

Water System Information:

Prime Station Code:	01S/10W-04R02 S	User ID:	4TH
FRDS Number:	1910009003	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Untreated
Source Lat/Long:	340600.0 1175600.0	Precision:	Undefined
Source Name:	WELL 03 MORADA ST. - INACTIVE		
System Number:	1910009		
System Name:	VALLEY COUNTY WATER DIST.		
Organization That Operates System:			
	14521 E RAMONA BLD		
	BALDWIN PARK, CA 91706		
Pop Served:	45000	Connections:	11664
Area Served:	BALDWIN PARK		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A3
WSW
1/2 - 1 Mile
Lower | **CA WELLS** | **1252**

Water System Information:

Prime Station Code:	01S/10W-08A03 S	User ID:	4TH
FRDS Number:	1910009007	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Treated
Source Lat/Long:	340600.0 1175700.0	Precision:	Undefined
Source Name:	WELL 07 LANTE STREET - TREATED		
System Number:	1910009		
System Name:	VALLEY COUNTY WATER DIST.		
Organization That Operates System:			
	14521 E RAMONA BLD		
	BALDWIN PARK, CA 91706		
Pop Served:	45000	Connections:	11664
Area Served:	BALDWIN PARK		
Sample Collected:	22-FEB-12	Findings:	9.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	22-FEB-12	Findings:	240. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-FEB-12	Findings:	6.5 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	22-FEB-12	Findings:	75. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-FEB-12	Findings:	32. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-FEB-12	Findings:	7.2 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	22-FEB-12	Findings:	2.5e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	22-FEB-12	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	22-FEB-12	Findings:	2. UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	14-MAR-12	Findings:	48. MG/L
Chemical:	SULFATE		
Sample Collected:	14-MAR-12	Findings:	0.53 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	14-MAR-12	Findings:	8.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	14-MAR-12	Findings:	260. UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	14-MAR-12	Findings:	6.1 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	14-MAR-12	Findings:	74. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-MAR-12	Findings:	32. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-MAR-12	Findings:	6.8 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	14-MAR-12	Findings:	2.4e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	14-MAR-12	Findings:	12. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	14-MAR-12	Findings:	2. UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	24-APR-12	Findings:	47. MG/L
Chemical:	SULFATE		
Sample Collected:	24-APR-12	Findings:	0.64 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	24-APR-12	Findings:	1.3e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	24-APR-12	Findings:	260. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-APR-12	Findings:	7.4 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	24-APR-12	Findings:	66. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	24-APR-12	Findings:	33. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-APR-12	Findings:	6.6 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	24-APR-12	Findings:	2.5e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	24-APR-12	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	24-APR-12	Findings:	2.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	11-MAY-12	Findings:	33. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-MAY-12	Findings:	49. MG/L
Chemical:	SULFATE		
Sample Collected:	16-MAY-12	Findings:	9.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	16-MAY-12	Findings:	260. UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	16-MAY-12	Findings:	7.4 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	16-MAY-12	Findings:	62. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-MAY-12	Findings:	33. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-MAY-12	Findings:	6.2 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	16-MAY-12	Findings:	2.6e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	16-MAY-12	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	16-MAY-12	Findings:	2.2 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	05-JUN-12	Findings:	47. MG/L
Chemical:	SULFATE		
Sample Collected:	05-JUN-12	Findings:	1.e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	05-JUN-12	Findings:	200. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-JUN-12	Findings:	6.9 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	05-JUN-12	Findings:	56. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-JUN-12	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-JUN-12	Findings:	6.1 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	05-JUN-12	Findings:	2.3e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	05-JUN-12	Findings:	13. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	05-JUN-12	Findings:	2.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	25-JUL-12	Findings:	49. MG/L
Chemical:	SULFATE		
Sample Collected:	25-JUL-12	Findings:	8.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	25-JUL-12	Findings:	150. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	25-JUL-12	Findings:	6.5 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	25-JUL-12	Findings:	46. UG/L
Chemical:	TRICHLOROETHYLENE		

Sample Collected:	25-JUL-12	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-JUL-12	Findings:	4.6 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	25-JUL-12	Findings:	2.e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	25-JUL-12	Findings:	12. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	25-JUL-12	Findings:	2.4 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	22-AUG-12	Findings:	49. MG/L
Chemical:	SULFATE		
Sample Collected:	12-JAN-11	Findings:	47. MG/L
Chemical:	SULFATE		
Sample Collected:	12-JAN-11	Findings:	1. UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	12-JAN-11	Findings:	1.4 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	12-JAN-11	Findings:	2.1e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	12-JAN-11	Findings:	440. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-JAN-11	Findings:	0.61 UG/L
Chemical:	1,1-DICHLOROETHANE		
Sample Collected:	12-JAN-11	Findings:	11. UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	12-JAN-11	Findings:	0.55 UG/L
Chemical:	1,2-DICHLOROETHANE		
Sample Collected:	12-JAN-11	Findings:	130. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-JAN-11	Findings:	37. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-JAN-11	Findings:	13. UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	12-JAN-11	Findings:	8.6e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	12-JAN-11	Findings:	19. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	12-JAN-11	Findings:	3.7 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	10-FEB-11	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-FEB-11	Findings:	46. MG/L
Chemical:	SULFATE		

Sample Collected:	16-FEB-11	Findings:	1.4 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	16-FEB-11	Findings:	1.5 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	16-FEB-11	Findings:	2.6e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	16-FEB-11	Findings:	430. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	16-FEB-11	Findings:	0.67 UG/L
Chemical:	1,1-DICHLOROETHANE		
Sample Collected:	16-FEB-11	Findings:	11. UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	16-FEB-11	Findings:	0.69 UG/L
Chemical:	1,2-DICHLOROETHANE		
Sample Collected:	16-FEB-11	Findings:	130. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-FEB-11	Findings:	37. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-FEB-11	Findings:	18. UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	16-FEB-11	Findings:	4.4e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	16-FEB-11	Findings:	19. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	16-FEB-11	Findings:	3.8 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	16-MAR-11	Findings:	47. MG/L
Chemical:	SULFATE		
Sample Collected:	16-MAR-11	Findings:	1.1 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	16-MAR-11	Findings:	1.1 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	16-MAR-11	Findings:	2.2e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	16-MAR-11	Findings:	380. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	16-MAR-11	Findings:	8. UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	16-MAR-11	Findings:	0.54 UG/L
Chemical:	1,2-DICHLOROETHANE		
Sample Collected:	16-MAR-11	Findings:	120. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-MAR-11	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		

Sample Collected:	16-MAR-11	Findings:	13. UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	16-MAR-11	Findings:	4.1e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	16-MAR-11	Findings:	17. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	16-MAR-11	Findings:	3.2 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	13-APR-11	Findings:	48. MG/L
Chemical:	SULFATE		
Sample Collected:	13-APR-11	Findings:	0.91 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	13-APR-11	Findings:	1.1 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	13-APR-11	Findings:	1.9e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	13-APR-11	Findings:	410. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-APR-11	Findings:	7.2 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	13-APR-11	Findings:	110. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-APR-11	Findings:	37. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-APR-11	Findings:	13. UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	13-APR-11	Findings:	4.1e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	13-APR-11	Findings:	15. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	13-APR-11	Findings:	3.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	25-MAY-11	Findings:	35. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-MAY-11	Findings:	560. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	25-MAY-11	Findings:	7.5
Chemical:	PH, LABORATORY		
Sample Collected:	25-MAY-11	Findings:	220. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	25-MAY-11	Findings:	270. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	25-MAY-11	Findings:	270. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		

Sample Collected:	25-MAY-11	Findings:	82. MG/L
Chemical:	CALCIUM		
Sample Collected:	25-MAY-11	Findings:	17. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	25-MAY-11	Findings:	23. MG/L
Chemical:	SODIUM		
Sample Collected:	25-MAY-11	Findings:	4.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	25-MAY-11	Findings:	37. MG/L
Chemical:	CHLORIDE		
Sample Collected:	25-MAY-11	Findings:	47. MG/L
Chemical:	SULFATE		
Sample Collected:	25-MAY-11	Findings:	0.21 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	25-MAY-11	Findings:	180. UG/L
Chemical:	BARIUM		
Sample Collected:	25-MAY-11	Findings:	1.2 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	25-MAY-11	Findings:	1.8e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	25-MAY-11	Findings:	510. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	25-MAY-11	Findings:	8. UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	25-MAY-11	Findings:	0.55 UG/L
Chemical:	1,2-DICHLOROETHANE		
Sample Collected:	25-MAY-11	Findings:	150. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	25-MAY-11	Findings:	470. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	25-MAY-11	Findings:	0.801
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	25-MAY-11	Findings:	0.255
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	25-MAY-11	Findings:	37. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-MAY-11	Findings:	15. UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	25-MAY-11	Findings:	3.6e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	25-MAY-11	Findings:	8100. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	25-MAY-11	Findings:	17. UG/L
Chemical:	PERCHLORATE		

Sample Collected:	25-MAY-11	Findings:	3. UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	23-JUN-11	Findings:	48. MG/L
Chemical:	SULFATE		
Sample Collected:	23-JUN-11	Findings:	1.2 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	23-JUN-11	Findings:	1.8e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	23-JUN-11	Findings:	480. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	23-JUN-11	Findings:	9.3 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	23-JUN-11	Findings:	0.53 UG/L
Chemical:	1,2-DICHLOROETHANE		
Sample Collected:	23-JUN-11	Findings:	140. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	23-JUN-11	Findings:	36. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-JUN-11	Findings:	15. UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	23-JUN-11	Findings:	3.6e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	23-JUN-11	Findings:	16. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	23-JUN-11	Findings:	3. UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	25-JUL-11	Findings:	46. MG/L
Chemical:	SULFATE		
Sample Collected:	25-JUL-11	Findings:	1. UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	25-JUL-11	Findings:	1.8e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	25-JUL-11	Findings:	320. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	25-JUL-11	Findings:	6.4 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	25-JUL-11	Findings:	100. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	25-JUL-11	Findings:	36. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-JUL-11	Findings:	11. UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	25-JUL-11	Findings:	3.7e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		

Sample Collected:	25-JUL-11	Findings:	14. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	25-JUL-11	Findings:	2.6 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	18-AUG-11	Findings:	47. MG/L
Chemical:	SULFATE		
Sample Collected:	18-AUG-11	Findings:	0.86 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	18-AUG-11	Findings:	1.6e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	18-AUG-11	Findings:	340. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-AUG-11	Findings:	5. UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	18-AUG-11	Findings:	97. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-AUG-11	Findings:	33. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-AUG-11	Findings:	7.6 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	18-AUG-11	Findings:	3.3e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	18-AUG-11	Findings:	14. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	18-AUG-11	Findings:	2.6 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	13-SEP-11	Findings:	0.97 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	13-SEP-11	Findings:	270. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-SEP-11	Findings:	5.5 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	13-SEP-11	Findings:	89. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-SEP-11	Findings:	34. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-SEP-11	Findings:	8. UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	26-SEP-11	Findings:	47. MG/L
Chemical:	SULFATE		
Sample Collected:	26-SEP-11	Findings:	0.83 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	26-SEP-11	Findings:	1.2e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		

Sample Collected:	26-SEP-11	Findings:	280. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	26-SEP-11	Findings:	5.9 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	26-SEP-11	Findings:	83. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	26-SEP-11	Findings:	35. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	26-SEP-11	Findings:	8.6 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	26-SEP-11	Findings:	2.8e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	26-SEP-11	Findings:	13. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	26-SEP-11	Findings:	2.4 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	18-NOV-11	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-NOV-11	Findings:	2.5 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	22-NOV-11	Findings:	44. MG/L
Chemical:	SULFATE		
Sample Collected:	22-NOV-11	Findings:	0.83 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	22-NOV-11	Findings:	1.1e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	22-NOV-11	Findings:	300. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-NOV-11	Findings:	4.9 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	22-NOV-11	Findings:	84. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-NOV-11	Findings:	31. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-NOV-11	Findings:	12. UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	22-NOV-11	Findings:	3.e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	22-NOV-11	Findings:	15. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	22-NOV-11	Findings:	2.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	27-DEC-11	Findings:	47. MG/L
Chemical:	SULFATE		

Sample Collected:	27-DEC-11	Findings:	0.71 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	27-DEC-11	Findings:	1.3e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	27-DEC-11	Findings:	290. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	27-DEC-11	Findings:	5. UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	27-DEC-11	Findings:	84. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	27-DEC-11	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	27-DEC-11	Findings:	9.2 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	27-DEC-11	Findings:	2.8e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	27-DEC-11	Findings:	13. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	27-DEC-11	Findings:	2.2 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	25-JAN-12	Findings:	48. MG/L
Chemical:	SULFATE		
Sample Collected:	25-JAN-12	Findings:	0.68 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	25-JAN-12	Findings:	1.e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	25-JAN-12	Findings:	260. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	25-JAN-12	Findings:	5.6 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	25-JAN-12	Findings:	76. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	25-JAN-12	Findings:	32. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-JAN-12	Findings:	7.8 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	25-JAN-12	Findings:	2.9e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	25-JAN-12	Findings:	14. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	25-JAN-12	Findings:	2.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	16-FEB-12	Findings:	0.24 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		

Sample Collected:	16-FEB-12	Findings:	170. UG/L
Chemical:	BARIUM		
Sample Collected:	16-FEB-12	Findings:	31. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-FEB-12	Findings:	47. MG/L
Chemical:	SULFATE		
Sample Collected:	22-FEB-12	Findings:	0.77 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	19-MAR-14	Findings:	1.3e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	19-MAR-14	Findings:	9.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	19-MAR-14	Findings:	2. UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	16-APR-14	Findings:	54. MG/L
Chemical:	SULFATE		
Sample Collected:	16-APR-14	Findings:	1.3 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	16-APR-14	Findings:	3.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	16-APR-14	Findings:	78. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	16-APR-14	Findings:	5.1 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	16-APR-14	Findings:	0.56 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		
Sample Collected:	16-APR-14	Findings:	31. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-APR-14	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-APR-14	Findings:	2.2 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	16-APR-14	Findings:	1.2e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	16-APR-14	Findings:	9.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	16-APR-14	Findings:	2.1 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	30-APR-14	Findings:	860. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	30-APR-14	Findings:	7.42
Chemical:	PH, LABORATORY		
Sample Collected:	30-APR-14	Findings:	250. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		

Sample Collected:	30-APR-14	Findings:	300. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	30-APR-14	Findings:	320. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	30-APR-14	Findings:	98.5 MG/L
Chemical:	CALCIUM		
Sample Collected:	30-APR-14	Findings:	18.8 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	30-APR-14	Findings:	22. MG/L
Chemical:	SODIUM		
Sample Collected:	30-APR-14	Findings:	5.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	30-APR-14	Findings:	43. MG/L
Chemical:	CHLORIDE		
Sample Collected:	30-APR-14	Findings:	53. MG/L
Chemical:	SULFATE		
Sample Collected:	30-APR-14	Findings:	0.19 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	30-APR-14	Findings:	210. UG/L
Chemical:	BARIUM		
Sample Collected:	30-APR-14	Findings:	440. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	30-APR-14	Findings:	0.873
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	30-APR-14	Findings:	0.359
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	30-APR-14	Findings:	40. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	30-APR-14	Findings:	8900. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	01-MAY-14	Findings:	0.233 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	01-MAY-14	Findings:	3.7 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	01-MAY-14	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-MAY-14	Findings:	1.6e-002 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	13-MAY-14	Findings:	53. MG/L
Chemical:	SULFATE		
Sample Collected:	13-MAY-14	Findings:	1.3 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	13-MAY-14	Findings:	4.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		

Sample Collected:	13-MAY-14	Findings:	180. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-MAY-14	Findings:	5.1 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	13-MAY-14	Findings:	0.5 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		
Sample Collected:	13-MAY-14	Findings:	34. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-MAY-14	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-MAY-14	Findings:	2.6 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	13-MAY-14	Findings:	1.1e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	13-MAY-14	Findings:	9.1 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	13-MAY-14	Findings:	2.1 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	11-JUN-14	Findings:	53. MG/L
Chemical:	SULFATE		
Sample Collected:	11-JUN-14	Findings:	1.1 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	11-JUN-14	Findings:	3.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	11-JUN-14	Findings:	72. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-JUN-14	Findings:	3.7 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	11-JUN-14	Findings:	27. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-JUN-14	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-JUN-14	Findings:	1.6 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	11-JUN-14	Findings:	1.2e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	11-JUN-14	Findings:	8.7 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	11-JUN-14	Findings:	2. UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	23-JUL-14	Findings:	48. MG/L
Chemical:	SULFATE		
Sample Collected:	23-JUL-14	Findings:	1.1 UG/L
Chemical:	CHLOROFORM (THM)		

Sample Collected:	23-JUL-14	Findings:	2.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	23-JUL-14	Findings:	67. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	23-JUL-14	Findings:	3.6 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	23-JUL-14	Findings:	25. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	23-JUL-14	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-JUL-14	Findings:	1.8 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	23-JUL-14	Findings:	1.e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	23-JUL-14	Findings:	8.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	23-JUL-14	Findings:	1.8 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	07-AUG-14	Findings:	1.1 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	07-AUG-14	Findings:	58. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-AUG-14	Findings:	3.3 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	07-AUG-14	Findings:	21. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-AUG-14	Findings:	40. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-AUG-14	Findings:	1.4 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	19-AUG-14	Findings:	51. MG/L
Chemical:	SULFATE		
Sample Collected:	22-AUG-12	Findings:	0.53 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	22-AUG-12	Findings:	1.6e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	22-AUG-12	Findings:	220. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-AUG-12	Findings:	7.8 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	22-AUG-12	Findings:	68. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-AUG-12	Findings:	35. MG/L
Chemical:	NITRATE (AS NO3)		

Sample Collected:	22-AUG-12	Findings:	5.9 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	22-AUG-12	Findings:	1.8e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	22-AUG-12	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	22-AUG-12	Findings:	4.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	11-SEP-12	Findings:	0.61 UG/L
Chemical:	CARBON TETRACHLORIDE		
Sample Collected:	11-SEP-12	Findings:	160. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-SEP-12	Findings:	7.1 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	11-SEP-12	Findings:	50. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-AUG-14	Findings:	1.3 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	19-AUG-14	Findings:	55. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-AUG-14	Findings:	3.7 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	19-AUG-14	Findings:	0.61 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		
Sample Collected:	19-AUG-14	Findings:	24. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-AUG-14	Findings:	41. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-AUG-14	Findings:	1.5 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	19-AUG-14	Findings:	1.e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	19-AUG-14	Findings:	8.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	19-AUG-14	Findings:	1.8 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	10-SEP-14	Findings:	54. MG/L
Chemical:	SULFATE		
Sample Collected:	10-SEP-14	Findings:	1.1 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	10-SEP-14	Findings:	42. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-SEP-14	Findings:	3.1 UG/L
Chemical:	1,1-DICHLOROETHYLENE		

Sample Collected:	10-SEP-14	Findings:	0.51 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		
Sample Collected:	10-SEP-14	Findings:	21. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-SEP-12	Findings:	420. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11-SEP-12	Findings:	32. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-SEP-12	Findings:	4.6 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	18-SEP-12	Findings:	49. MG/L
Chemical:	SULFATE		
Sample Collected:	18-SEP-12	Findings:	9.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	18-SEP-12	Findings:	160. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-SEP-12	Findings:	6.8 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	18-SEP-12	Findings:	46. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-SEP-12	Findings:	36. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-SEP-12	Findings:	4.6 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	18-SEP-12	Findings:	2.e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	18-SEP-12	Findings:	9.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	18-SEP-12	Findings:	2.6 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	22-OCT-12	Findings:	48. MG/L
Chemical:	SULFATE		
Sample Collected:	10-SEP-14	Findings:	40. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-SEP-14	Findings:	1.4 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	10-SEP-14	Findings:	1.e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	10-SEP-14	Findings:	8.5 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	10-SEP-14	Findings:	1.8 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	02-DEC-14	Findings:	42. MG/L
Chemical:	NITRATE (AS NO3)		

Sample Collected:	24-APR-15	Findings:	0.2 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	24-APR-15	Findings:	230. UG/L
Chemical:	BARIUM		
Sample Collected:	24-APR-15	Findings:	12. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-APR-15	Findings:	2.6 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	24-APR-15	Findings:	0.82 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		
Sample Collected:	24-APR-15	Findings:	5.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	24-APR-15	Findings:	43. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-OCT-12	Findings:	9.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	22-OCT-12	Findings:	120. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-OCT-12	Findings:	6.3 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	22-OCT-12	Findings:	42. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-OCT-12	Findings:	35. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-OCT-12	Findings:	3.8 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	22-OCT-12	Findings:	2.1e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	22-OCT-12	Findings:	13. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	22-OCT-12	Findings:	2.7 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	14-NOV-12	Findings:	50. MG/L
Chemical:	SULFATE		
Sample Collected:	14-NOV-12	Findings:	8.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	14-NOV-12	Findings:	150. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-NOV-12	Findings:	7.1 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	14-NOV-12	Findings:	48. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	28-APR-15	Findings:	53. MG/L
Chemical:	SULFATE		

Sample Collected:	28-APR-15	Findings:	25. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	28-APR-15	Findings:	3. UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	28-APR-15	Findings:	0.61 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		
Sample Collected:	28-APR-15	Findings:	10. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	28-APR-15	Findings:	42. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-APR-15	Findings:	8.e-003 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	28-APR-15	Findings:	6.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	28-APR-15	Findings:	1.7 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	19-MAY-15	Findings:	52. MG/L
Chemical:	SULFATE		
Sample Collected:	19-MAY-15	Findings:	36. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-MAY-15	Findings:	3.4 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	14-NOV-12	Findings:	38. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-NOV-12	Findings:	4.3 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	14-NOV-12	Findings:	2.1e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	14-NOV-12	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	14-NOV-12	Findings:	2.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	10-DEC-12	Findings:	33. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-DEC-12	Findings:	46. MG/L
Chemical:	SULFATE		
Sample Collected:	18-DEC-12	Findings:	8.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	18-DEC-12	Findings:	230. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-DEC-12	Findings:	4.5 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	18-DEC-12	Findings:	54. UG/L
Chemical:	TRICHLOROETHYLENE		

Sample Collected:	18-DEC-12	Findings:	37. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-DEC-12	Findings:	4.8 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	18-DEC-12	Findings:	1.7e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	18-DEC-12	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	18-DEC-12	Findings:	2.1 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	19-MAY-15	Findings:	0.63 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		
Sample Collected:	19-MAY-15	Findings:	15. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-MAY-15	Findings:	45. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-MAY-15	Findings:	0.9 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	19-MAY-15	Findings:	1.1e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	19-MAY-15	Findings:	7.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	19-MAY-15	Findings:	1.8 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	28-MAY-15	Findings:	43. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-JUN-15	Findings:	51. MG/L
Chemical:	SULFATE		
Sample Collected:	17-JUN-15	Findings:	35. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	17-JUN-15	Findings:	3.4 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	17-JUN-15	Findings:	0.61 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		
Sample Collected:	17-JUN-15	Findings:	13. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-JUN-15	Findings:	45. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-JUN-15	Findings:	0.83 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	17-JUN-15	Findings:	8.e-003 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	16-JAN-13	Findings:	47. MG/L
Chemical:	SULFATE		

Sample Collected:	16-JAN-13	Findings:	7.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	16-JAN-13	Findings:	130. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	16-JAN-13	Findings:	5.5 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	16-JAN-13	Findings:	48. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-JAN-13	Findings:	36. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-JAN-13	Findings:	4. UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	16-JAN-13	Findings:	2.e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	16-JAN-13	Findings:	9.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	16-JAN-13	Findings:	2.2 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	26-FEB-13	Findings:	47. MG/L
Chemical:	SULFATE		
Sample Collected:	26-FEB-13	Findings:	6.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	26-FEB-13	Findings:	120. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	26-FEB-13	Findings:	4.7 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	17-JUN-15	Findings:	6.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	17-JUN-15	Findings:	1.8 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	21-JUL-15	Findings:	50. MG/L
Chemical:	SULFATE		
Sample Collected:	21-JUL-15	Findings:	35. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-JUL-15	Findings:	3.2 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	21-JUL-15	Findings:	0.66 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		
Sample Collected:	21-JUL-15	Findings:	15. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	21-JUL-15	Findings:	46. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-JUL-15	Findings:	0.97 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		

Sample Collected:	21-JUL-15	Findings:	1.e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	21-JUL-15	Findings:	6.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	21-JUL-15	Findings:	1.7 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	18-AUG-15	Findings:	53. MG/L
Chemical:	SULFATE		
Sample Collected:	18-AUG-15	Findings:	40. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-AUG-15	Findings:	3.4 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	26-FEB-13	Findings:	50. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	26-FEB-13	Findings:	35. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	26-FEB-13	Findings:	3.3 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	26-FEB-13	Findings:	2.e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	26-FEB-13	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	26-FEB-13	Findings:	2.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	12-MAR-13	Findings:	38. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-MAR-13	Findings:	48. MG/L
Chemical:	SULFATE		
Sample Collected:	13-MAR-13	Findings:	2.7e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	13-MAR-13	Findings:	170. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-MAR-13	Findings:	5.2 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	13-MAR-13	Findings:	52. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-MAR-13	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-MAR-13	Findings:	3.8 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	13-MAR-13	Findings:	2.e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	18-AUG-15	Findings:	0.56 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		

Sample Collected:	18-AUG-15	Findings:	13. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-AUG-15	Findings:	43. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-AUG-15	Findings:	1.1 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	18-AUG-15	Findings:	7.9e-003 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	18-AUG-15	Findings:	5.9 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	18-AUG-15	Findings:	1.7 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	19-AUG-15	Findings:	420. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	19-AUG-15	Findings:	43. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-SEP-15	Findings:	52. MG/L
Chemical:	SULFATE		
Sample Collected:	23-SEP-15	Findings:	34. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	23-SEP-15	Findings:	3.3 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	23-SEP-15	Findings:	12. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	23-SEP-15	Findings:	43. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	23-SEP-15	Findings:	0.8 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	13-MAR-13	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	13-MAR-13	Findings:	2.2 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	24-APR-13	Findings:	48. MG/L
Chemical:	SULFATE		
Sample Collected:	24-APR-13	Findings:	8.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	24-APR-13	Findings:	120. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-APR-13	Findings:	5.2 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	24-APR-13	Findings:	41. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	24-APR-13	Findings:	40. MG/L
Chemical:	NITRATE (AS NO3)		

Sample Collected:	24-APR-13	Findings:	3.5 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	24-APR-13	Findings:	1.8e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	24-APR-13	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	24-APR-13	Findings:	2.1 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	22-MAY-13	Findings:	46. MG/L
Chemical:	SULFATE		
Sample Collected:	22-MAY-13	Findings:	6.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	22-MAY-13	Findings:	97. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-MAY-13	Findings:	3.2 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	23-SEP-15	Findings:	7.1e-003 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	23-SEP-15	Findings:	7.2 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	23-SEP-15	Findings:	1.5 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	21-OCT-15	Findings:	49. MG/L
Chemical:	SULFATE		
Sample Collected:	21-OCT-15	Findings:	35. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-OCT-15	Findings:	2.9 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	21-OCT-15	Findings:	0.64 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		
Sample Collected:	21-OCT-15	Findings:	11. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	21-OCT-15	Findings:	42. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-OCT-15	Findings:	0.85 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	21-OCT-15	Findings:	6.4e-003 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	21-OCT-15	Findings:	7.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	21-OCT-15	Findings:	1.6 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	22-MAY-13	Findings:	39. UG/L
Chemical:	TRICHLOROETHYLENE		

Sample Collected:	22-MAY-13	Findings:	38. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-MAY-13	Findings:	2.4 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	22-MAY-13	Findings:	1.6e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	22-MAY-13	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	22-MAY-13	Findings:	1.9 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	30-MAY-13	Findings:	38. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-JUN-13	Findings:	47. MG/L
Chemical:	SULFATE		
Sample Collected:	18-JUN-13	Findings:	6.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	18-JUN-13	Findings:	65. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-JUN-13	Findings:	4.4 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	18-JUN-13	Findings:	35. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-JUN-13	Findings:	38. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-JUN-13	Findings:	3.1 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	18-JUN-13	Findings:	1.6e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	18-NOV-15	Findings:	9.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	18-NOV-15	Findings:	49. MG/L
Chemical:	SULFATE		
Sample Collected:	18-NOV-15	Findings:	39. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-NOV-15	Findings:	3.6 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	18-NOV-15	Findings:	16. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-NOV-15	Findings:	42. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-NOV-15	Findings:	1. UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	18-NOV-15	Findings:	7.6e-003 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		

Sample Collected:	18-NOV-15	Findings:	6.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	18-NOV-15	Findings:	1.6 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	14-DEC-15	Findings:	9.5 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	14-DEC-15	Findings:	49. MG/L
Chemical:	SULFATE		
Sample Collected:	14-DEC-15	Findings:	38. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-DEC-15	Findings:	3.7 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	18-JUN-13	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	18-JUN-13	Findings:	2.1 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	18-JUL-13	Findings:	47. MG/L
Chemical:	SULFATE		
Sample Collected:	18-JUL-13	Findings:	7.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	18-JUL-13	Findings:	88. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-JUL-13	Findings:	4.1 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	18-JUL-13	Findings:	35. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-JUL-13	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-JUL-13	Findings:	2.4 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	18-JUL-13	Findings:	1.5e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	18-JUL-13	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	18-JUL-13	Findings:	1.9 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	15-AUG-13	Findings:	2.3 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	15-AUG-13	Findings:	77. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	15-AUG-13	Findings:	3.7 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	14-DEC-15	Findings:	0.56 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		

Sample Collected:	14-DEC-15	Findings:	15. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-DEC-15	Findings:	42. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-DEC-15	Findings:	0.89 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	14-DEC-15	Findings:	7.2e-003 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	14-DEC-15	Findings:	5.6 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	14-DEC-15	Findings:	1.6 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	21-JAN-16	Findings:	7.9e-003 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	11-FEB-16	Findings:	9.1 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	11-FEB-16	Findings:	50. MG/L
Chemical:	SULFATE		
Sample Collected:	11-FEB-16	Findings:	37. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-FEB-16	Findings:	3.8 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	11-FEB-16	Findings:	0.59 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		
Sample Collected:	11-FEB-16	Findings:	14. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-FEB-16	Findings:	0.97 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	15-AUG-13	Findings:	35. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-AUG-13	Findings:	430. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	15-AUG-13	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-AUG-13	Findings:	2.5 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	22-AUG-13	Findings:	49. MG/L
Chemical:	SULFATE		
Sample Collected:	22-AUG-13	Findings:	2.7e-002 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	22-AUG-13	Findings:	93. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-AUG-13	Findings:	4.1 UG/L
Chemical:	1,1-DICHLOROETHYLENE		

Sample Collected:	22-AUG-13	Findings:	33. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-AUG-13	Findings:	39. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-AUG-13	Findings:	2.3 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	22-AUG-13	Findings:	1.5e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	11-FEB-16	Findings:	8.1e-003 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	11-FEB-16	Findings:	6.4 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	11-FEB-16	Findings:	1.7 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	23-FEB-16	Findings:	9.6 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	16-MAR-16	Findings:	9.3 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	16-MAR-16	Findings:	47. MG/L
Chemical:	SULFATE		
Sample Collected:	16-MAR-16	Findings:	37. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	16-MAR-16	Findings:	3.2 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	16-MAR-16	Findings:	15. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-MAR-16	Findings:	0.81 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	16-MAR-16	Findings:	7.9e-003 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	16-MAR-16	Findings:	6.8 UG/L
Chemical:	PERCHLORATE		
Sample Collected:	16-MAR-16	Findings:	1.2 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	22-AUG-13	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	22-AUG-13	Findings:	1.7 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	05-DEC-13	Findings:	49. MG/L
Chemical:	SULFATE		
Sample Collected:	05-DEC-13	Findings:	1.3 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	05-DEC-13	Findings:	5.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		

Sample Collected:	05-DEC-13	Findings:	60. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-DEC-13	Findings:	7.3 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	05-DEC-13	Findings:	0.75 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		
Sample Collected:	05-DEC-13	Findings:	26. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-DEC-13	Findings:	31. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	05-DEC-13	Findings:	1.5 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	05-DEC-13	Findings:	1.5e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	05-DEC-13	Findings:	11. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	05-DEC-13	Findings:	2.1 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	06-DEC-13	Findings:	31. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-FEB-14	Findings:	50. MG/L
Chemical:	SULFATE		
Sample Collected:	24-FEB-14	Findings:	1.6 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	24-FEB-14	Findings:	6.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	24-FEB-14	Findings:	77. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-FEB-14	Findings:	6.5 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	24-FEB-14	Findings:	0.56 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		
Sample Collected:	24-FEB-14	Findings:	29. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	24-FEB-14	Findings:	30. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-FEB-14	Findings:	2.3 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		
Sample Collected:	24-FEB-14	Findings:	1.3e-002 UG/L
Chemical:	1,2,3-TRICHLOROPROPANE		
Sample Collected:	24-FEB-14	Findings:	10. UG/L
Chemical:	PERCHLORATE		
Sample Collected:	24-FEB-14	Findings:	2.3 UG/L
Chemical:	1,4-DIOXANE		

Sample Collected:	25-FEB-14	Findings:	29. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-MAR-14	Findings:	52. MG/L
Chemical:	SULFATE		
Sample Collected:	19-MAR-14	Findings:	1.4 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	19-MAR-14	Findings:	5.e-003 UG/L
Chemical:	N-NITROSODIMETHYLAMINE (NDMA)		
Sample Collected:	19-MAR-14	Findings:	84. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-MAR-14	Findings:	5.7 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	19-MAR-14	Findings:	0.53 UG/L
Chemical:	DICHLORODIFLUOROMETHANE (FREON 12)		
Sample Collected:	19-MAR-14	Findings:	34. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-MAR-14	Findings:	35. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	19-MAR-14	Findings:	2.3 UG/L
Chemical:	CIS-1,2-DICHLOROETHYLENE		

A4
WSW **CA WELLS** **1251**
1/2 - 1 Mile
Lower

Water System Information:

Prime Station Code:	01S/10W-08A02 S	User ID:	4TH
FRDS Number:	1910009008	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Treated
Source Lat/Long:	340600.0 1175700.0	Precision:	Undefined
Source Name:	WELL 08 HIGHWAY ARROW - TREATED		
System Number:	1910009		
System Name:	VALLEY COUNTY WATER DIST.		
Organization That Operates System:			
	14521 E RAMONA BLD		
	BALDWIN PARK, CA 91706		
Pop Served:	45000	Connections:	11664
Area Served:	BALDWIN PARK		

5
South **CA WELLS** **CADW60000005162**
1/2 - 1 Mile
Lower

Objectid:	5162
Latitude:	34.0928
Longitude:	-117.9439
Site code:	340928N1179439W001
State well numbe:	01S10W08R001S
Local well name:	'3050'
Well use id:	1
Well use descrip:	Observation
County id:	19
County name:	Los Angeles

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Basin code:	'4-13'
Basin desc:	San Gabriel Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000005162

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91706	5	0

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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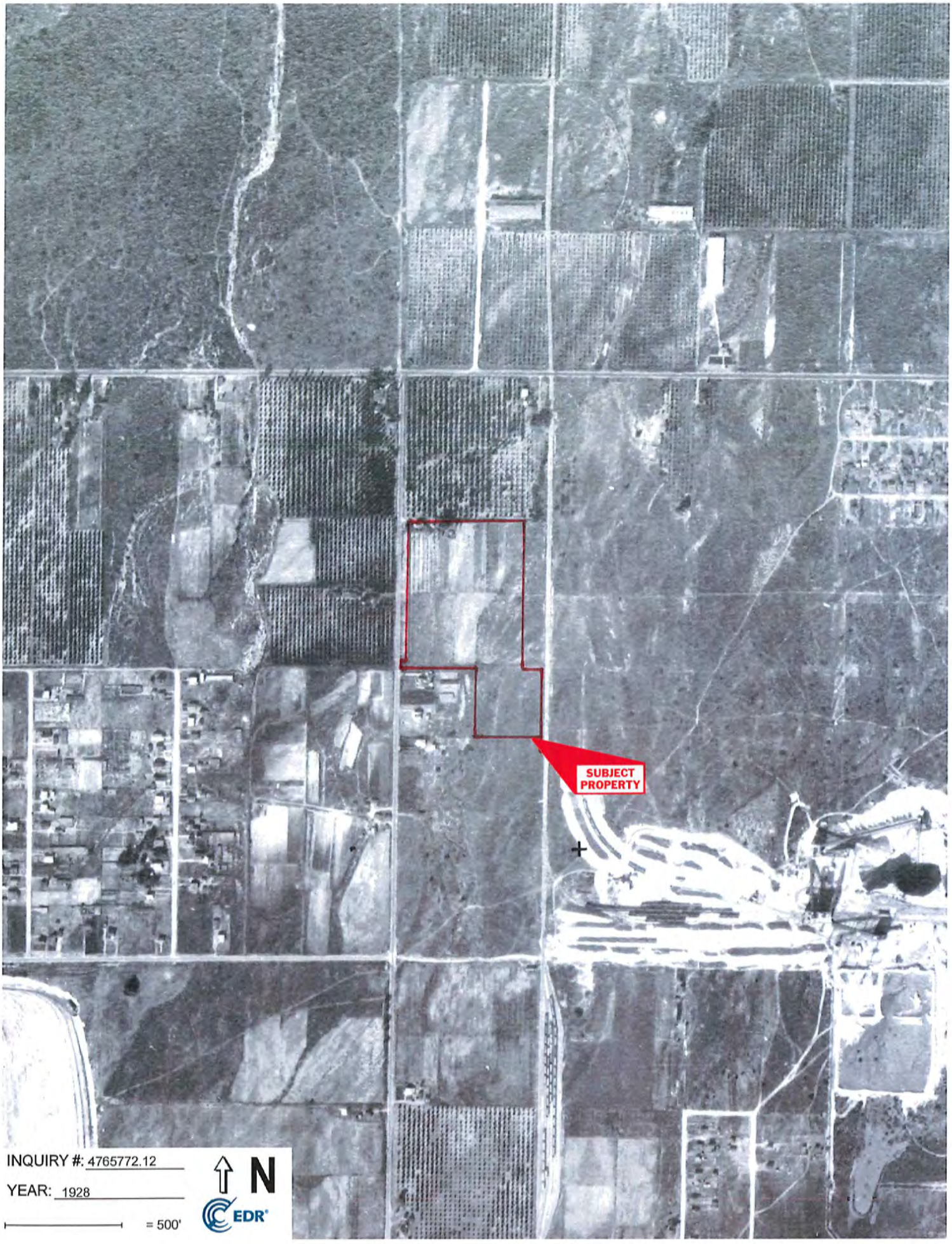
APPENDIX F

AERIAL PHOTOGRAPHS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EDR

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YEAR: 1938
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EDR

SUBJECT PROPERTY
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YEAR: 1948
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EDR

SUBJECT PROPERTY
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SUBJECT PROPERTY
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YEAR: 1964
= 500'
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EDR

SUBJECT PROPERTY
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EDR

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EDR

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EDR

INQUIRY #: 4765772.12

YEAR: 1983

= 500'

N

EDR

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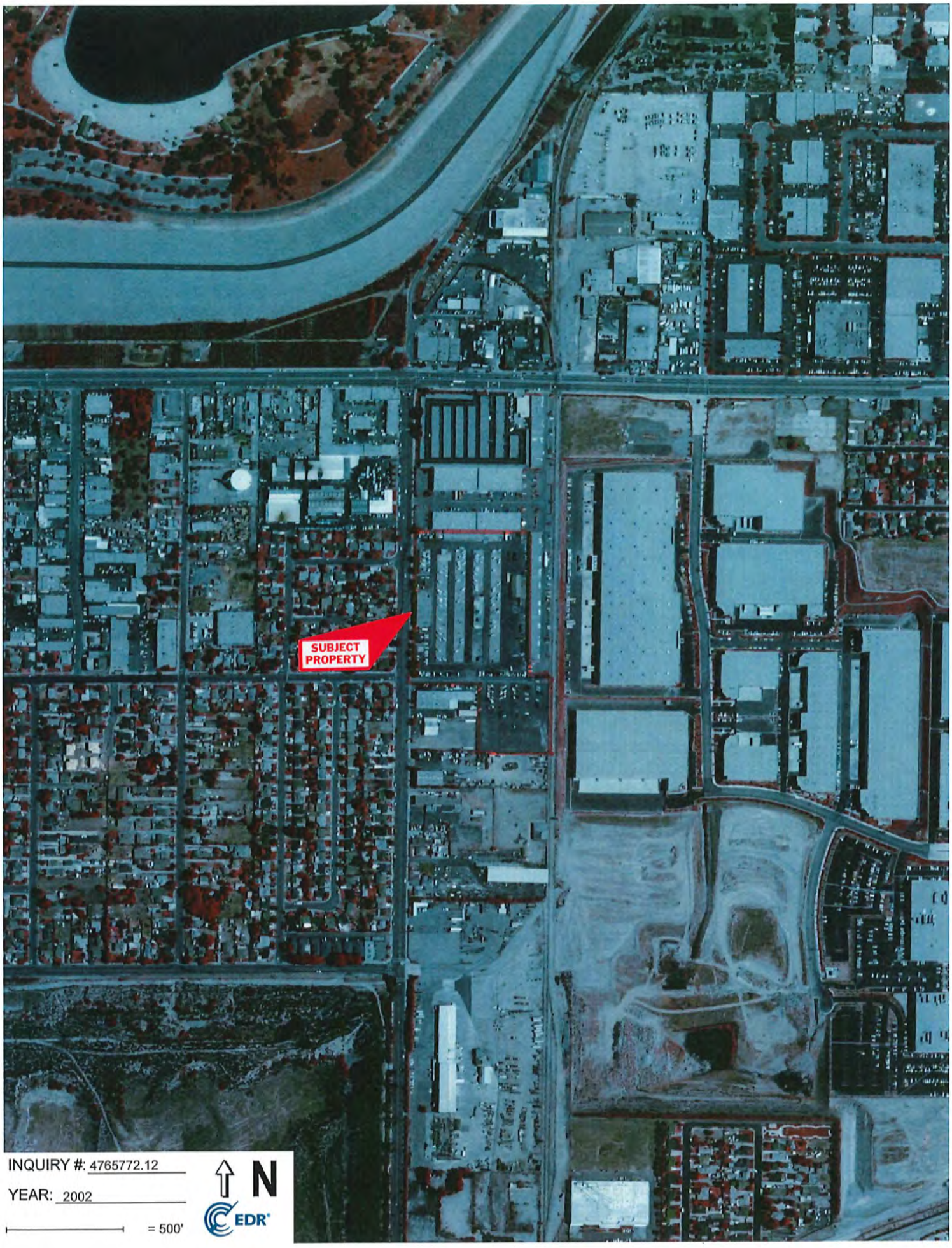
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EDR

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EDR

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SUBJECT PROPERTY
INQUIRY #: 4765772.12
YEAR: 2012
= 500'
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EDR

APPENDIX G

HISTORICAL RESEARCH DOCUMENTATION

Frontier Irwindale

5010 Azusa Canyon Road

Baldwin Park, CA 91706

Inquiry Number: 4765772.3

October 28, 2016

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

10/28/16

Site Name:

Frontier Irwindale
5010 Azusa Canyon Road
Baldwin Park, CA 91706
EDR Inquiry # 4765772.3

Client Name:

ATC Group Services LLC
25 Cupania Circle
Monterey Park, CA 91755
Contact: Steve Anderson

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by ATC Group Services LLC were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 5609-4FC1-B30E

PO # Ph3

Project 1011600776

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 5609-4FC1-B30E

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Frontier Irwindale

5010 Azusa Canyon Road

Baldwin Park, CA 91706

Inquiry Number: 4765772.4

October 28, 2016

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

10/28/16

Site Name:

Frontier Irwindale
5010 Azusa Canyon Road
Baldwin Park, CA 91706
EDR Inquiry # 4765772.4

Client Name:

ATC Group Services LLC
25 Cupania Circle
Monterey Park, CA 91755
Contact: Steve Anderson

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by ATC Group Services LLC were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# Ph3
Project: 1011600776

Coordinates:

Latitude:	34.10425 34° 6' 15" North
Longitude:	-117.941862 -117° 56' 31" West
UTM Zone:	Zone 11 North
UTM X Meters:	413126.02
UTM Y Meters:	3774115.49
Elevation:	449.00' above sea level

Maps Provided:

2012	1925, 1927
1981	1904
1972	1898
1966	1897
1953	1894
1939	
1933	
1928	

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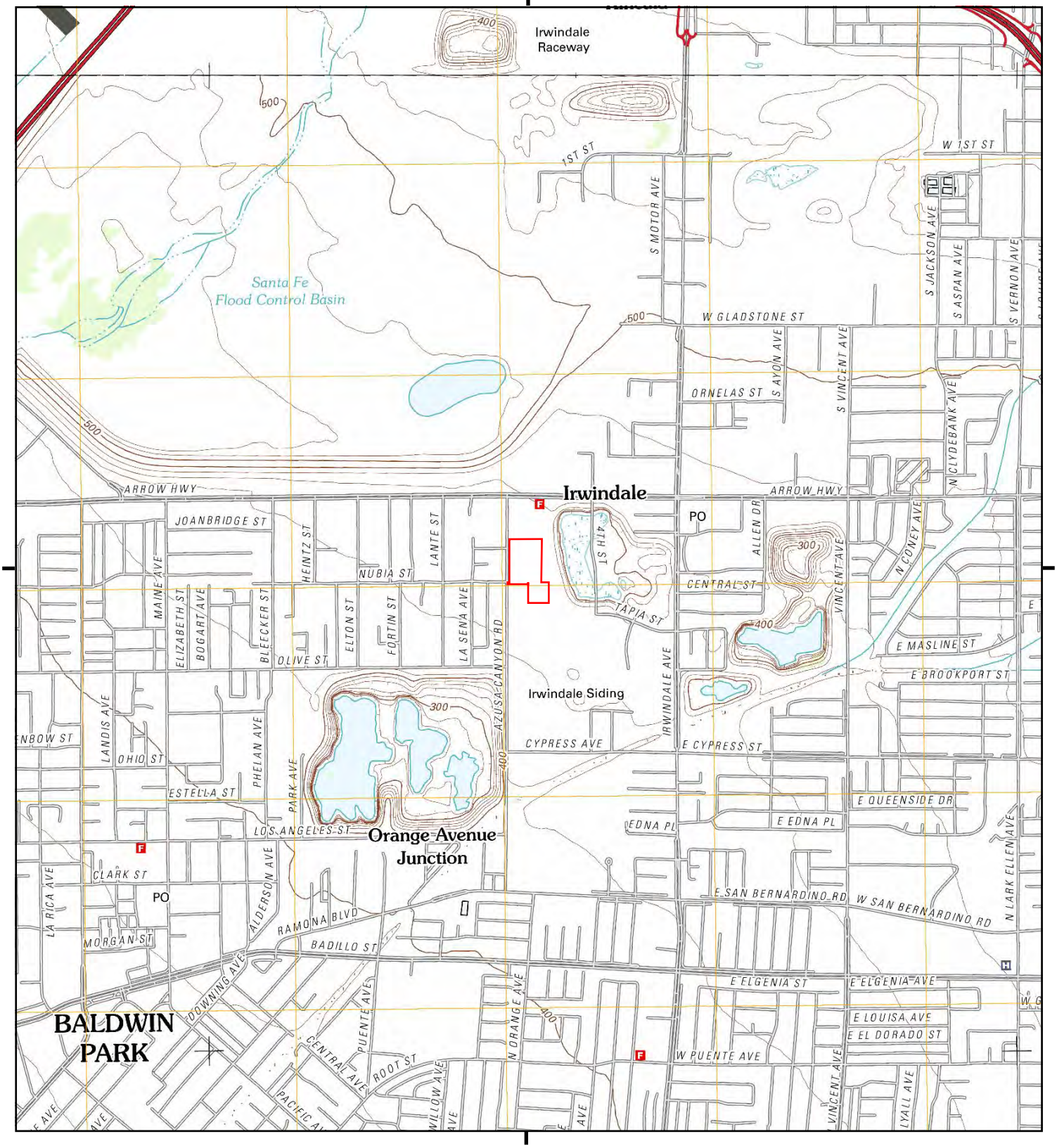
Historical Topo Map

2012



This report includes information from the following map sheet(s).

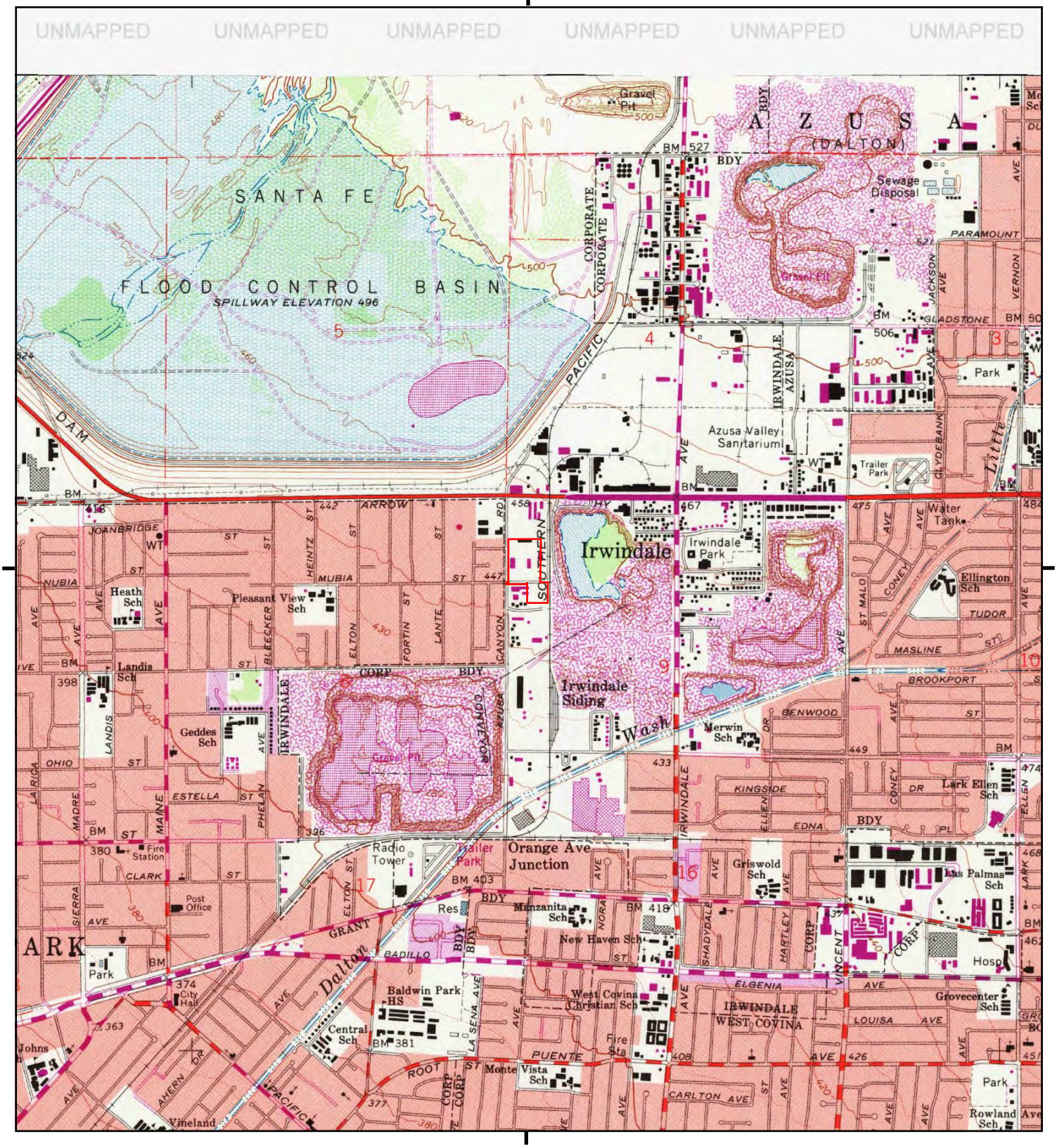
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Baldwin Park, 2012, 7.5-minute
N, Azusa, 2012, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

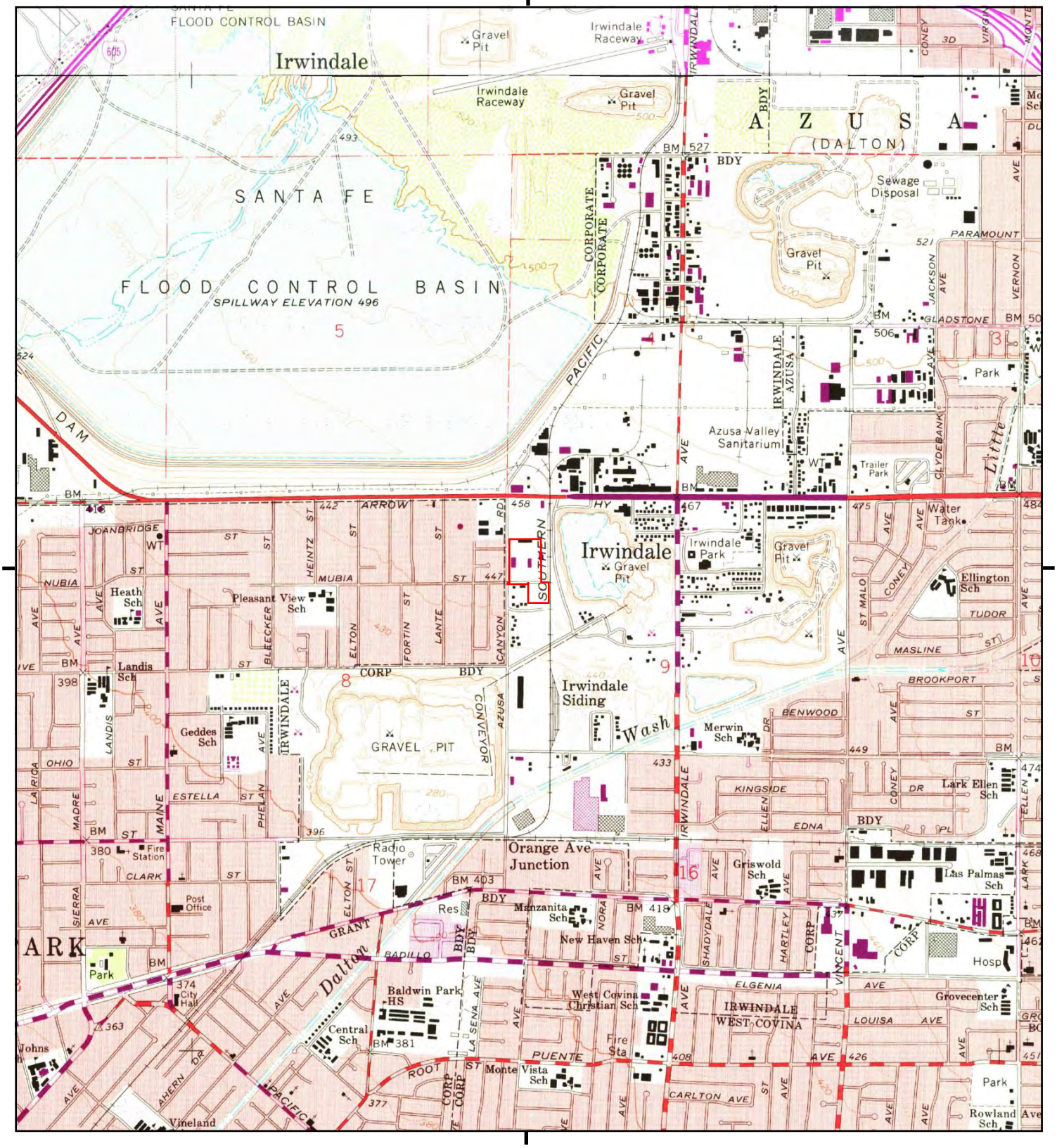
TP, Baldwin Park, 1981, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N

Historical Topo Map

1972



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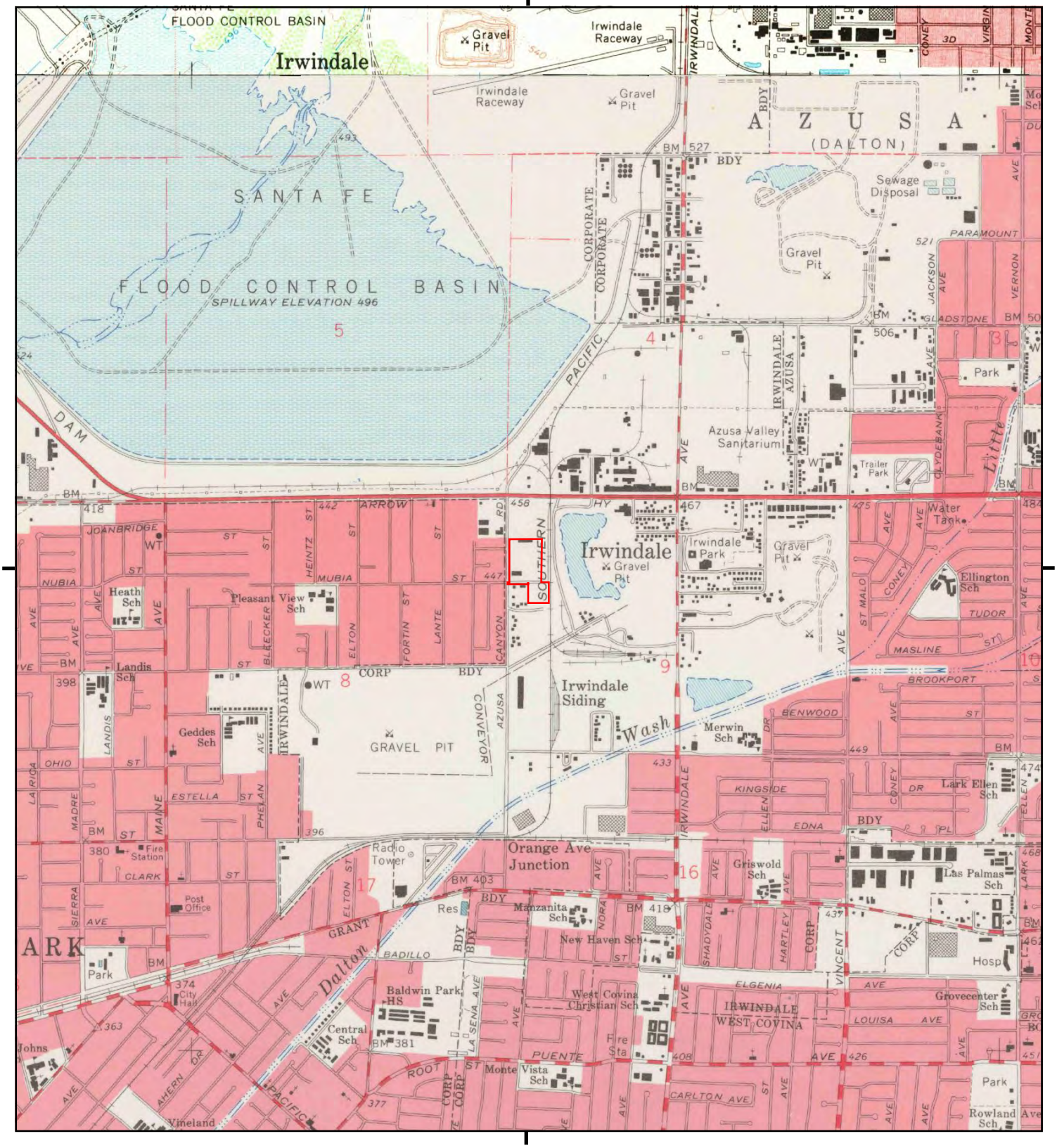
NW N NE
W E
SW S SE

TP, Baldwin Park, 1972, 7.5-minute
N, Azusa, 1972, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

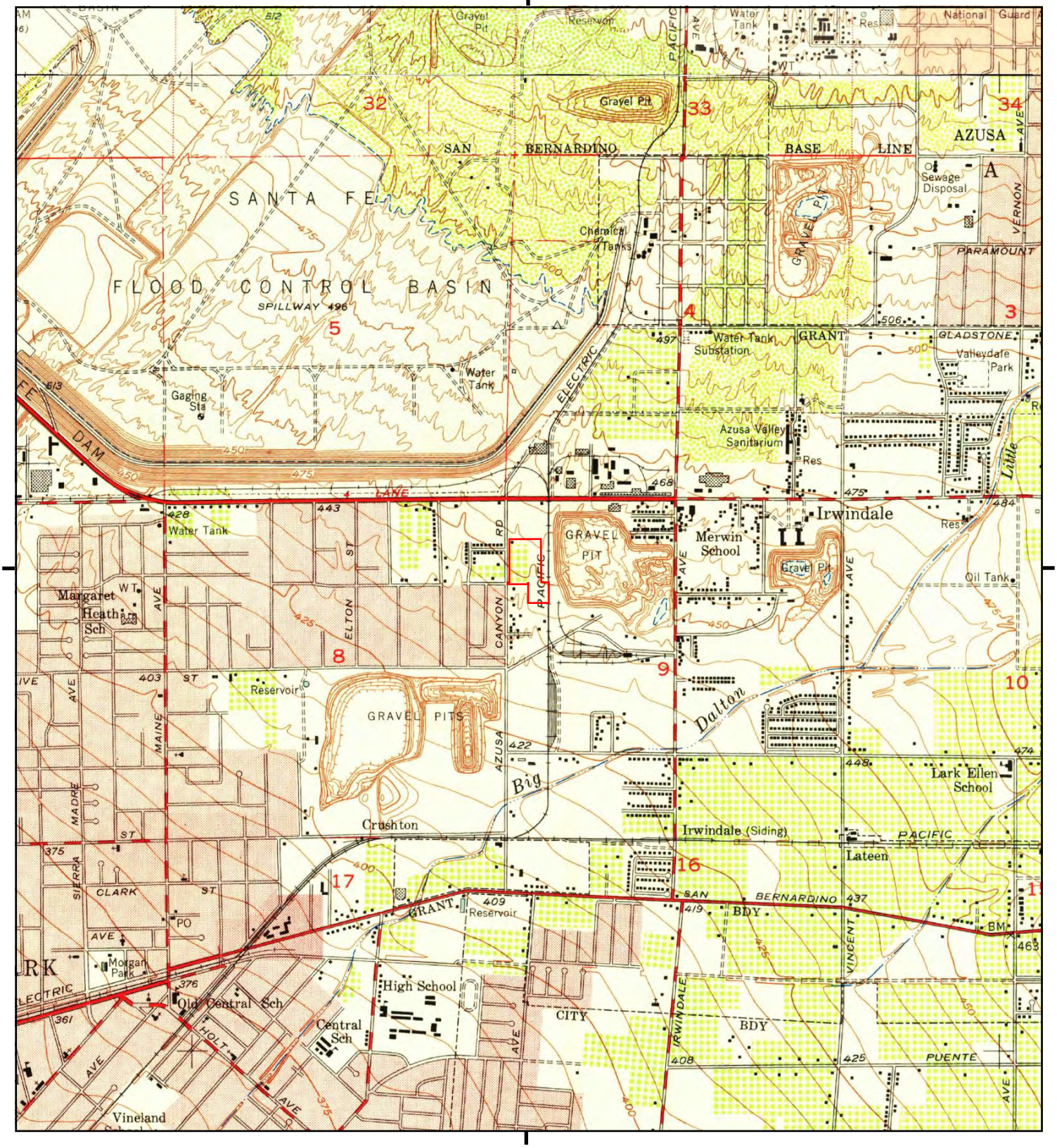
TP, Baldwin Park, 1966, 7.5-minute
N, Azusa, 1966, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N

Historical Topo Map

1953



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

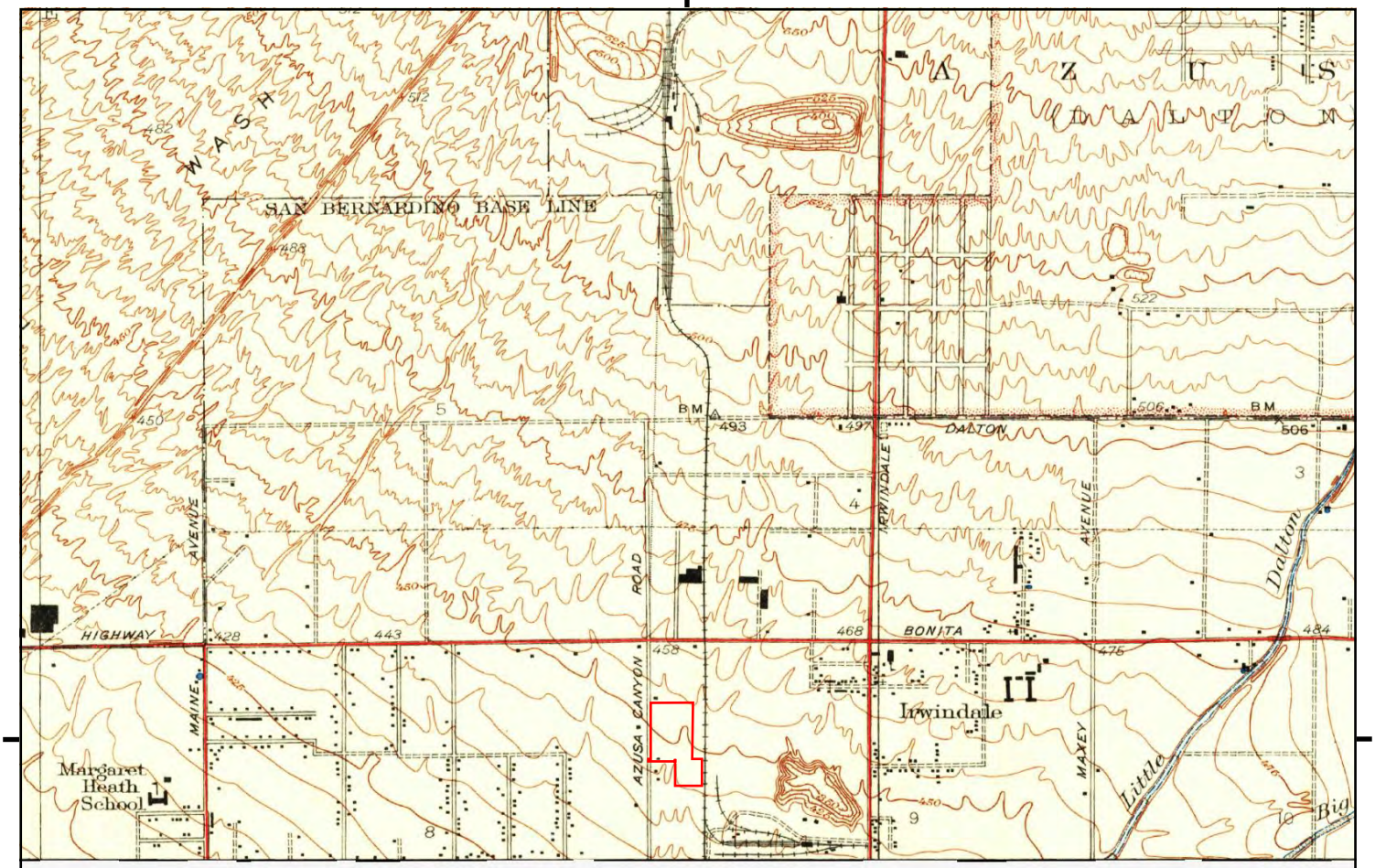
TP, Baldwin Park, 1953, 7.5-minute
N, Azusa, 1953, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N

Historical Topo Map

1939



UNMAPPED

This report includes information from the following map sheet(s).

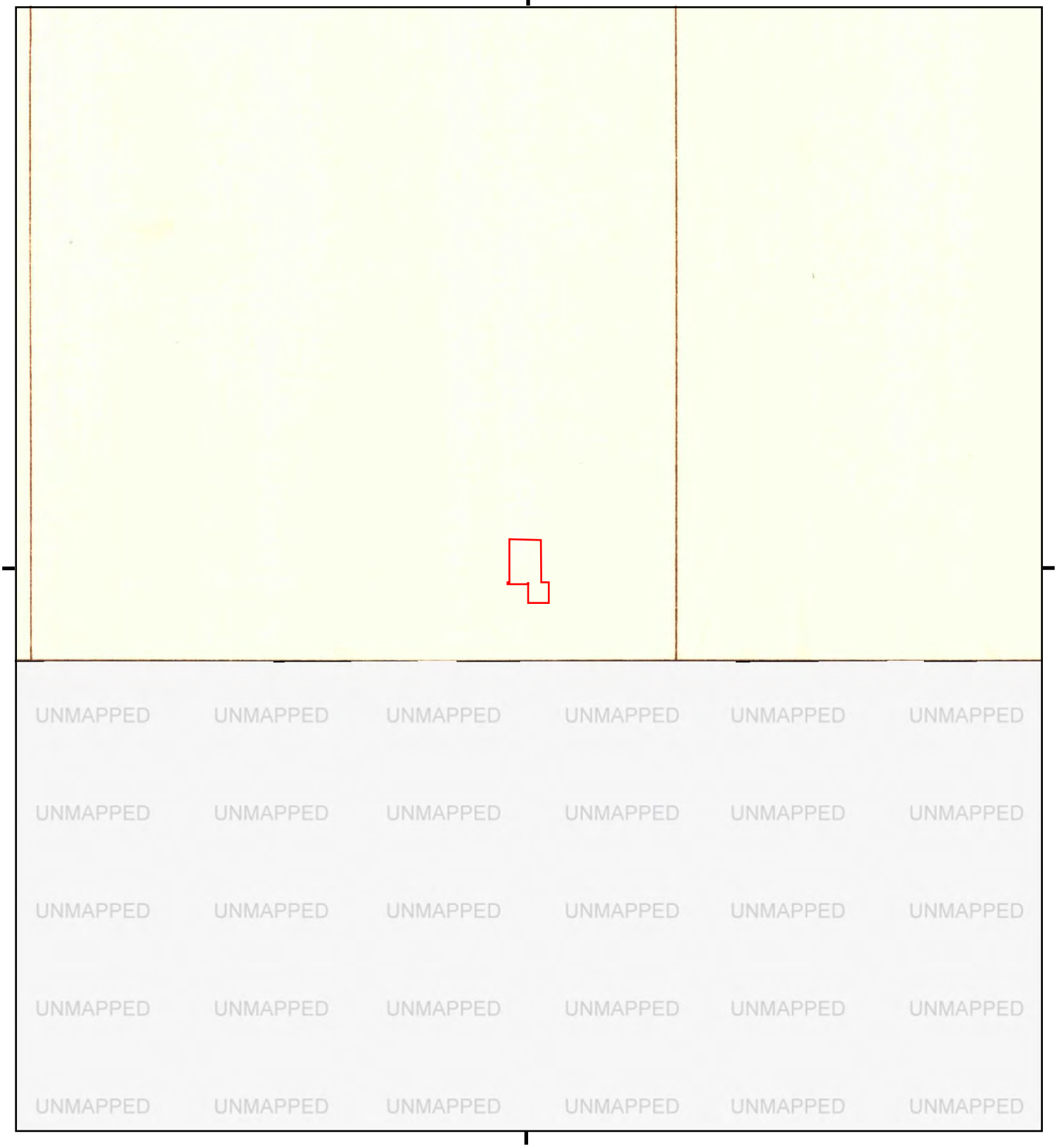
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Azusa, 1939, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



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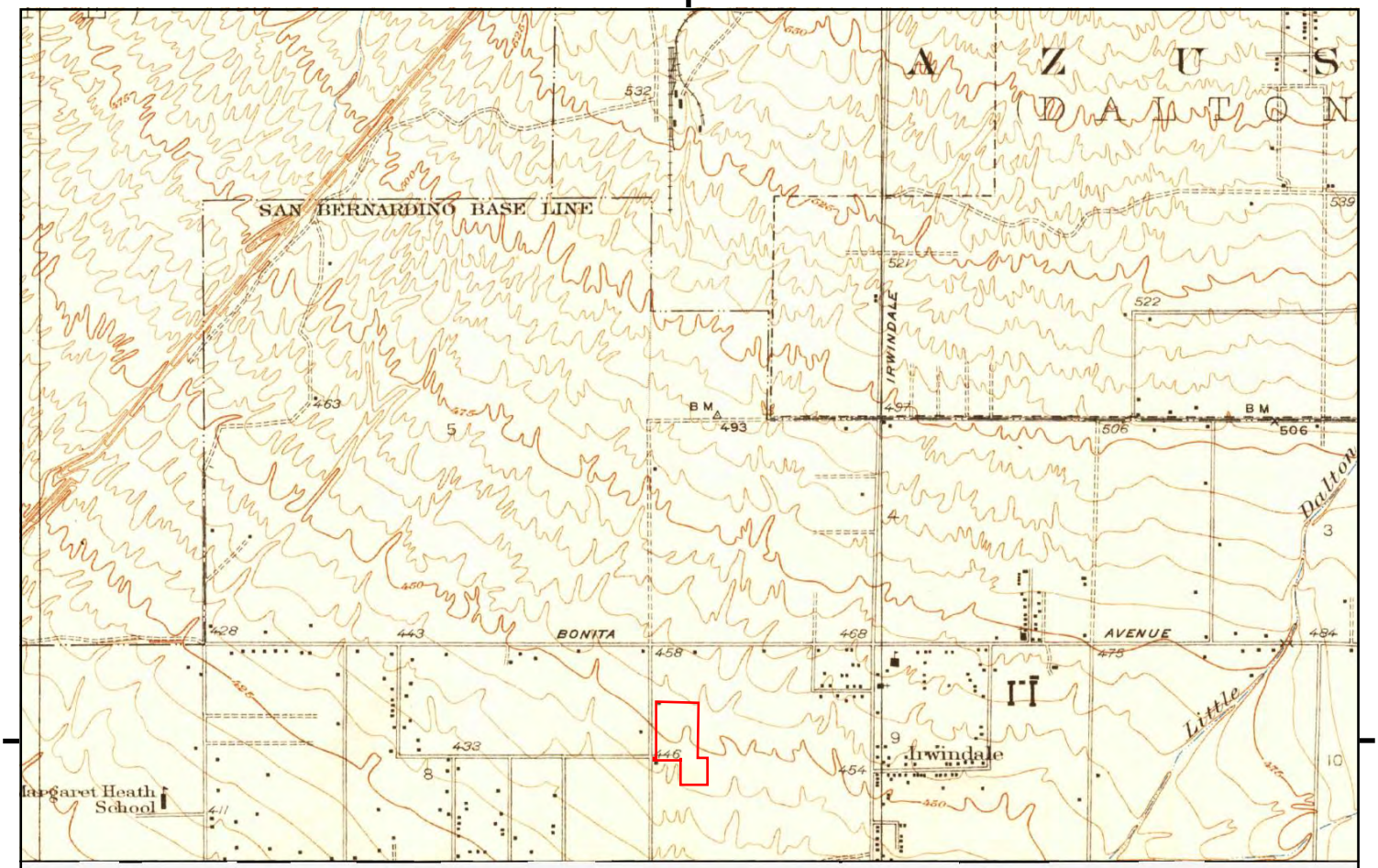
NW N NE
W E
SW S SE

TP, Azusa, 1933, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



UNMAPPED

This report includes information from the following map sheet(s).

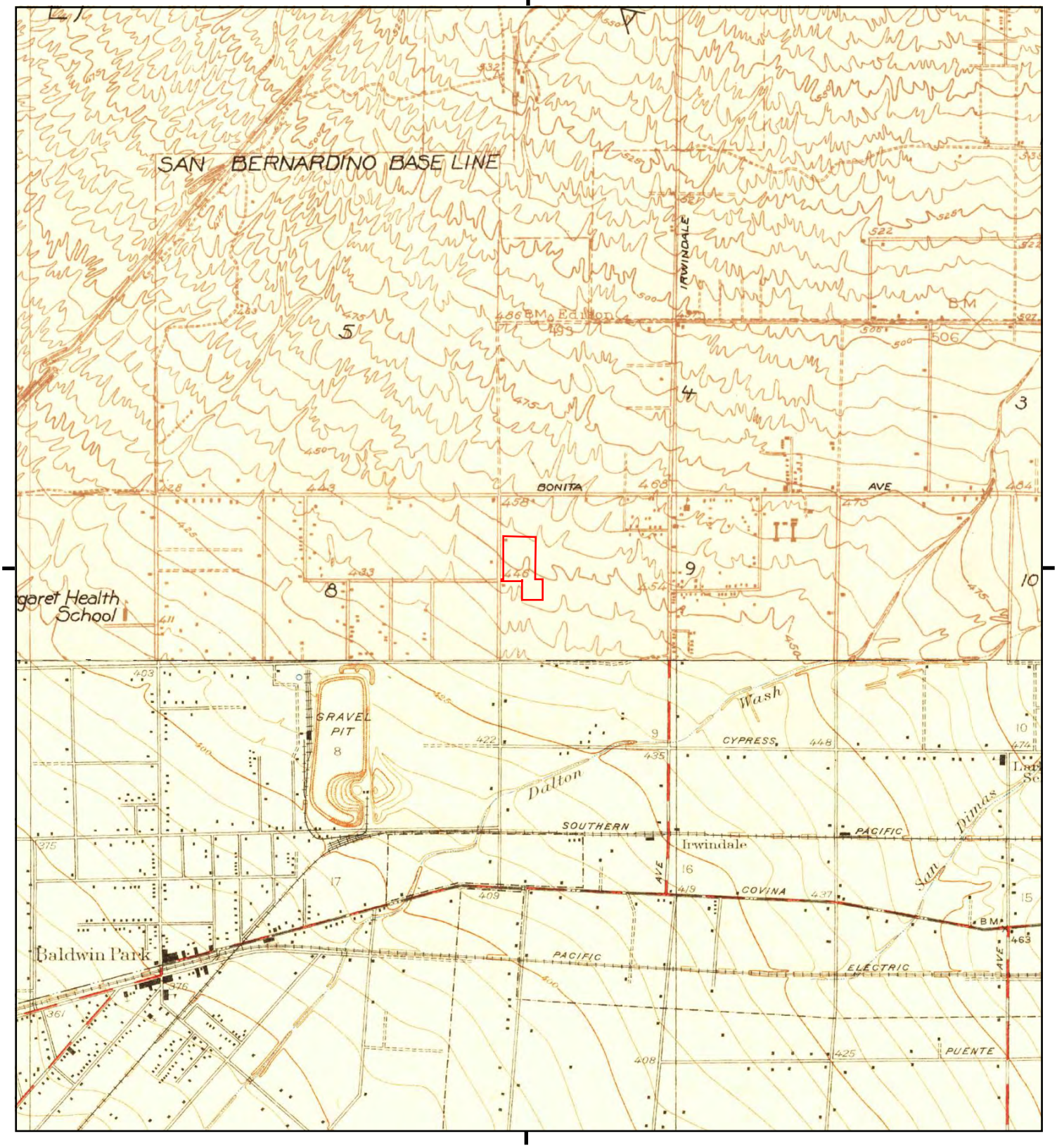
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Azusa, 1928, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



This report includes information from the following map sheet(s).

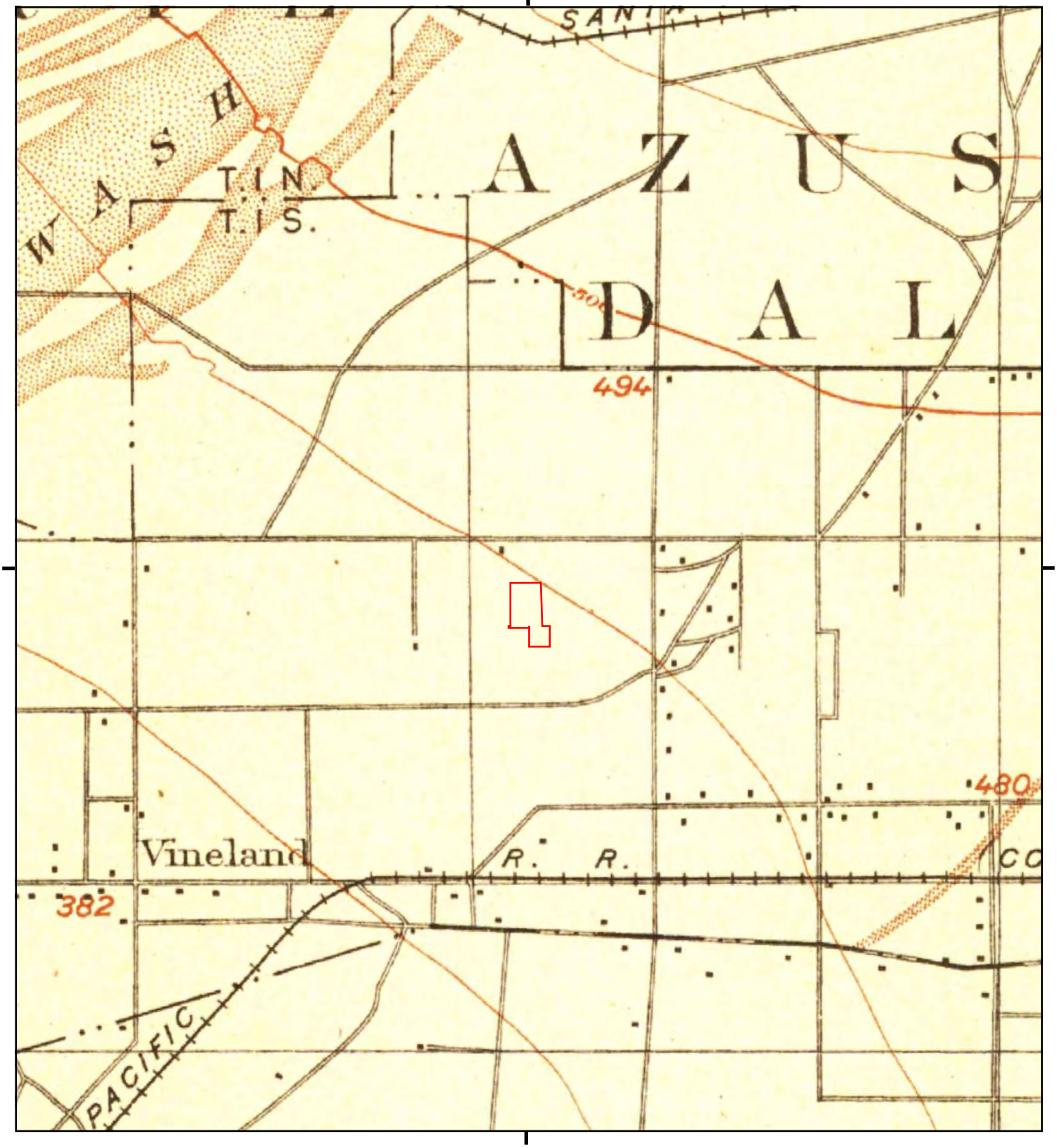
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Azusa, 1925, 7.5-minute
S, Puente, 1927, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



This report includes information from the following map sheet(s).

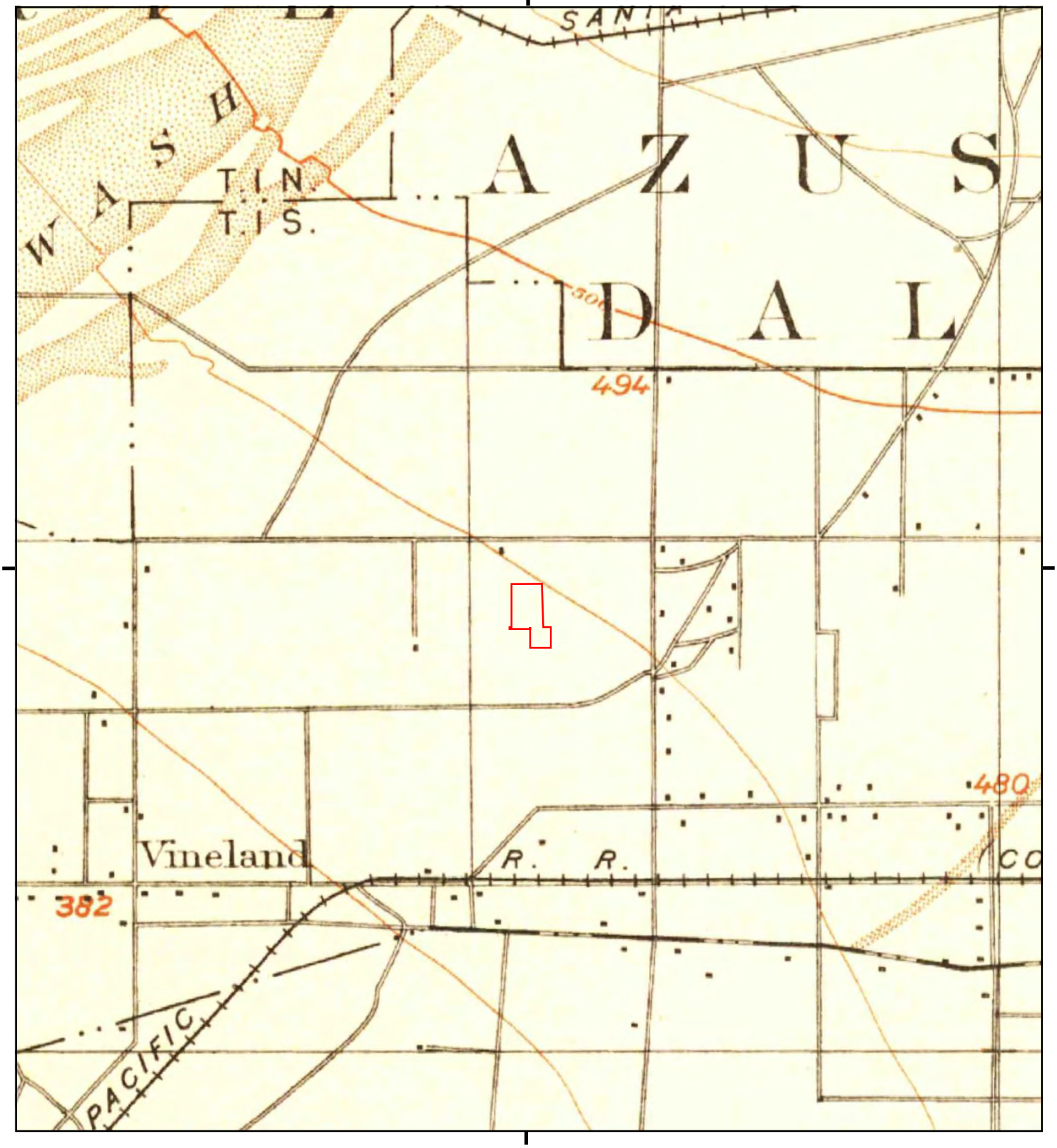
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pomona, 1904, 15-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



This report includes information from the following map sheet(s).

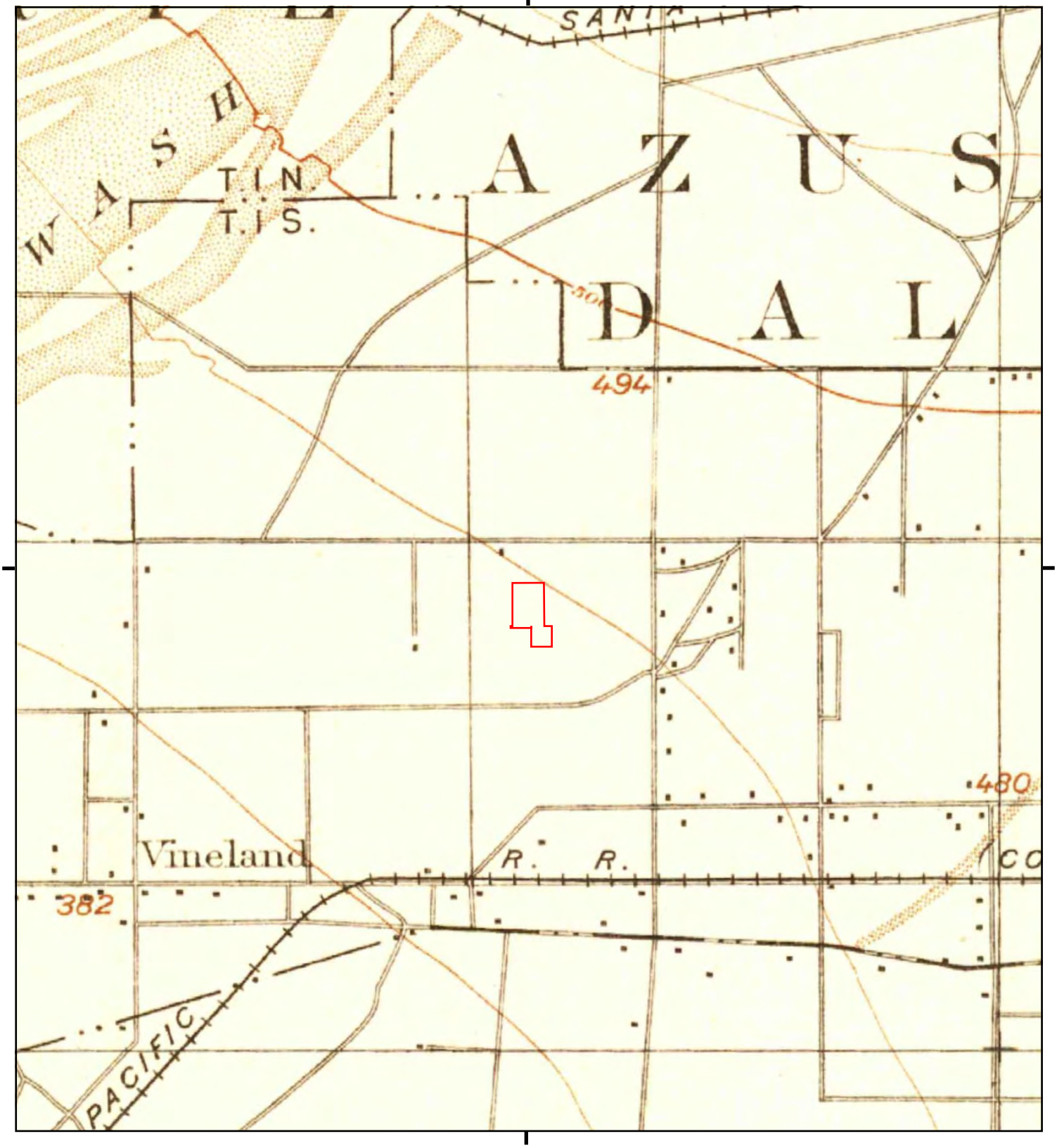
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pomona, 1898, 15-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



This report includes information from the following map sheet(s).

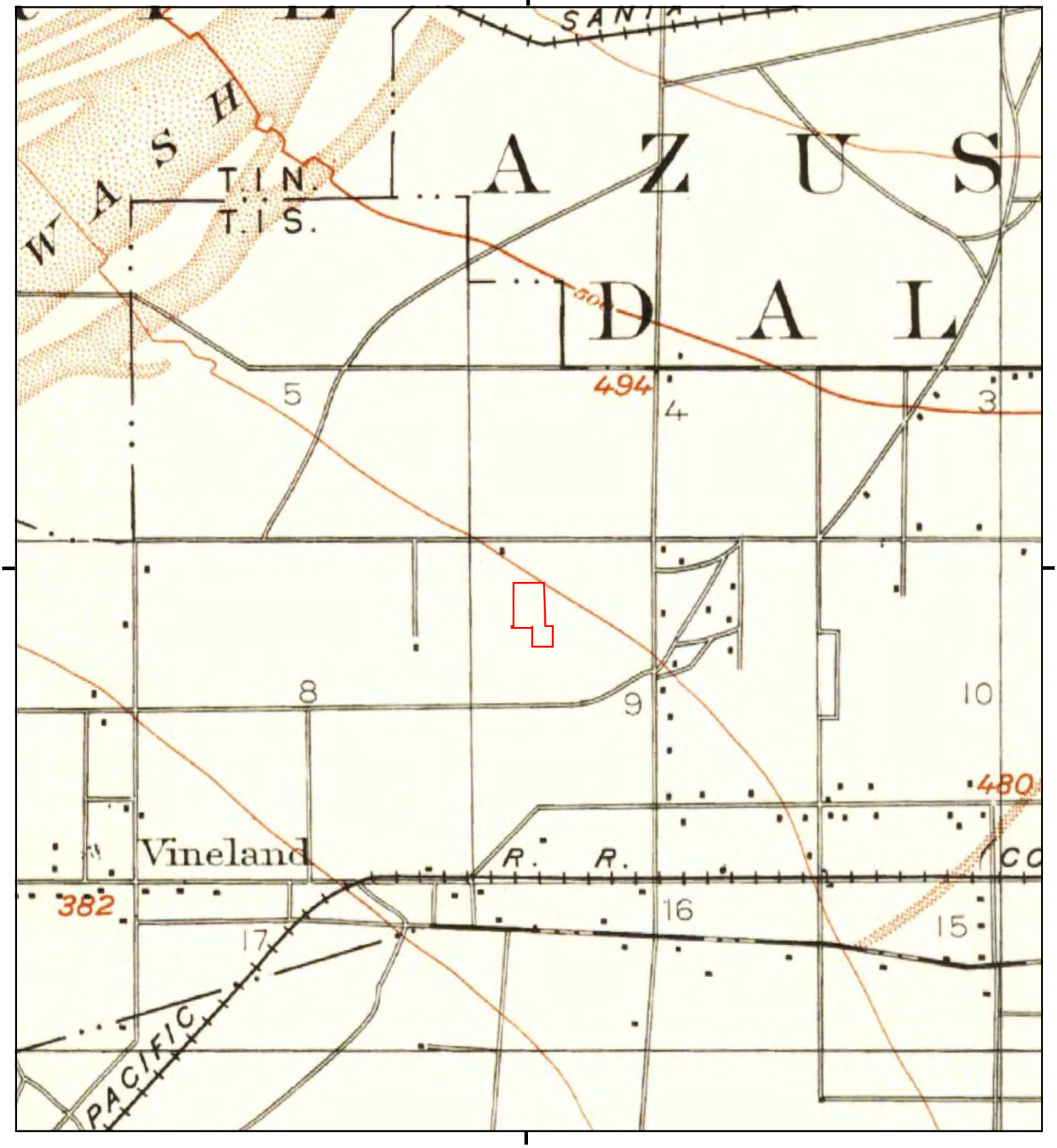
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pomona, 1897, 15-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pomona, 1894, 15-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N

Frontier Irwindale
5010 Azusa Canyon Road
Baldwin Park, CA 91706

Inquiry Number: 4765772.5
October 28, 2016

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2013	Cole Information Services	-	X	X	-
2008	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2006	Haines Company	-	-	-	-
2004	Haines Company	-	-	-	-
2003	Haines & Company	-	X	X	-
2001	Haines Company, Inc.	-	-	-	-
2000	Haines	-	-	-	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	-	X	X	-
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	-	-	-
1990	PACIFIC BELL WHITE PAGES	-	-	-	-
1986	Pacific Bell	-	-	-	-
1985	Pacific Bell	-	X	X	-
1981	Pacific Telephone	-	-	-	-
1980	Pacific Telephone	-	X	X	-
1976	R.L. Polk & Co Publishers	-	-	-	-
1975	Pacific Telephone	-	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	R. L. Polk & Co.	-	-	-	-
1970	Pacific Telephone	-	-	-	-
1969	Pacific Telephone	-	-	-	-
1967	R. L. Polk & Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1966	Pacific Telephone	-	X	X	-
1965	GTE	-	-	-	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	-	-	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	X	X	-
1958	Pacific Telephone	-	-	-	-
1957	Pacific Telephone	-	X	X	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Los Angeles Directory Co.	-	-	-	-
1950	Pacific Telephone	-	X	X	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Associated Telephone Company, Ltd.	-	-	-	-
1947	Pacific Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	R. L. Polk & Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	TRIBUNE-NEWS PUBLISHING CO.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
15558 Arrow Highway	Client Entered	
15562 Arrow Highway	Client Entered	
5102 Azusa Canyon Road	Client Entered	X
5104 Azusa Canyon Road	Client Entered	X
5106 Azusa Canyon Road	Client Entered	X
5108 Azusa Canyon Road	Client Entered	X
4954 Azusa Canyon Road	Client Entered	X
4946 Azusa Canyon Road	Client Entered	X
4938 Azusa Canyon Road	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

5010 Azusa Canyon Road
Baldwin Park, CA 91706

FINDINGS DETAIL

Target Property research detail.

AZUSA CANYON RD

5010 AZUSA CANYON RD

Year	*Uses*	*Source*
2008	VERIZON CALIFORNIA	Cole Information Services

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

ANNISTON AVE

4912 ANNISTON AVE

Year	Uses	Source
2003	ALONZO Alan	Haines & Company
	RUELAS Bemardo	Haines & Company
	MILLER Ronald	Haines & Company
	ESPARZAJaviar	Haines & Company
	JAUREGUI Juan	Haines & Company
	MILLER Marlene	Haines & Company
	CEJA Adolfo	Haines & Company
	DELGADO Anibal	Haines & Company
	GONZALEZ Ivan	Haines & Company
	DOMINGUEZJoe	Haines & Company
	BONILLA Lillian	Haines & Company
	AMAYA Nelson	Haines & Company
	MENDEZ Patricio	Haines & Company
	MONTIELDavid	Haines & Company
	SARALEGUI H	Haines & Company
	GARCIA Juan Luis	Haines & Company
	BAUTISTA Maria	Haines & Company
	BAUTISTA Ena	Haines & Company
	MAGALLON Martini	Haines & Company
	PRECIADOJorge	Haines & Company
	APARTMENTS BAUTISTA Adolofo	Haines & Company
1995	be La Mora Michael	Pacific Bell
1985	DE LA MORA MICHAEL	Pacific Bell

4913 ANNISTON AVE

Year	Uses	Source
1985	SESSUMS JULIE	Pacific Bell
1975	OJEDA BERNARD	Pacific Telephone

FINDINGS

4925 ANNISTON AVE

Year	Uses	Source
1995	California Drain Cleaning & Plumbing	Pacific Bell

4934 ANNISTON AVE

Year	Uses	Source
1995	Miller Ronald & Marlene	Pacific Bell
1985	WOODS MARLENE	Pacific Bell
1980	AL ROOFING ANNISTON AVE BALDWIN PARK	Pacific Telephone
	AL ROOFING & SIDING CO ANNISTON AVE BALDWIN PARK	Pacific Telephone

4935 ANNISTON AVE

Year	Uses	Source
1995	Preciado Jorge	Pacific Bell

4940 ANNISTON AVE

Year	Uses	Source
1980	FLORES ADELA ANNISTON AVE BALDWIN PARK	Pacific Telephone
	GUTIERREZ RAY ANNISTON AVE BALDWIN PARK	Pacific Telephone

4941 ANNISTON AVE

Year	Uses	Source
1985	CALDERON HERMINIO	Pacific Bell
1980	CALDERON HERMINIO ANNISTON AVE BALDWIN PARK	Pacific Telephone
1975	LANE RONALD	Pacific Telephone

4945 ANNISTON AVE

Year	Uses	Source
1980	DELLARIPA NICHOLAS A ANNISTON AVE BALDWIN PARK	Pacific Telephone
1975	DELLARIPA VICTOR A	Pacific Telephone

4946 ANNISTON AVE

Year	Uses	Source
1985	MEYERS MICHAEL	Pacific Bell
1980	MEYERS MICHAEL ANNISTON AVE BALDWIN PARK	Pacific Telephone
1975	MEYERS MICHAEL	Pacific Telephone

FINDINGS

4950 ANNISTON AVE

Year	Uses	Source
1975	GARCIA NOBERTO	Pacific Telephone

4956 ANNISTON AVE

Year	Uses	Source
2008	JUANITAS HOUSECLEANING	Cole Information Services

4957 ANNISTON AVE

Year	Uses	Source
1995	Israel Lourdes	Pacific Bell
1975	AYALA BENJAMIN BALDWIN PARK	Pacific Telephone
	AYALA CARMEN	Pacific Telephone

4962 ANNISTON AVE

Year	Uses	Source
2003	ESCOBEDO Juan Flores	Haines & Company
	FLORES Maria	Haines & Company
1980	GOMEZ JOSE ANNISTON AVE BALDWIN PARK	Pacific Telephone

4966 ANNISTON AVE

Year	Uses	Source
2003	RUIZ Dellino	Haines & Company
1995	Ruiz E Cov	Pacific Bell
	Ruiz E	Pacific Bell
	Rulz E	Pacific Bell
	Ruiz E	Pacific Bell
	Ruiz E	Pacific Bell
	Ruin E Whit	Pacific Bell
	Ruiz Donna	Pacific Bell
	Ruin Delfino A	Pacific Bell
1985	RUIZ DELFINO A	Pacific Bell
1980	RUIZ ALFONSO ANNISTON AVE BALDWIN PARK	Pacific Telephone

4967 ANNISTON AVE

Year	Uses	Source
2003	RANGELAscencion	Haines & Company

FINDINGS

4972 ANNISTON AVE

Year	Uses	Source
2003	ALCALAJose	Haines & Company
	CERVANTEZ Maria	Haines & Company

4973 ANNISTON AVE

Year	Uses	Source
2003	ANGELJosae	Haines & Company
1985	MONTOYA BENJAMIN N	Pacific Bell
1980	MONTOYA BENJAMIN N ANNISTON AVE BALDWIN PARK	Pacific Telephone
1975	MONTOYA BENJAMIN N	Pacific Telephone
1966	MONTOYA BENJ N	Pacific Telephone

ARROW HWY

15558 ARROW HWY

Year	Uses	Source
2013	VUCO PRECISION & MACHINERY	Cole Information Services
2008	INTERSTATE BATTSEY SYSTEM OF EAST SA	Cole Information Services

AZUSA CANYON RD

4811 AZUSA CANYON RD

Year	Uses	Source
2013	DONLENS JR MARKET	Cole Information Services
2008	DONIENS JR MARKET	Cole Information Services
2003	DONLENSJRMARKET	Haines & Company
1995	Donlens Jr Market	Pacific Bell
1985	DONLENS JR MARKET	Pacific Bell
	DONLENS SANDWICH SHOPPE I	Pacific Bell
1975	TOMICK S LIQUOR STORE	Pacific Telephone

4829 AZUSA CANYON RD

Year	Uses	Source
2003	CAZARES Andres	Haines & Company
1995	Cazares Andres	Pacific Bell
1985	CAZARES ANDRES	Pacific Bell

FINDINGS

4831 AZUSA CANYON RD

Year	Uses	Source
2003	CARRILLO Efrain	Haines & Company
1985	WHEELER PAM	Pacific Bell
	RAY DANL JR	Pacific Bell
1975	RAY DAN L PLASTERING	Pacific Telephone
1966	RAY DAN L PLASTRNG	Pacific Telephone

4839 AZUSA CANYON RD

Year	Uses	Source
2003	8 Sl LVACesar	Haines & Company
1985	BLEVINS LEO A	Pacific Bell
1975	BLEVINS LEO A	Pacific Telephone

4841 AZUSA CANYON RD

Year	Uses	Source
2003	OVILLASENOR Richard 00 O	Haines & Company

4851 AZUSA CANYON RD

Year	Uses	Source
2003	S 1 LVAE	Haines & Company
	MARQUEZ Salvador	Haines & Company
	:SILVA Eloisa	Haines & Company
1985	SILVA BENJAMIN	Pacific Bell

4853 AZUSA CANYON RD

Year	Uses	Source
2003	BLANCOJose	Haines & Company

4857 AZUSA CANYON RD

Year	Uses	Source
2003	ORTIZ Pablo	Haines & Company
1995	Ortlz Pablo	Pacific Bell

4863 AZUSA CANYON RD

Year	Uses	Source
2003	TOPETE Mar	Haines & Company
	DORADO Socorro	Haines & Company
	ORTIZ Hectr	Haines & Company
1995	Topete Maria	Pacific Bell
1975	RAMOS JOAQUIN	Pacific Telephone

FINDINGS

4903 AZUSA CANYON RD

Year	Uses	Source
2003	CHAVEZAguila Araceli	Haines & Company
	RENTERIA Raul	Haines & Company

4907 AZUSA CANYON RD

Year	Uses	Source
2003	CAMARENAJorge	Haines & Company
	a LEPE Santiago	Haines & Company
1985	BARRAGON JULIA R	Pacific Bell
1975	BARRAGON JULIA R	Pacific Telephone
1966	DOWNING PAULINE	Pacific Telephone

4913 AZUSA CANYON RD

Year	Uses	Source
2003	TAPIA Ramon	Haines & Company
1975	GLASS MICHAEL J	Pacific Telephone

4917 AZUSA CANYON RD

Year	Uses	Source
2003	GIL Francisco J	Haines & Company
	GUTIERREZ Luis	Haines & Company
1985	PINTO GUADALUPE	Pacific Bell
1966	DUNWOODY BENNIE	Pacific Telephone

4923 AZUSA CANYON RD

Year	Uses	Source
2003	HAMMOND Tommy	Haines & Company

4926 AZUSA CANYON RD

Year	Uses	Source
2013	MALCOLM DRILLING	Cole Information Services
2008	MALCOLM DRILLING CO INC	Cole Information Services
2003	MALCOLM DRILLING	Haines & Company
	COMPANY INC V G Z ENTERPRISES	Haines & Company
1995	CMZ Co Inc	Pacific Bell
	Zonver Drilling Co Inc	Pacific Bell
	Zook BJ Mon	Pacific Bell
1980	SELMAN S MACHINERY SERVICES AZUSA CANYON RD IRWINDALE	Pacific Telephone
1975	SELMAN S MACHINERY SERVICES	Pacific Telephone

FINDINGS

4929 AZUSA CANYON RD

Year	Uses	Source
2003	SLOCUM Patrick	Haines & Company
1975	JIMENEZ DANL B	Pacific Telephone

4935 AZUSA CANYON RD

Year	Uses	Source
2003	ANDRADE Manuel	Haines & Company
	GARCIA Celn	Haines & Company
1985	HUNTER FRED J	Pacific Bell
	MONTERO F A	Pacific Bell
1980	MONTERO F A AZUSA CANYON RD BALDWIN PARK	Pacific Telephone
	HUNTER FRED J AZUSA CANYON RD BALDWIN PARK	Pacific Telephone
1975	MONTERO F A BALDWIN PARK	Pacific Telephone
	HUNTER FRED J	Pacific Telephone

4936 AZUSA CANYON RD

Year	Uses	Source
2003	XXXX	Haines & Company

4938 AZUSA CANYON RD

Year	Uses	Source
2013	AAG ICE CREAM	Cole Information Services
	AAG ICE CREAM	Cole Information Services
2008	ALONDRAS ICE CREAM	Cole Information Services
	ALONDRAS ICE CREAM	Cole Information Services
2003	LOPEZGuslavo	Haines & Company
1995	Rodriguez JG Trucking	Pacific Bell
1985	RODRIGUEZ J G TRUCKING	Pacific Bell
1980	BICE D L TRUCKING CO AZUSA CANYON RD IRWINDALE	Pacific Telephone
	BICE D L TRUCKING CO AZUSA CANYON RD IRWINDALE	Pacific Telephone
1975	BICE D L TRUCKING CO	Pacific Telephone
	BICE D L TRUCKING CO	Pacific Telephone

4939 AZUSA CANYON RD

Year	Uses	Source
2003	RODRIGUEZ Jorge	Haines & Company

FINDINGS

4945 AZUSA CANYON RD

Year	Uses	Source
1985	CLEGG ALBERT C & SONS	Pacific Bell
1980	CLEGG ALBERT C & SONS AZUSA CANYON RD BALDWIN PARK	Pacific Telephone
1975	CLEGG ALBERT	Pacific Telephone

4946 AZUSA CANYON RD

Year	Uses	Source
2013	ARROW ENGINEERING	Cole Information Services
	ARROW ENGINEERING	Cole Information Services
2008	ARROW ENGINEERING	Cole Information Services
	ARROW ENGINEERING	Cole Information Services
2003	XXXX	Haines & Company
1995	Hager Construction	Pacific Bell
	Arrow Engineering	Pacific Bell
	Hager D	Pacific Bell
1985	ARROW ENGINEERING	Pacific Bell
	HAGER CONSTRUCTION	Pacific Bell
1980	SRCO INC AZUSA CANYON RD IRWINDALE	Pacific Telephone
	SRCO INC AZUSA CANYON RD IRWINDALE	Pacific Telephone
	ARROW ENGINEERING AZUSA CANYON RD IRWINDALE	Pacific Telephone
1975	ABJ ENTERPRISES	Pacific Telephone

4951 AZUSA CANYON RD

Year	Uses	Source
2003	DELARA Socorro	Haines & Company
1975	RAWLS M BALDWIN PARK	Pacific Telephone

4954 AZUSA CANYON RD

Year	Uses	Source
2013	SAMS FOREIGN & DOMESTIC AUTO CENTER	Cole Information Services
	SAMS FOREIGN & DOMESTIC AUTO CENTER	Cole Information Services
2008	SAMS FOREIGN & DOM AUTO CENTER	Cole Information Services
	SAMS FOREIGN & DOM AUTO CENTER	Cole Information Services
2003	SAMS	Haines & Company
	FOREIGN&DOMESTIC	Haines & Company

FINDINGS

Year	Uses	Source
2003	AUTO CT	Haines & Company
1995	C MC Engineering	Pacific Bell
	CMC Intematl Development Inc	Pacific Bell
	O & B	Pacific Bell
	E&B Air Conditioning	Pacific Bell
1985	CM C ENGINEERING	Pacific Bell
	IMCO	Pacific Bell
1980	C M C ENGINEERING AZUSA CANYON RD IRWINDALE	Pacific Telephone
	IMCO-INMAN MARINE CORP AZUSA CANYON RD IRWINDALE	Pacific Telephone
1975	BOOM & CART CO	Pacific Telephone
1966	MEISSNER LEONARD	Pacific Telephone

4957 AZUSA CANYON RD

Year	Uses	Source
2003	0 GAPACETEJesus	Haines & Company
1995	Capacete Jesus	Pacific Bell
1985	CAPACETE JESUS	Pacific Bell
1980	CAPACETE JESUS AZUSA CANYON RD BALDWIN PARK	Pacific Telephone

4983 AZUSA CANYON RD

Year	Uses	Source
2003	INDSTRL PAVING INC	Haines & Company
	PYRAMID RESOURCES	Haines & Company

5011 AZUSA CANYON RD

Year	Uses	Source
2003	0 ARROYO Hector	Haines & Company
1995	Arroyo Helen	Pacific Bell
	Arroyo Hector	Pacific Bell
1985	ARROYO HECTOR	Pacific Bell
1980	ARROYO HECTOR AZUSA CANYON RD BALDWIN PARK	Pacific Telephone

5023 AZUSA CANYON RD

Year	Uses	Source
2003	XXXX	Haines & Company
1995	Norris Roy A	Pacific Bell
1980	NORRIS E A PLUMBING CO AZUSA CANYON RD BALDWIN PARK	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	NORRIS E A PLUMBING CO	Pacific Telephone

5029 AZUSA CANYON RD

Year	Uses	Source
2003	BRYAN Karl	Haines & Company
1995	Bryan Kari D	Pacific Bell
1985	BRYAN KARL D	Pacific Bell
1980	BRYAN KARL D AZUSA CANYON RD BALDWIN PARK	Pacific Telephone
1975	BRYAN KARL D	Pacific Telephone

5035 AZUSA CANYON RD

Year	Uses	Source
2003	BRYANKarl	Haines & Company

5041 AZUSA CANYON RD

Year	Uses	Source
2003	XXXX	Haines & Company
1995	Solis George Torres	Pacific Bell

5102 AZUSA CANYON RD

Year	Uses	Source
2013	ESMOND NATURAL USA INC	Cole Information Services
	ESMOND NATURAL USA INC	Cole Information Services
2008	ESMOND NATURAL USA INC	Cole Information Services
	ESMOND NATURAL USA INC	Cole Information Services
2003	THOUSANDOAKS	Haines & Company
1995	Ford Printing & Mailing Inc	Pacific Bell
	Ford Printing & Mailing Inc	Pacific Bell
1985	FORD PRINTING & MAILING INC	Pacific Bell
	FORD PRINTING & MAILING	Pacific Bell

5104 AZUSA CANYON RD

Year	Uses	Source
2003	VINIIMPORTS	Haines & Company

5106 AZUSA CANYON RD

Year	Uses	Source
2013	FINEPITCH ELECTRONIC ASSEMBL	Cole Information Services
	FINEPITCH ELECTRONIC ASSEMBL	Cole Information Services

FINDINGS

Year	Uses	Source
2008	YUTAKA ELECTRIC INTERNATIONAL INC	Cole Information Services
	YEC AMERICA INC	Cole Information Services
	YUTAKA ELECTRIC INTERNATIONAL INC	Cole Information Services
	YEC AMERICA INC	Cole Information Services
2003	FALCON ELECTRIC 626 962 777mo + YEC AMERICA INC	Haines & Company
	INTL INC	Haines & Company
	YUTAKA ELECTRIC	Haines & Company

5108 AZUSA CANYON RD

Year	Uses	Source
2013	PENAVICO GROUP INTERNATL	Cole Information Services
	PENAVICO GROUP INTERNATL	Cole Information Services
2008	TOP THREE ENTERPRISES INC	Cole Information Services
	PENAVICO GROUP INTERNATIONAL	Cole Information Services
	TOP THREE ENTERPRISES INC	Cole Information Services
	PENAVICO GROUP INTERNATIONAL	Cole Information Services
2003	INDUSTRIES	Haines & Company
	CREATIVE MOTION	Haines & Company
1985	MEDI-CURE FOAM PRODUCTS INC	Pacific Bell

5110 AZUSA CANYON RD

Year	Uses	Source
2013	GOLDEN GRAPHIX & PRINTING	Cole Information Services
	TAG FACTORY	Cole Information Services
2008	GG PRINTING INC	Cole Information Services
2003	AZUSACNYN RD 91706 CONT	Haines & Company
	GOLDEN PAPER	Haines & Company
	PACKAGING INC	Haines & Company
1985	CLIPPER ABRASIVES	Pacific Bell

5112 AZUSA CANYON RD

Year	Uses	Source
2013	WELSON & YORK	Cole Information Services
2008	WELSON & YORK	Cole Information Services
2003	XXXX	Haines & Company

FINDINGS

5114 AZUSA CANYON RD

Year	Uses	Source
2013	SUNMOON INC	Cole Information Services
2008	SUNMOON INC	Cole Information Services

5115 AZUSA CANYON RD

Year	Uses	Source
2003	XXXX	Haines & Company
1995	Scan Tech Color Incorporated	Pacific Bell
1985	WALLACE SAM P CO	Pacific Bell
1975	GALLOWAY G W CO	Pacific Telephone
	EILERS CONSTRUCTION CO	Pacific Telephone

5116 AZUSA CANYON RD

Year	Uses	Source
2013	FALCON ELECTRIC	Cole Information Services
2008	SPRINGFORD INC	Cole Information Services
	LAKEWOOD IMPORTS INC	Cole Information Services
2003	IMPERL BILLIARDS	Haines & Company

5119 AZUSA CANYON RD

Year	Uses	Source
2013	ORECO DUCT SYSTEMS	Cole Information Services
	MEZ INDUSTRIES	Cole Information Services
2008	MEZ INDUSTRIES INC	Cole Information Services
2003	MEZ INDUSTRIES	Haines & Company
	ORECO DUCT SYSTEMS	Haines & Company

Azusa Canyon Road

4938 Azusa Canyon Road

Year	Uses	Source
2003	LOPEZGuslavo	Haines & Company
1995	Rodriguez JG Trucking	Pacific Bell
1985	RODRIGUEZ J G TRUCKING	Pacific Bell
1980	BICE D L TRUCKING CO AZUSA CANYON RD IRWINDALE	Pacific Telephone
	BICE D L TRUCKING CO AZUSA CANYON RD IRWINDALE	Pacific Telephone
1975	BICE D L TRUCKING CO	Pacific Telephone
	BICE D L TRUCKING CO	Pacific Telephone

FINDINGS

4946 Azusa Canyon Road

Year	Uses	Source
2003	XXXX	Haines & Company
1995	Hager Construction	Pacific Bell
	Hager D	Pacific Bell
	Arrow Engineering	Pacific Bell
1985	ARROW ENGINEERING	Pacific Bell
	HAGER CONSTRUCTION	Pacific Bell
1980	SRCO INC AZUSA CANYON RD IRWINDALE	Pacific Telephone
	ARROW ENGINEERING AZUSA CANYON RD IRWINDALE	Pacific Telephone
	SRCO INC AZUSA CANYON RD IRWINDALE	Pacific Telephone
1975	ABJ ENTERPRISES	Pacific Telephone

4954 Azusa Canyon Road

Year	Uses	Source
2003	SAMS	Haines & Company
	FOREIGN&DOMESTIC	Haines & Company
	AUTO CT	Haines & Company
1995	C MC Engineering	Pacific Bell
	CMC Intematl Development Inc	Pacific Bell
	O & B	Pacific Bell
	E&B Air Conditioning	Pacific Bell
1985	IMCO	Pacific Bell
	CM C ENGINEERING	Pacific Bell
1980	IMCO-INMAN MARINE CORP AZUSA CANYON RD IRWINDALE	Pacific Telephone
	C M C ENGINEERING AZUSA CANYON RD IRWINDALE	Pacific Telephone
1975	BOOM & CART CO	Pacific Telephone
1966	MEISSNER LEONARD	Pacific Telephone
1960	MERJIL JULIAN JR	Pacific Telephone
1957	DANLEY MELBA	Pacific Telephone

5102 Azusa Canyon Road

Year	Uses	Source
2003	THOUSANDOAKS	Haines & Company
1995	Ford Printing & Mailing Inc	Pacific Bell
	Ford Printing & Mailing Inc	Pacific Bell
1985	FORD PRINTING & MAILING	Pacific Bell

Year	Uses	Source
1985	FORD PRINTING & MAILING INC	Pacific Bell

5104 Azusa Canyon Road

Year	Uses	Source
2003	VINIIMPORTS	Haines & Company

5106 Azusa Canyon Road

Year	Uses	Source
2003	FALCON ELECTRIC 626 962 777mo + YEC AMERICA INC	Haines & Company
	YUTAKA ELECTRIC	Haines & Company
	INTL INC	Haines & Company
1995	Horizon Enterprises	Pacific Bell
	i Horizon House Microwave Inc	Pacific Bell
	i Horizon Landscaing	Pacific Bell

5108 Azusa Canyon Road

Year	Uses	Source
2003	CREATIVE MOTION	Haines & Company
	INDUSTRIES	Haines & Company
1985	MEDI-CURE FOAM PRODUCTS INC	Pacific Bell

DEVANAH ST

15412 DEVANAH ST

Year	Uses	Source
2003	COATES 3randon 00 a	Haines & Company
1957	THOMPSON LEONARD F	Pacific Telephone

15413 DEVANAH ST

Year	Uses	Source
2003	MOUSSALLY Daoud	Haines & Company
1985	MOUSSALLY DAOUD	Pacific Bell
1975	GIBSON LARRY	Pacific Telephone
1966	PRINGLE ROY L	Pacific Telephone

15418 DEVANAH ST

Year	Uses	Source
2003	LAMADRID Rena	Haines & Company

FINDINGS

15421 DEVANAH ST

Year	Uses	Source
2003	ROBSON Roberd	Haines & Company

15422 DEVANAH ST

Year	Uses	Source
2003	GONZALEZ MT	Haines & Company

15428 DEVANAH ST

Year	Uses	Source
2003	GENARDINI Bradley	Haines & Company
1975	HERNANDEZ R	Pacific Telephone

15499 DEVANAH ST

Year	Uses	Source
2003	VENEGAS Narceso	Haines & Company

DEVANNAH ST

15413 DEVANNAH ST

Year	Uses	Source
2008	PHARAOHS FINE GIFTS	Cole Information Services

E NUBIA ST

15417 E NUBIA ST

Year	Uses	Source
1960	CARRELL KENNETH K	Pacific Telephone

15427 E NUBIA ST

Year	Uses	Source
1957	TUTHILL WM R	Pacific Telephone

15431 E NUBIA ST

Year	Uses	Source
1966	NEBEL MARVIN L	Pacific Telephone
1957	CARRELL JAY	Pacific Telephone

15437 E NUBIA ST

Year	Uses	Source
1960	BOURGEOIS EDW T	Pacific Telephone
1957	DOTTER CLAIRE M	Pacific Telephone

FINDINGS

LA SENA AVE

4934 LA SENA AVE

Year	*Uses*	*Source*
2003	GASPAR Isabel	Haines & Company
1995	GASPAR ISABEL	Pacific Bell
	Gaspar Isabel	Pacific Bell
	Gaspar Michael	Pacific Bell
	Gaspar M	Pacific Bell
1985	GASPAR ISABEL	Pacific Bell

4939 LA SENA AVE

Year	*Uses*	*Source*
2003	MIRANDA Ysidro	Haines & Company

4940 LA SENA AVE

Year	*Uses*	*Source*
1975	FABELA LUIS	Pacific Telephone

4946 LA SENA AVE

Year	*Uses*	*Source*
2003	OLMOS Ruben	Haines & Company
1985	GUERRA ARMANDO	Pacific Bell
1975	RODRIGUEZ RAUL	Pacific Telephone

4950 LA SENA AVE

Year	*Uses*	*Source*
2003	IBANEZCervando	Haines & Company
1995	I Ibanez Cervando	Pacific Bell

4951 LA SENA AVE

Year	*Uses*	*Source*
2003	ROBLES Henberto	Haines & Company

4956 LA SENA AVE

Year	*Uses*	*Source*
2003	GRIJALVA Maria	Haines & Company
1985	SOTELO ANGEL	Pacific Bell
1980	SOTELO ANGEL LA SENA AVE BALDWIN PARK	Pacific Telephone
1975	NUNEZ STEVEN M	Pacific Telephone

FINDINGS

4957 LA SENA AVE

Year	Uses	Source
2003	LOZA Richard	Haines & Company

4962 LA SENA AVE

Year	Uses	Source
2003	0 HUDEC Grace	Haines & Company
1995	Hudelson D& C LH	Pacific Bell
	Hudec Grace	Pacific Bell
1985	HUDEC GRACE	Pacific Bell

4963 LA SENA AVE

Year	Uses	Source
2003	HERNANDEZ Nicolas	Haines & Company
1975	HOY RUTH	Pacific Telephone

5002 LA SENA AVE

Year	Uses	Source
2003	TORRES Rigoberto	Haines & Company
1975	WOODRUFF GEORGE W	Pacific Telephone

5005 LA SENA AVE

Year	Uses	Source
2003	8 HERRERA Henry	Haines & Company

5010 LA SENA AVE

Year	Uses	Source
2003	SILVAMana	Haines & Company

5011 LA SENA AVE

Year	Uses	Source
2003	RAMIREZ Rafael	Haines & Company
1995	RAMERES RAFAEL	Pacific Bell
1985	RAMIREZ RAFAEL	Pacific Bell
1980	RAMIREZ RAFAEL LA SENA AVE BALDWIN PARK	Pacific Telephone

5012 LA SENA AVE

Year	Uses	Source
2003	SILVA Marha	Haines & Company

FINDINGS

5019 LA SENA AVE

Year	Uses	Source
2003	PEREZ Francisco	Haines & Company
1995	Shipman Nadine 3	Pacific Bell
	Shipnian May	Pacific Bell
	Shipman Pete	Pacific Bell
1985	SHIPMAN MAY BALDWIN PARK	Pacific Bell
1980	SHIPMAN MAY LA SENA AVE BALDWIN PARK	Pacific Telephone
1975	SHIPMAN MAY	Pacific Telephone

5020 LA SENA AVE

Year	Uses	Source
2003	OPORTILLO Hugo	Haines & Company

5025 LA SENA AVE

Year	Uses	Source
2003	OMCKEE Cecelia	Haines & Company

5028 LA SENA AVE

Year	Uses	Source
2003	FLORES Jose	Haines & Company
1995	Mendoza Perpetua	Pacific Bell
	Mendoza Pepe	Pacific Bell
	Mendoza Pedro	Pacific Bell
	MENDOZA PEDRO	Pacific Bell
1985	MENDOZA PEDRO	Pacific Bell
1980	MEEK ODES B LA SENA AVE BALDWIN PARK	Pacific Telephone
1975	MEEK ODES B	Pacific Telephone

5029 LA SENA AVE

Year	Uses	Source
2003	RODRIGUEZ Vicente	Haines & Company
1975	SEABOLT DAVID	Pacific Telephone

5033 LA SENA AVE

Year	Uses	Source
2003	LA SENA AV 91706 CONT	Haines & Company
	DURAN Maria	Haines & Company
1980	VALDIVIA LEONDRO LA SENA AVE BALDWIN PARK	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	AMAYA RICHARD I	Pacific Telephone

5034 LA SENA AVE

Year	Uses	Source
2003	HERNANDEZGilber	Haines & Company
1975	HERNANDEZ LILLIAN	Pacific Telephone

5039 LA SENA AVE

Year	Uses	Source
2003	0 DIAZRefugio	Haines & Company
1985	STUMP OREN D	Pacific Bell
1980	STUMP OREN D LA SENA AVE BALDWIN PARK	Pacific Telephone
1975	STUMP OREN D	Pacific Telephone

5045 LA SENA AVE

Year	Uses	Source
2003	JOPLIN Paul D	Haines & Company
1995	JOPLIN PAULD	Pacific Bell
	Joplin Paul D	Pacific Bell
1985	JOPLIN PAUL D BALDWIN PARK	Pacific Bell
1980	JOPLIN PAUL D LA SENA AVE BALDWIN PARK	Pacific Telephone
1975	JOPLIN PAUL D	Pacific Telephone

5051 LA SENA AVE

Year	Uses	Source
2003	MUNIZ Cados	Haines & Company
1985	HERGENREDER WILLIAM N	Pacific Bell
1975	HERGENREDER WILLIAM N	Pacific Telephone

5057 LA SENA AVE

Year	Uses	Source
2003	JOHNSON Sharon	Haines & Company
1985	JOHNSON SHARON S	Pacific Bell
1980	JOHNSON SHARON S LA SENA AVE BALDWIN PARK	Pacific Telephone
1975	JOHNSON SHARON S	Pacific Telephone

5063 LA SENA AVE

Year	Uses	Source
2003	TEAGLE Allen W	Haines & Company

Year	Uses	Source
1995	TEAGLA ALIEN W	Pacific Bell
1985	TEAGLE ALLEN W	Pacific Bell
1980	TEAGLE ALLEN W LA SENA AVE BALDWIN PARK	Pacific Telephone
1975	TEAGLE ALLEN W	Pacific Telephone

N AZUSA CANYON RD

4823 N AZUSA CANYON RD

Year	Uses	Source
1960	DUNKLE ARNOLD	Pacific Telephone
1957	DUNKLE ARNOLD	Pacific Telephone

4829 N AZUSA CANYON RD

Year	Uses	Source
1966	BASHAM W E	Pacific Telephone
1960	BASHAM W E	Pacific Telephone

4831 N AZUSA CANYON RD

Year	Uses	Source
1957	THOMPSON RICHARD R	Pacific Telephone

4839 N AZUSA CANYON RD

Year	Uses	Source
1957	BLEVINS LEO A JR	Pacific Telephone

4841 N AZUSA CANYON RD

Year	Uses	Source
1960	HALL CHAS A	Pacific Telephone

4851 N AZUSA CANYON RD

Year	Uses	Source
1966	LOWERY THURMAN A	Pacific Telephone
1960	LOWERY THURMAN A	Pacific Telephone
1957	ROSSI ALEX	Pacific Telephone

4853 N AZUSA CANYON RD

Year	Uses	Source
1966	GUERRA PEDRO G	Pacific Telephone
1960	STANDIFER FRED E	Pacific Telephone
	LOFTY CHAS E	Pacific Telephone

FINDINGS

Year	Uses	Source
1957	REITZ EUGENE H	Pacific Telephone

4863 N AZUSA CANYON RD

Year	Uses	Source
1966	MAINEZ NARCIZO	Pacific Telephone

4903 N AZUSA CANYON RD

Year	Uses	Source
1966	MEIJER RENE L	Pacific Telephone
1957	CLARIDGE RONALD E	Pacific Telephone

4907 N AZUSA CANYON RD

Year	Uses	Source
1960	BAXLEY FULTON A	Pacific Telephone

4913 N AZUSA CANYON RD

Year	Uses	Source
1966	EHLERS MARY JANE	Pacific Telephone
1960	BELLEAU HENRY C	Pacific Telephone
1957	BELLEAU HENRY C	Pacific Telephone

4917 N AZUSA CANYON RD

Year	Uses	Source
1966	MONTEY EDW J	Pacific Telephone
1960	CRIDER RALPH	Pacific Telephone
1957	MONTEY EDW J	Pacific Telephone

4923 N AZUSA CANYON RD

Year	Uses	Source
1966	PEREZ GREGORIO M	Pacific Telephone

4926 N AZUSA CANYON RD

Year	Uses	Source
1985	CROWELL & LARSON CONTR	Pacific Bell
1966	CROWELL & LARSON CONTRS	Pacific Telephone
1960	CROWELL & LARSON CONTRS	Pacific Telephone

4929 N AZUSA CANYON RD

Year	Uses	Source
1966	JIMENEZ DANL B	Pacific Telephone
1960	FLEMING JAS D	Pacific Telephone

FINDINGS

Year	Uses	Source
1957	FLEMING JAS	Pacific Telephone

4935 N AZUSA CANYON RD

Year	Uses	Source
1966	HUNTER FRED J	Pacific Telephone
	MONTERO F A	Pacific Telephone
	MONTERO F A	Pacific Telephone
1960	MONTERO F A	Pacific Telephone
	HUNTER FRED J	Pacific Telephone
	MONTERO F A	Pacific Telephone
1957	HUNTER FRED J	Pacific Telephone
	MONTERO F A	Pacific Telephone

4945 N AZUSA CANYON RD

Year	Uses	Source
1966	YATES CHARIOTTE	Pacific Telephone
1960	YATES WARREN L	Pacific Telephone
1957	ORCUTT ROBT D	Pacific Telephone

4954 N AZUSA CANYON RD

Year	Uses	Source
1960	MERJIL JULIAN JR	Pacific Telephone
1957	DANLEY MELBA	Pacific Telephone

4957 N AZUSA CANYON RD

Year	Uses	Source
1966	GARCIA JESUS J	Pacific Telephone
1960	RUIZ VALVINA	Pacific Telephone

5011 N AZUSA CANYON RD

Year	Uses	Source
1966	JARAMILLO BALTAZAR	Pacific Telephone
1950	WILSON N R	Pacific Telephone
	WILSON N R	Pacific Telephone

5015 N AZUSA CANYON RD

Year	Uses	Source
1966	BAIRD WALTER	Pacific Telephone

FINDINGS

5023 N AZUSA CANYON RD

Year	Uses	Source
1957	EVANS D L	Pacific Telephone

5029 N AZUSA CANYON RD

Year	Uses	Source
1960	KAUFMAN MARIE S	Pacific Telephone
1957	KAUFMAN MARIE S	Pacific Telephone
1950	KAUFMAN ARTHUR M	Pacific Telephone
	KAUFMAN ARTHUR M	Pacific Telephone

5041 N AZUSA CANYON RD

Year	Uses	Source
1957	PADILLA FELIX R	Pacific Telephone

5115 N AZUSA CANYON RD

Year	Uses	Source
1966	GALLOWAY G W ENGNRS	Pacific Telephone
1960	GALLOWAY G W ENGINEERS	Pacific Telephone

N LA SENA AVE

4934 N LA SENA AVE

Year	Uses	Source
1960	SLATER DONALD	Pacific Telephone

4939 N LA SENA AVE

Year	Uses	Source
1966	MIRANDA YSIDRO E	Pacific Telephone

4945 N LA SENA AVE

Year	Uses	Source
1957	AGUILAR MONICO	Pacific Telephone

4946 N LA SENA AVE

Year	Uses	Source
1966	STONE LARRY B	Pacific Telephone
1960	PRIMIANO PETE R	Pacific Telephone

4950 N LA SENA AVE

Year	Uses	Source
1966	HERNANDEZ JOS T	Pacific Telephone

FINDINGS

Year	Uses	Source
1960	HERNANDEZ JOS T	Pacific Telephone

4951 N LA SENA AVE

Year	Uses	Source
1957	CALVILLO ALFRED	Pacific Telephone

4956 N LA SENA AVE

Year	Uses	Source
1960	SUTTON COHEN R	Pacific Telephone

4957 N LA SENA AVE

Year	Uses	Source
1966	GAYLORD JAS H	Pacific Telephone
1960	SPEADLING JOYCE	Pacific Telephone

4963 N LA SENA AVE

Year	Uses	Source
1966	HOY RUTH	Pacific Telephone
1957	HOY JERRY F	Pacific Telephone

5002 N LA SENA AVE

Year	Uses	Source
1966	WOODRUFF GEO W	Pacific Telephone
1960	WOODRUFF GEO W	Pacific Telephone
1957	WOODRUFF GEO W	Pacific Telephone

5005 N LA SENA AVE

Year	Uses	Source
1960	HERRERA HENRY	Pacific Telephone

5010 N LA SENA AVE

Year	Uses	Source
1960	BECKHAM JAS E	Pacific Telephone
1957	BECKHAM JAS E	Pacific Telephone

5011 N LA SENA AVE

Year	Uses	Source
1957	VERDUGO RUDOLPH	Pacific Telephone

FINDINGS

5012 N LA SENA AVE

Year	Uses	Source
1966	DEXTER BOBBY	Pacific Telephone
1960	DEXTER BOBBY	Pacific Telephone
1957	DEXTER BOBBY	Pacific Telephone

5019 N LA SENA AVE

Year	Uses	Source
1966	SHIPMAN MAY	Pacific Telephone

5020 N LA SENA AVE

Year	Uses	Source
1966	WISE DONALD G	Pacific Telephone

5028 N LA SENA AVE

Year	Uses	Source
1966	MEEK ODES B	Pacific Telephone
1960	MEEK ODES B	Pacific Telephone

5029 N LA SENA AVE

Year	Uses	Source
1966	POTTER RALPH W	Pacific Telephone
1960	TAKEMOTO SHIRO G	Pacific Telephone
1957	TAKEMOTO SHIRO G	Pacific Telephone

5033 N LA SENA AVE

Year	Uses	Source
1966	LUGO ROBT	Pacific Telephone
	LUGO DIANE	Pacific Telephone
1957	FRANCK HERBERT H	Pacific Telephone

5034 N LA SENA AVE

Year	Uses	Source
1966	ABLES JAS M	Pacific Telephone
1960	PITTMAN WM J	Pacific Telephone
1957	PITTMAN WM J	Pacific Telephone

5039 N LA SENA AVE

Year	Uses	Source
1966	STUMP OREN D	Pacific Telephone
1960	STUMP OREN D	Pacific Telephone

5045 N LA SENA AVE

Year	Uses	Source
1966	JOPLIN PAUL D	Pacific Telephone

5051 N LA SENA AVE

Year	Uses	Source
1966	MCKINNIS CARL C	Pacific Telephone
1960	STONEBURNER GILBERT F	Pacific Telephone
1957	STONEBURNER GILBERT F	Pacific Telephone

5063 N LA SENA AVE

Year	Uses	Source
1966	TEAGLE ALLEN W	Pacific Telephone
1960	LOPEZ MANUEL A	Pacific Telephone
1957	LOPEZ MANUEL A WELDNG	Pacific Telephone

NUBIA ST

15417 NUBIA ST

Year	Uses	Source
2003	GUTIERREZAnthony	Haines & Company

15421 NUBIA ST

Year	Uses	Source
2003	ALOERSON Elaine	Haines & Company

15427 NUBIA ST

Year	Uses	Source
2003	ALVAREZJose	Haines & Company
1980	VASQUEZ TERRI NUBIA ST BALDWIN PARK	Pacific Telephone

15431 NUBIA ST

Year	Uses	Source
2003	SANCHEZ Alejandro	Haines & Company

15434 NUBIA ST

Year	Uses	Source
2003	MEDEROS Flavio	Haines & Company

FINDINGS

15437 NUBIA ST

Year	*Uses*	*Source*
2003	CASABAR Florentna	Haines & Company
1980	JOHNSTON EUGENE NUBIA ST BALDWIN PARK	Pacific Telephone
1975	MCLAUGHLIN MICHAEL	Pacific Telephone

SANDSTONE ST

15403 SANDSTONE ST

Year	*Uses*	*Source*
1995	Gameochipe Jesus	Pacific Bell

15437 SANDSTONE ST

Year	*Uses*	*Source*
1995	Radfeld Helen M	Pacific Bell
	Radford Anna Maria & Raymond Whit	Pacific Bell

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
5010 Azusa Canyon Road	2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
15403 SANDSTONE ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15412 DEVANAH ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15413 DEVANAH ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15413 DEVANNAH ST	2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15417 E NUBIA ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15417 NUBIA ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15418 DEVANAH ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
15421 DEVANAH ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15421 NUBIA ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15422 DEVANAH ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15427 E NUBIA ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15427 NUBIA ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15428 DEVANAH ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15431 E NUBIA ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15431 NUBIA ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15434 NUBIA ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15437 E NUBIA ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15437 NUBIA ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
15437 SANDSTONE ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15499 DEVANAH ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15558 Arrow Highway	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15558 ARROW HWY	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15562 Arrow Highway	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4811 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4811 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4823 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4829 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4829 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
4831 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4831 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4839 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4839 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4841 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4841 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4851 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4851 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4853 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4853 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4857 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
4863 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4863 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4903 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4903 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4907 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4907 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4912 ANNISTON AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4913 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4913 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4913 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4917 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
4917 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4923 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4923 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4925 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4926 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4926 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4926 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4929 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4929 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4934 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4934 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
4934 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4935 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4935 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4935 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4936 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4938 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4938 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4938 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4938 Azusa Canyon Road	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4939 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4939 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
4939 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4940 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4940 LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4941 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4945 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4945 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4945 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4945 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4946 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4946 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4946 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
4946 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4946 Azusa Canyon Road	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4946 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4946 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4950 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4950 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4950 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4951 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4951 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4951 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4954 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
4954 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4954 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4954 Azusa Canyon Road	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4954 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4956 ANNISTON AVE	2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4956 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4956 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4957 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4957 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4957 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4957 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
4957 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4962 ANNISTON AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4962 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4963 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4963 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4966 ANNISTON AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4967 ANNISTON AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4972 ANNISTON AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4973 ANNISTON AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4983 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5002 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
5002 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5005 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5005 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5010 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5010 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5011 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5011 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5011 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5011 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5012 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5012 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
5015 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5019 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5019 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5020 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5020 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5023 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5023 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5025 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5028 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5028 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5029 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
5029 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5029 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5029 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5033 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5033 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5034 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5034 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5035 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5039 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5039 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5041 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
5041 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5045 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5045 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5051 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5051 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5057 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5063 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5063 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5102 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5102 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5102 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
5102 Azusa Canyon Road	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5104 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5104 Azusa Canyon Road	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5106 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5106 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5106 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5106 Azusa Canyon Road	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5108 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5108 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5108 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5108 Azusa Canyon Road	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
5110 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5110 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5112 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5112 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5114 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5115 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5115 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5116 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5116 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5119 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5119 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

APPENDIX H

PRIOR REPORTS

11-11-85
da

PHASE II FINAL REPORT

IRWINDALE PLANT YARD

NOVEMBER 8, 1985

McLaren Environmental Engineering

McLaren Environmental Engineering

November 8, 1985

Ms. Marti Schmitt
General Telephone Company
2849 Ficus Street
Pomona, CA 91766

Dear Ms. Schmitt:

Please find enclosed the final report for Irwindale Plant Yard.

Recommendation: 10,000 gallon diesel tank/precision test.
10,000 gallon unleaded gasoline tank/remain in service annual precision test.

Sincerely,

Gail Brice
Project Manager

tls

Enclosure

5017 Kilgore Road Rancho Cordova, California 95670 (916) 638 3696

IRWINDALE PLANT YARD

As part of GTC's Phase II Underground Tank Program, McLaren Engineering conducted one soil boring at the Irwindale Plant Yard facility on October 2, 1985. The soil boring was placed to investigate soil conditions adjacent to a 10,000 gallon diesel tank. Two other tanks at the yard were not investigated for soil contamination because the soil contained a large amount of cobbles which made drilling an unsuitable investigative technique. As a result, the drilling operation was moved to another site and a proposal was made to GTE to have the tanks precision tested.

The soil boring was placed at the north side of the 10,000 gallon diesel tank and drilled to a depth of 15.0 feet (Figure 1). Samples were collected at 3.5 to 5.0 feet, 8.5 to 10.0 feet and 13.5 to 15.0 feet. No odor or discoloration of the soil was evident in the samples collected. Petroleum hydrocarbon concentrations in the soil were 19 ppm at 3.5 to 5.0 feet, <10 ppm at 8.5 to 10.0 feet, and 30 ppm at 13.5 to 15.0 feet (Table 1).

On October 24, 1985, a precision test was performed on the 10,000 gallon unleaded gasoline tank (Figure 2). The tank was found to be tight. No approval was given by GTE to precision test the other 2 tanks.

The field geologist on the project was John Reay; the tank testers, Bud Amorfini and Tim Hopper; the supervising geologist, Dennis Nakamoto: and the supervising engineer, Larry Smith.

A copy of the soil boring log documented at the site is contained in Appendix 1. The soil sampling protocol is contained in Appendix 2. McLaren's laboratory methodology adapted from EPA Method 418.1 for petroleum hydrocarbons is contained in Appendix 3. The certified tank precision test results are contained in Appendix 4.

Conclusion

The results of the soil sampling program at GTC's Irwindale Plant Yard indicate that there are low concentrations of petroleum hydrocarbons in the soil adjacent to the 10,000 gallon diesel tank. No additional borings were drilled in the yard because of the difficulty associated with drilling through cobbles. McLaren Engineering recommends that this tank be precision tested as soon as scheduling permits.

The precision test performed on the 10,000 gallon unleaded gasoline tank shows that the tank is tight. Because the tanks at the Irwindale Plant Yard facility are 18 years old, and McLaren Engineering recommends that they be precision tested annually until they can be conveniently removed and replaced.

FIGURE 1

IRWINDALE PLANT YARD

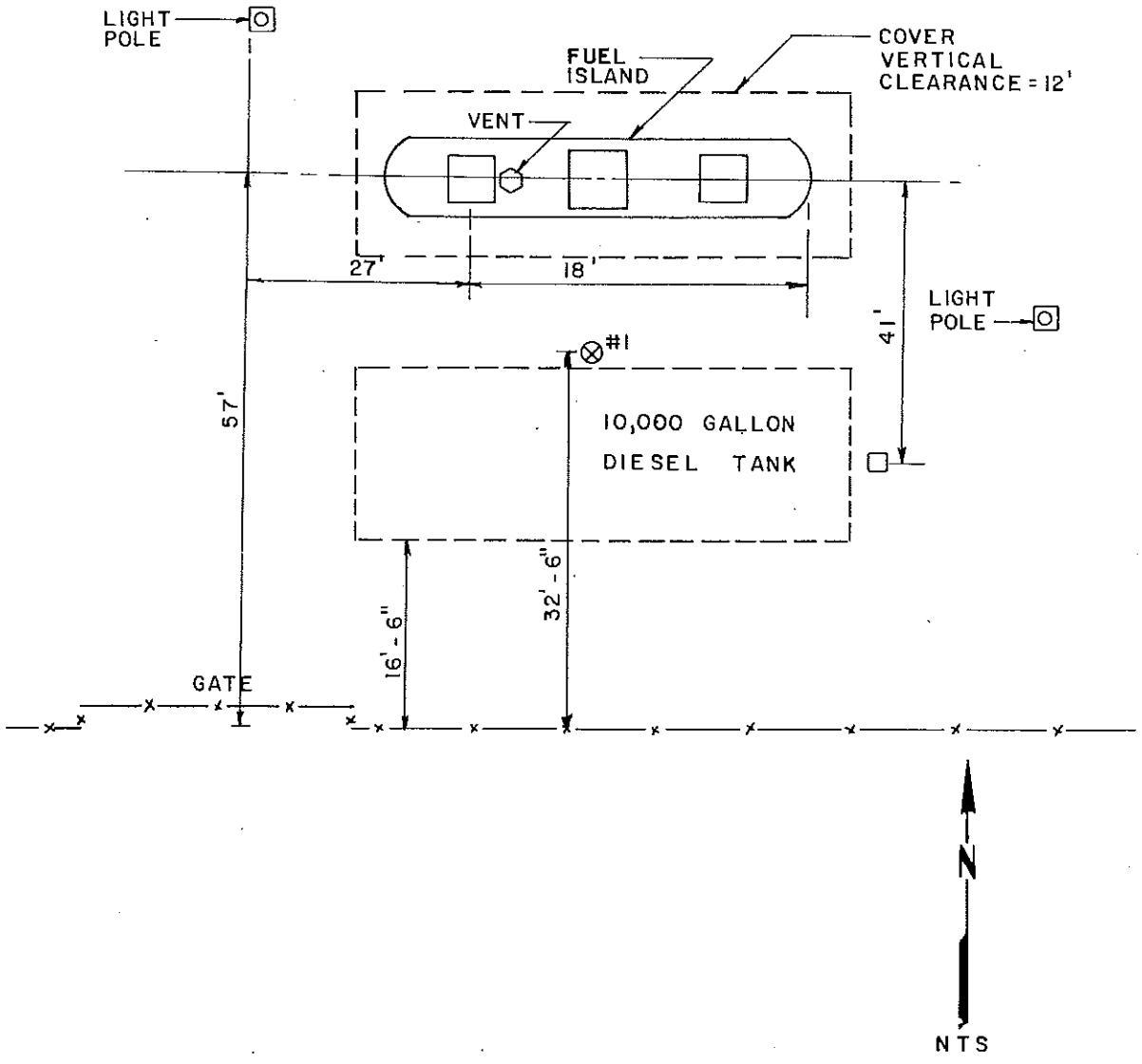


FIGURE 2

IRWINDALE SITE

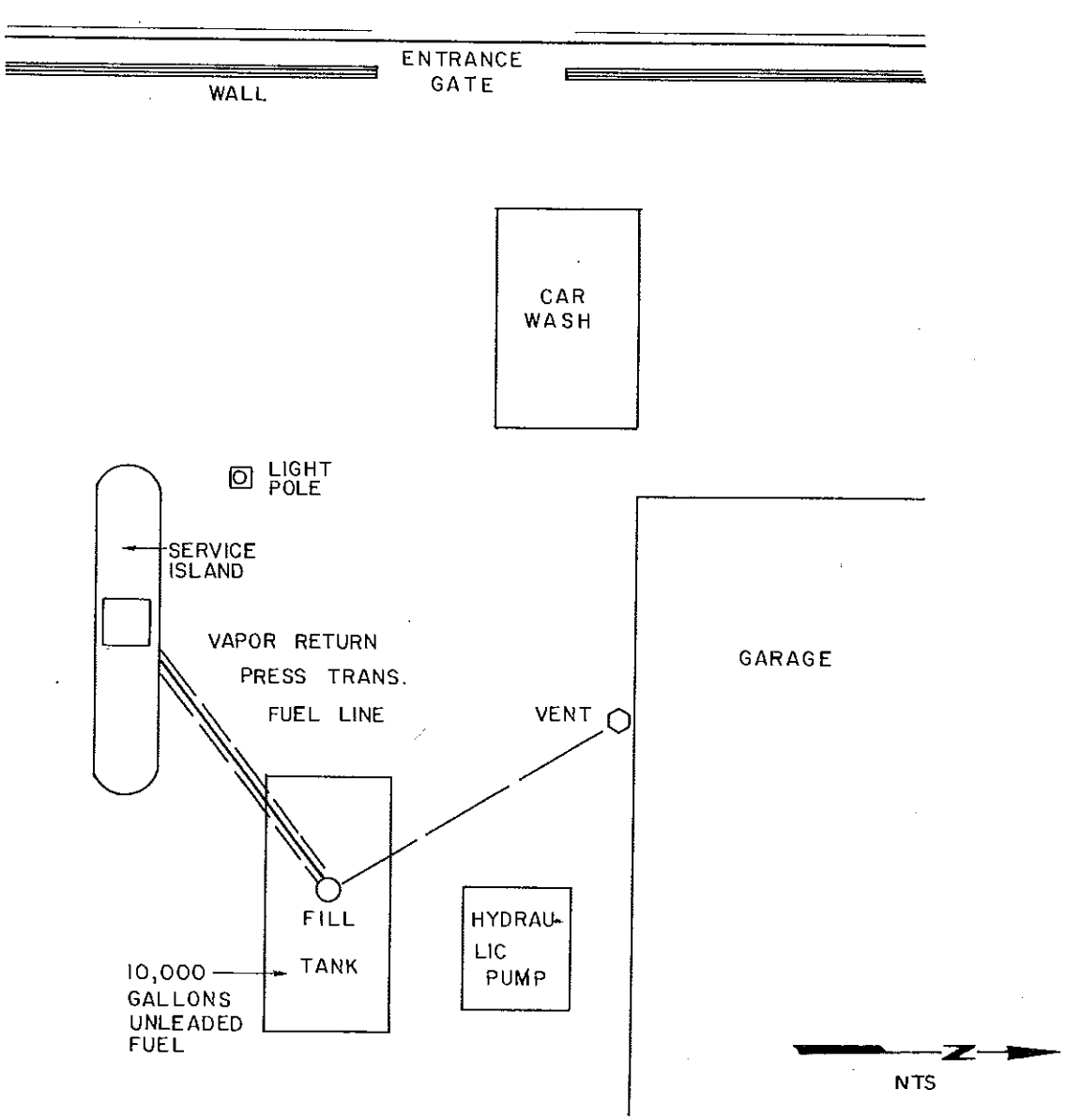


TABLE 1

IRWINDALE PLANT YARD
SOIL HYDROCARBON DATA

Auger Hole	Depth (feet)	HNu (ppm)	I.R. mg. kg.	Comments
01	3.5 - 5.0	0.0	19	
	8.5 - 10.0	0.0	<10	
	13.5 - 15.0	0.0	30	

SOIL LOG DATA ENTRY FORM — RE HOLE No. IRPY ϕ1

PROJECT GTE — LOC ...indale Plant Yard

ELEVATION ... DATE DRILLED 10-2-85/10-..-85 START 8.00 FINISH 13.00

METHOD 8" Hollow Stem Auger DRILLERS and EQUIPMENT Continental B61

TOTAL DEPTH 15.0 feet SURFACE CHARACTERISTICS Asphalt

HNU BACKGROUND 0.4 ppm INSPECTOR John Reay

WASTE DESCRIPTION 10,000 gallon diesel fuel tank

DEPTH FOR SPT (FT.)	SPT RESULTS BLOWS 6"-6"-6"	SPT RESULTS BPF 'N'	SAMPLE DEPTH INTERVAL (FT.)	SAMPLE NUMBER	DEPTH FOR SOIL	SOIL DESCRIPTION MOD	TEXTURE	COLOR	H_2O	UNIFIED CLASSIFICATION	DEPTH-HNU-CUTTINGS	HNU READINGS ABOVE BACK-GROUND CUTTINGS	DEPTH-HNU HEADSPACE	HNU READINGS ABOVE BACK
						—	Asphalt		Dry	RB				
						—	Gravel and Cobbles	5Y 4/3	Slightly Moist	SP	1'	0.0 ppm		
											3'	0.0 ppm		
5			4.5	ϕ1							5'	0.0 ppm	4.5'	0.1
						—	Sand	2.5Y 5/4	Slightly Moist	SM	8'	0.0 ppm		
	3, 2, 3	5	9.5	ϕ2									9.0'	0.1
10											10'	0.0 ppm		
							Gravel and Cobbles	5Y 6/2	Dry	GP	13'	0.0 ppm		
	30/6,-,-	—	13.5	ϕ3									13.5'	0
15							Refusal at 15.0 ft.				15'	0.0 ppm		
20														
25														

McLaren Environmental Engineering

McLaren Environmental Engineering

October 30, 1985

SUBJECT: UNDERGROUND TANK TESTS AT IRWINDALE AND MONROVIA

We have completed the underground tank tests on your 10,000 gallon unleaded tank at N. Azusa Canyon Road in Irwindale and the 1,000 gallon diesel tank at W. Lime Street in Monrovia in accordance with the regulations set forth by Los Angeles County. Attached are the test data charts for your review.

The test in Monrovia has shown the 1,000 gallon diesel tank to be leaking at the rate of .09 gal/hr. After compensating for tank end deflection and temperature gain, the data consistently indicate a net loss over each 15-minute interval, conclusively showing a leak greater than the .05 gal/hr criteria.

The test on the 10,000 gallon unleaded tank in Irwindale shows it to be tight. Test data indicate proper product circulation with consistent temperature increases and normal compensation for tank end deflection. Results indicate a net gain of .039 gal/hr which is sufficient to certify the tank as tight.

Bud Amorfini

3017 Kilgore Road Rancho Cordova, California 95670 (916) 638-3696

GTE California Incorporated

Post Office Box 725
Chino, CA 91708

10483
PAT

In Reply Refer To

RC1603-301
Pomona, CA

December 21, 1990

RECEIV
JAN 2 1991
DEPARTMENT OF Pub
WASTE MANAGEMENT DIVISIO

Mr. Thierno A. Diallo
County of Los Angeles
Department of Public Works
900 South Fremont Avenue
Alhambra, CA 91803-1331

Dear Mr. Thierno:

Subject: CLOSURE PERMIT NO. 4994B
FILE: 1-3882-3S
5010 AZUSA CANYON ROAD, IRWINDALE

In a letter to GTE California (GTEC) dated March 29, 1990, you indicated that an insufficient number of soil samples were taken during the removal of two underground storage tanks at the above mentioned GTEC Irwindale Plant Yard in November 1988, and February 1989. Specifically, you requested two additional soil samples be obtained from beneath the diesel island and one sample from below the gasoline island.

Enclosed is a report prepared by Jetco Environmental & Assoc., Inc. (Jetco) for GTEC dated November 14, 1990, presenting the results of the requested sampling under the diesel island and minor remediation that became necessary. A two foot soil sample (SP-1), taken beneath the diesel island, showed concentrations of 4200 parts per million (PPM) total petroleum hydrocarbons (TPH).

Remediation of the contaminated soils was achieved by the excavating to a depth of 5 feet. Approximately one 55 gallon drum of soil was removed and transported via manifest to Omega Recovery in Whittier. Verification samples were taken from the walls and bottom of the excavation to ensure all contaminated soils were removed.

Jackie I.F.
Bill-
al

RECEIVED
NOV 15 1990
ENVIRONMENTAL
COMPLIANCE
RC-1603

SITE INVESTIGATION

GTE IRWINDALE FACILITY
5010 AZUSA CANYON RD.
IRWINDALE, CA

100183

NOVEMBER 14, 1990

1.0 INTRODUCTION AND SUMMARY

1.1 INTRODUCTION

The site investigation was conducted to determine the extent of hydrocarbon contamination present in the soil detected by previous sampling and laboratory analysis at the GTE facility located at 5010 Azusa Canyon Road, Irwindale, CA. The site location is shown in Attachment 1. The investigation was performed for GTE California at the request of Mr. Al Hollis, by JETCO Environmental & Assoc., Inc.

These activities are associated with daily operations of the GTE facility. The investigation specifically focused on the soil conditions of the area surrounding a previously removed fuel island. The the fuel island and the immediate surrounding area are depicted in Attachment 2.

The findings of a preliminary site sampling by JETCO indicated Total Non-volatile Petroleum Hydrocarbons (Diesel) of 4200 mg/kg at the location of sample SP-1. The location of sample SP-1 in relation to the fuel island is shown in Attachment 2. The concentration of contamination for sample SP-1 was significantly greater than the regulatory action level. Therefore further investigation was warranted to determine the limits of contamination and what course of remedial action should be taken.

The scope of work included in the site investigation, and subsequent remediation of the contaminated material follows:

- Exploratory excavations of the area surrounding the fuel island
- Soil sampling and laboratory analysis of samples.
- Geological evaluation of subsurface conditions.
- Removal and disposal of all contaminated material.
- Backfill and compaction of excavations.

A summary of the f...

The findings of this investigation indicate Total Petroleum Hydrocarbon levels up to 4200 mg/kg in a limited area directly below the pump island. The contaminated soil centers around sample SP - 1. Perimeter samplings of the exploratory excavations show the contamination does not spread beyond a small section of the fuel island. Once identified the contaminate was excavated in its entirety, placed in a D.O.T. approved drum, and transported to a licensed disposal facility. Further investigation of this site does not appear warranted at this time.

2.0 SUMMARY - AREA GEOLOGY

The Irwindale area is located south of the San Gabriel Mountains in the Transverse Ranges Geomorphic Province. Locally, alluvial deposits from the San Gabriel Valley. The dominate alluvial feature of the valley is the San Gabriel River Fan. A generalized geologic map of the area is provided in Attachment 3.

The study area of the site consists of artificial fill overlying natural alluvial deposits of the San Gabriel River Fan. The trench logs depict the subsurface character of the area.

Artificial Fill (AF)

The fill consists of sand with trace rocks. It is found to be medium dark brown and gray, moist and medium dense. The soil is fine to medium grained and slightly mottled with gray brown sand and silty sand. Rocks comprise up to 5 percent of the unit, measured up to 8 inches in diameter and are granitic in composition. The USCS designation for this soil composition is SP-SM.

Alluvium (Qal)

The Alluvium is designated as the San Gabriel River Fan deposits. These deposits consist of partially stratified sand, cobbles, and boulders. The materials medium brown gray, moist, medium dense and unconsolidated. The sand is fine to medium grained and the cobbles and boulders range up to 24 inches in diameter. Minor caving within the alluvium was observed from below the fill deposit to the depth of the trench. The USCS designation for this soil composition is GP-GW.

Groundwater

No groundwater was encountered in either the exploratory trenches. However, local wells drilled in the vicinity indicate that ground water is roughly 230 feet below ground surface. Data provided in attachment 4, by the County of Los Angeles substanciates the depth of ground water in this area.

3.0 FIELD INVESTIGATION

On August 23, 1990 JETCO began excavation of two exploratory trenches on either side of the fuel island. The eventual depths of the trenches were 12 feet. The logs of both exploratory trenches are presented in Appendix A. Soil samples were taken from the excavations, in locations necessary to assure proper areal coverage. The locations of those samples are shown in Attachments 2 and 5. The samplings performed during excavation and instrument analysis utilizing a Bacharach TLV model no. 0023-7256 calibrated to Hexane, demonstrated that the contamination zone was restricted to the area directly below the fuel island. Having made an accurate assessment of the extent of contamination, the contamination was removed. The excavated contaminate was then packaged in a DOT drum and removed from the site. Asbury Environmental, a licensed California Hazardous Waste Transporter ID No. 108687, transported the material to Omega Recovery, an Authorized TSD facility, US EPA ID No. CAD042245001, located at 12504 E. Whittier Blvd, Whittier, CA. Attachment 6 shows a copy of the Hazardous Waste Manifest for that removal. Following removal, the exploratory excavations were backfilled and compacted.

4.0 LABORATORY ANALYSIS

4.1 SAMPLE SELECTION AND LABORATORY ANALYSIS METHODS

All sampling was conducted by Harry Audell, Registered Geologist No. 3958, for JETCO Environmental & Assoc. Inc. Samples were selected for analysis based on location, TLV instrument readings, odors, and visual observation. All sample locations are displayed in Attachment 4. Chain of Custody records and laboratory analysis results are presented in Appendix B.

In the north wall exploratory trench a total of four samples were pulled, at two separate depths. Samples SP-T1-1 and SP-T1-4 were taken, one from each side of the excavation at a 5 foot depth. Samples

From the south wall exploratory trench a total of four samples were also pulled. SP-T2-2 and SP-T2-3 were taken, one from each side of the trench, at a 5 foot depth. SP-T2-1 and SP-T2-4 were taken, one from each side of the trench, at a 12 foot depth. Each of the four samples was analyzed for total petroleum hydrocarbons by EPA method 418.1.

In the area of directly below the fuel island between the two exploratory excavations, two samples were taken. Sample SP-1 was taken at a depth of 2 feet. Sample SP T2-10 was removed at a 5 foot depth, from the floor of the actual contamination zone. Both samples were analyzed by EPA method 418.1 for total petroleum hydrocarbons.

4.2 LABORATORY ANALYSIS RESULTS

The table below shows the results of each sample taken.

SAMPLE	RESULT
SP-1	4200 mg/kg (ppm) TPH
SP T1-1	24 mg/kg (ppm) TPH
SP-T1-2	Non-Detect
SP T1-3	Non Detect
SP-T1-4	32 mg/kg (ppm) TPH
SP T2-1	11 mg/kg (ppm) TPH
SP-T2-2	17 mg/kg (ppm) TPH
SP T2-3	22 mg/kg (ppm) TPH
SP-T2-4	26 mg/kg (ppm) TPH
SP-T2-10	30 mg/kg (ppm) TPH

5.0 FINDINGS

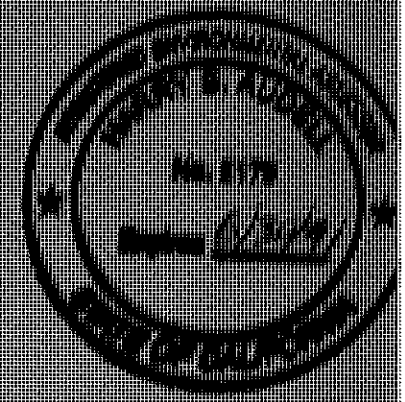
Based on the results of the field investigation, the significant occurrence of soil contamination is represented by the 4200 ppm total petroleum hydrocarbons concentration in the 2 foot sample, SP-1, located directly below the fuel island. This level is above the 100 ppm regulatory action level for TPH. The efforts of the investigation, however, show that the contaminate plume to be restricted to an area not deeper than 5 feet and contained horizontally between the walls of each of the exploratory trenches.

Remediation of the area was achieved by the excavation of all contaminated soil in the described area and the removal of that material from the site to a licensed Disposal Facility. The remaining soil demonstrates TPH levels well

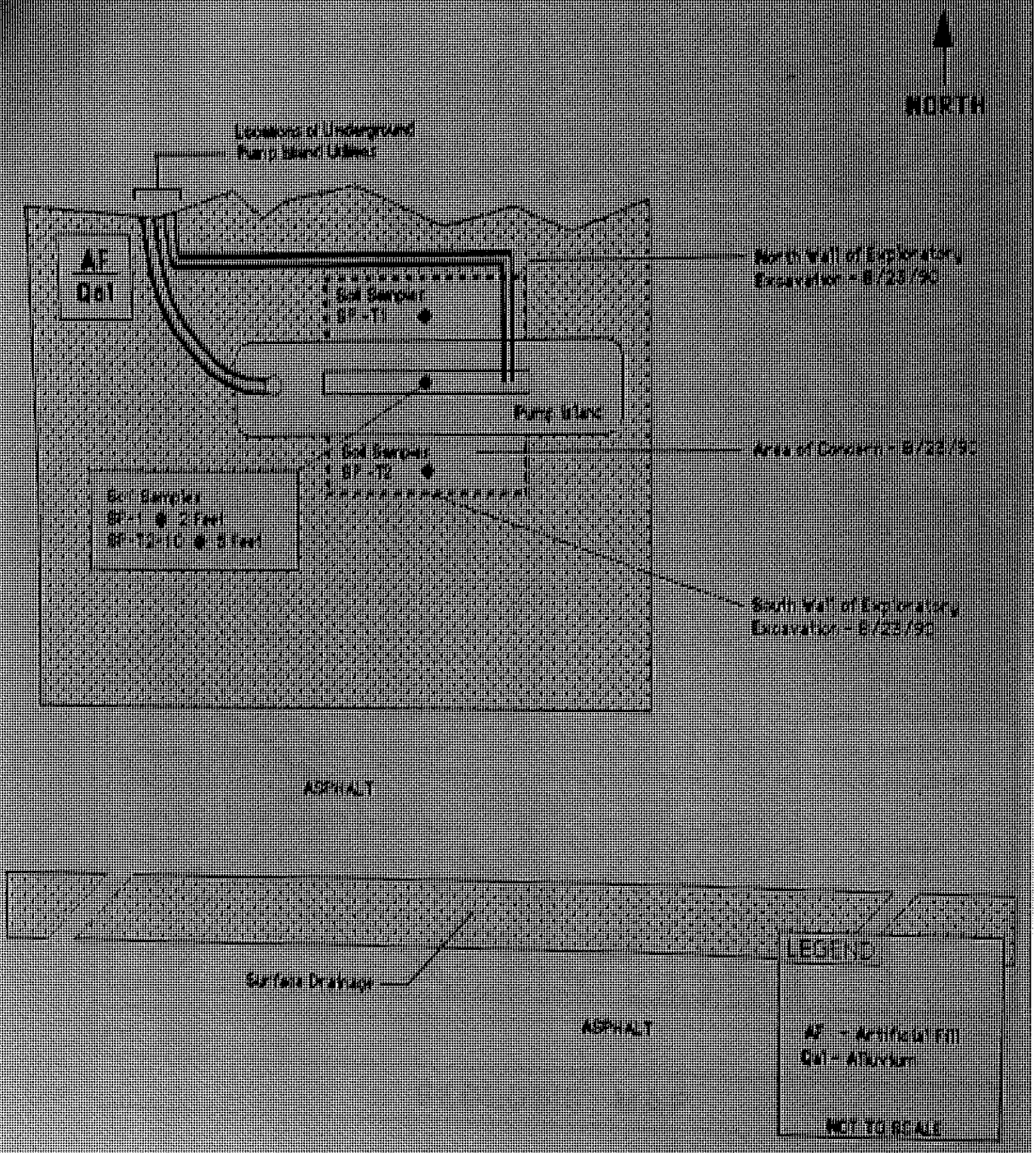
Remediation of the area was achieved by the excavation of all contaminated soil in the described area and the removal of that material from the site to a licensed Disposal Facility. The remaining soil demonstrates TPH levels well below 100 ppm and, therefor, no further investigation appears warranted at this time.

Chad Beers
Remediation Projects Manager
Jetco Environmental & Assoc. Inc.

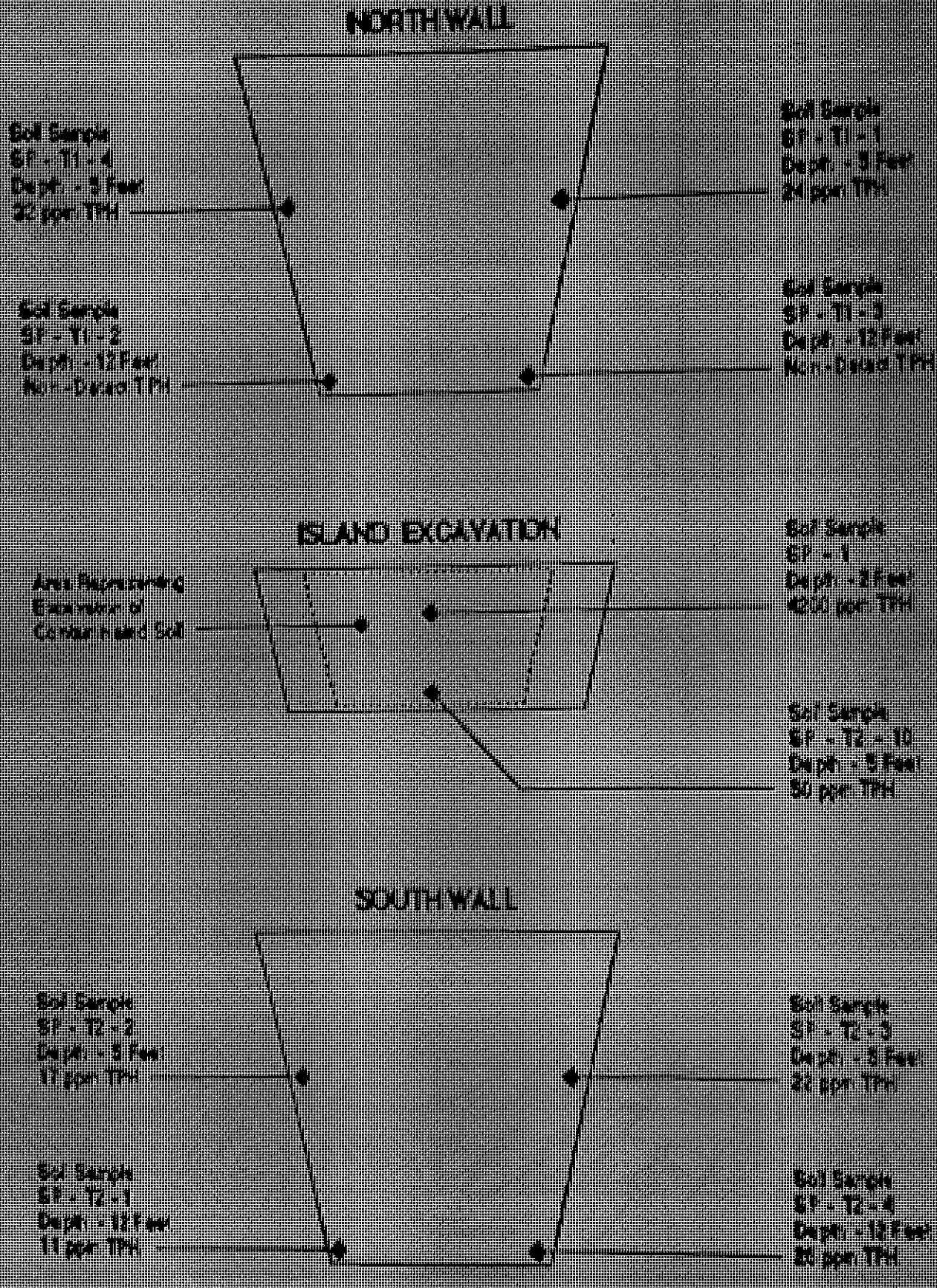
Harry S. Ardell
RG 3958
KDA 2179
Consulting Geologist



ATTACHMENT 2



ATTACHMENT 5



SOIL GAS STUDY REPORT
GTE IRWINDALE SITE
IRWINDALE, CALIFORNIA
REGIONAL BOARD FILE NO. AB108.0212

PREPARED FOR:

GTE OF CALIFORNIA
ENVIRONMENTAL COMPLIANCE
2844 FICUS STREET
POMONA, CALIFORNIA 91766

PREPARED BY:

CAMP DRESSER & MCKEE INC.
18881 VON KARMAN AVENUE
SUITE 650
IRVINE, CALIFORNIA 92715

CDM PROJECT NUMBER: 2425-110-SV-REPT

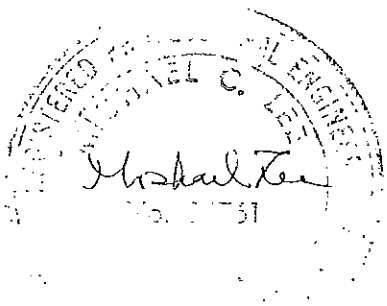
AUGUST 1991

The information contained in this report has received appropriate technical review and approval. The conclusions and recommendations presented represent professional judgments and are based upon the findings from the investigation identified in the report and the interpretation of such data based on our experience and background. This acknowledgement is made in lieu of all warranties, either express or implied.

Reviewed and Approved by

Michael C. Lee, Ph.D., P.E.
Civil Engineer, California, 1983 No. 36761
Environmental Assessor, California, 1989 No. 01422

D. Michael Kammerzelt
Environmental Scientist



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Appendix A Letter from the California Regional Water Quality Control Board (CRWQCB) - Los Angeles Region to GTE, dated March 13, 1991

Appendix B Work Plan for an Initial Subsurface Investigation at the GTE Irwindale Facility, CRWQCB File No. AB108.0212

Appendix C Letter from the CRWQCB to GTE dated May 29, 1991

Appendix D Hydro Geo Chem Report, QA/QC Procedures and Analytical Results of the Soil Gas Study

Appendix E Chain of Custody and Laboratory Reports

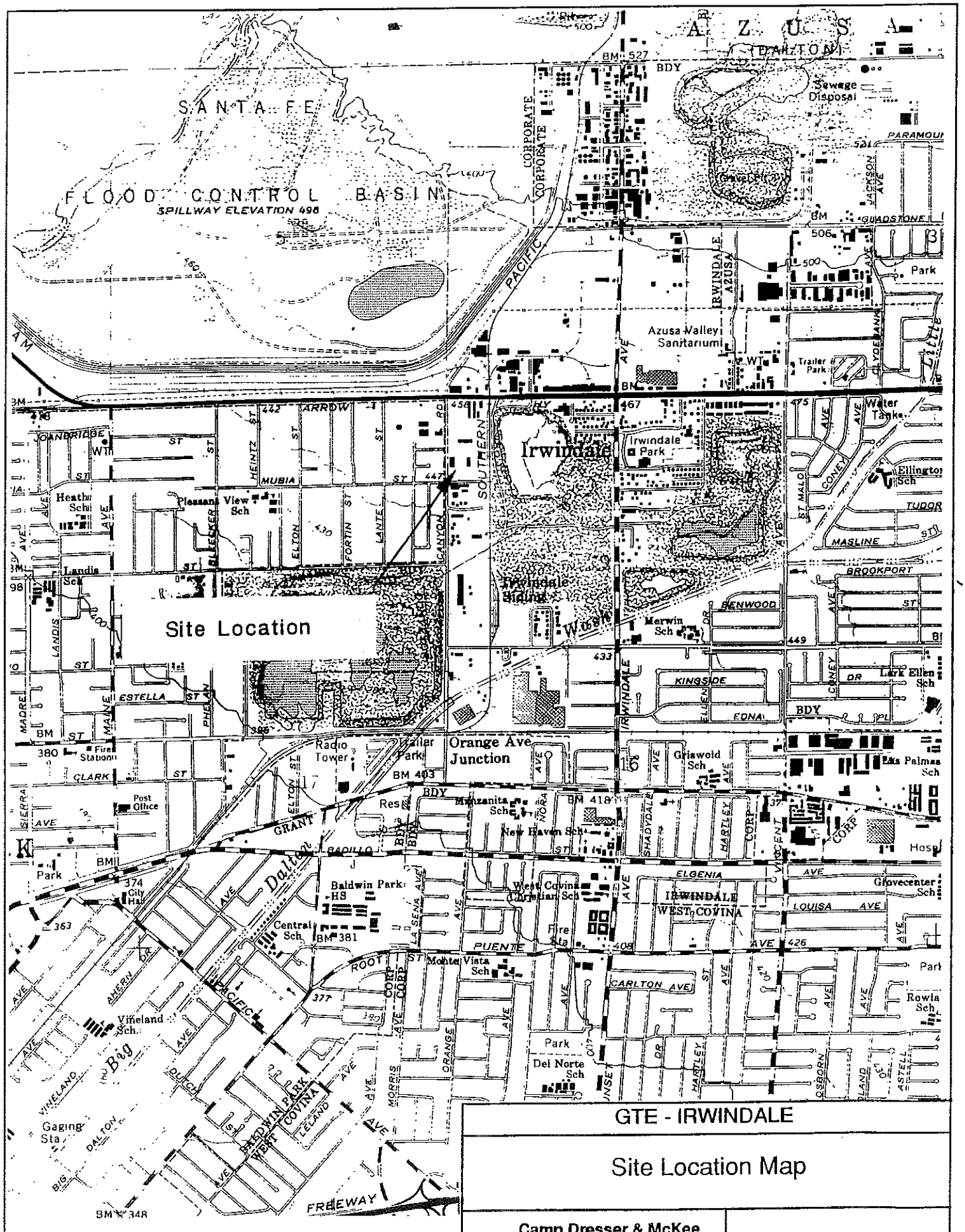
1.0 INTRODUCTION

This report presents the findings of a soil gas investigation with confirmatory soil sampling conducted at the GTE Irwindale Facility located at 5010 North Azusa Canyon Road in Irwindale, California. The site location is shown on Figure 1. This investigation was conducted in response to requests itemized in a letter from the California Regional Water Quality Control Board (CRWQCB) - Los Angeles Region, to GTE dated March 13, 1991. This letter, included in Appendix A, refers to a March 7, 1991 inspection of portions of the GTE Irwindale facility by Board staff. During this inspection, two areas were identified as requiring assessment using soil gas techniques with confirmatory soil sampling. One area includes the current truck wash and steam clean bay, with the active subsurface structures including drain sumps and clarifier; inactive, abandoned, subsurface structures including two cesspools and two septic tanks; and storage areas including the former and current hazardous waste storage and drum storage. This area is shown on Figure 2. The other area identified for assessment is the adjacent bays within the maintenance building that formerly housed the truck wash and steam clean areas, including an abandoned clarifier. Figure 3 shows the approximate location of the former truck wash/steam clean bay which was located in the east end of the vehicle maintenance building. This figure is based on available plans provided by GTE.

A workplan was submitted to the CRWQCB for review, and was approved in a letter from the Board to GTE dated May 29, 1991. The workplan is included in Appendix B and the letter is included in Appendix C.

This soil gas investigation was conducted on June 24-27, 1991, sampling a total of 28 locations, with 63 soil gas samples analyzed, and 4 soil samples collected and analyzed. This study was conducted in accordance with the workplan included in Appendix B.

Soil gas samples were collected and analyzed on a real-time basis by Hydro Geo Chem, Inc. (HGC) under subcontract to Camp Dresser & McKee Inc. (CDM). Soil samples were

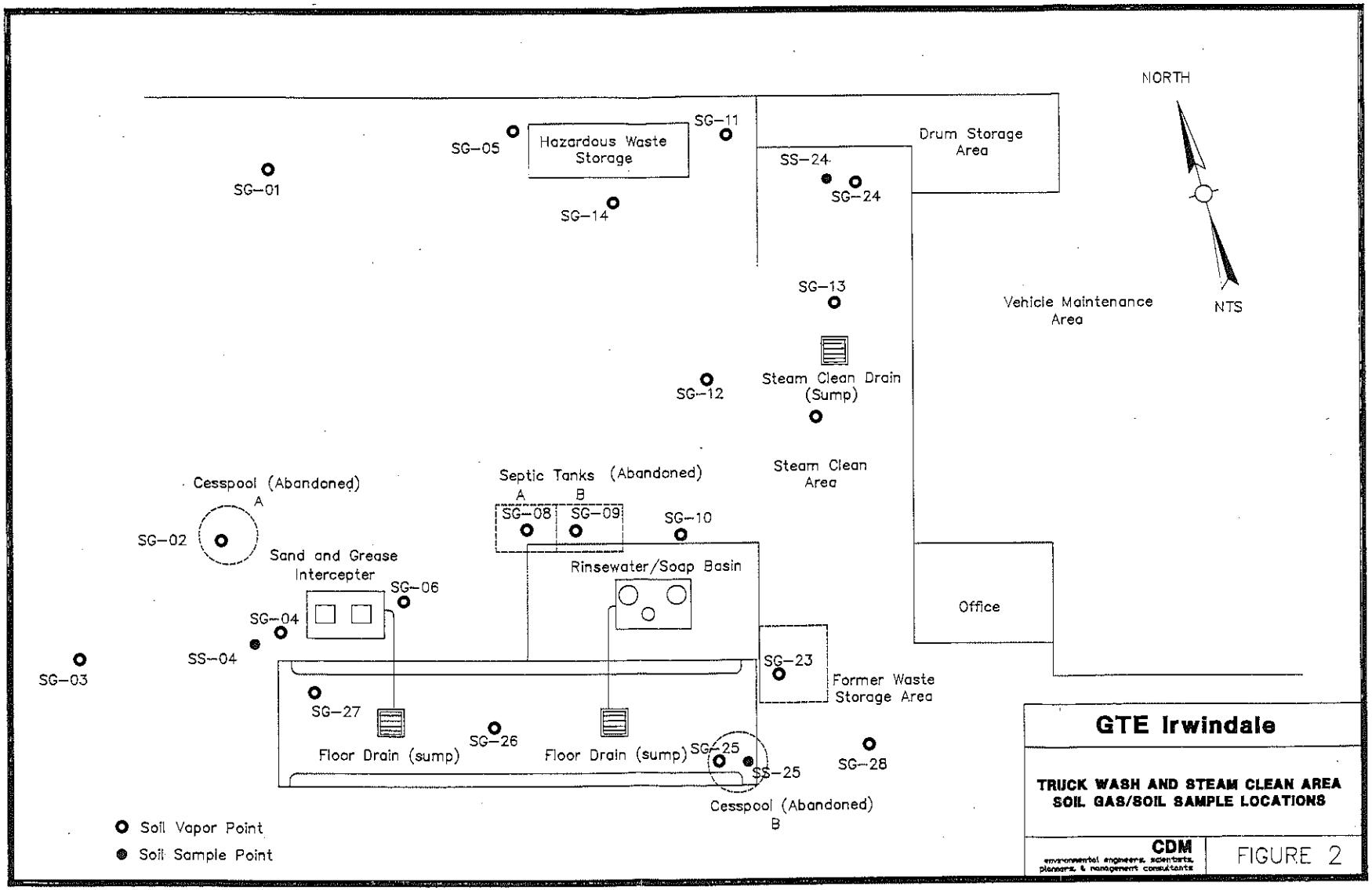


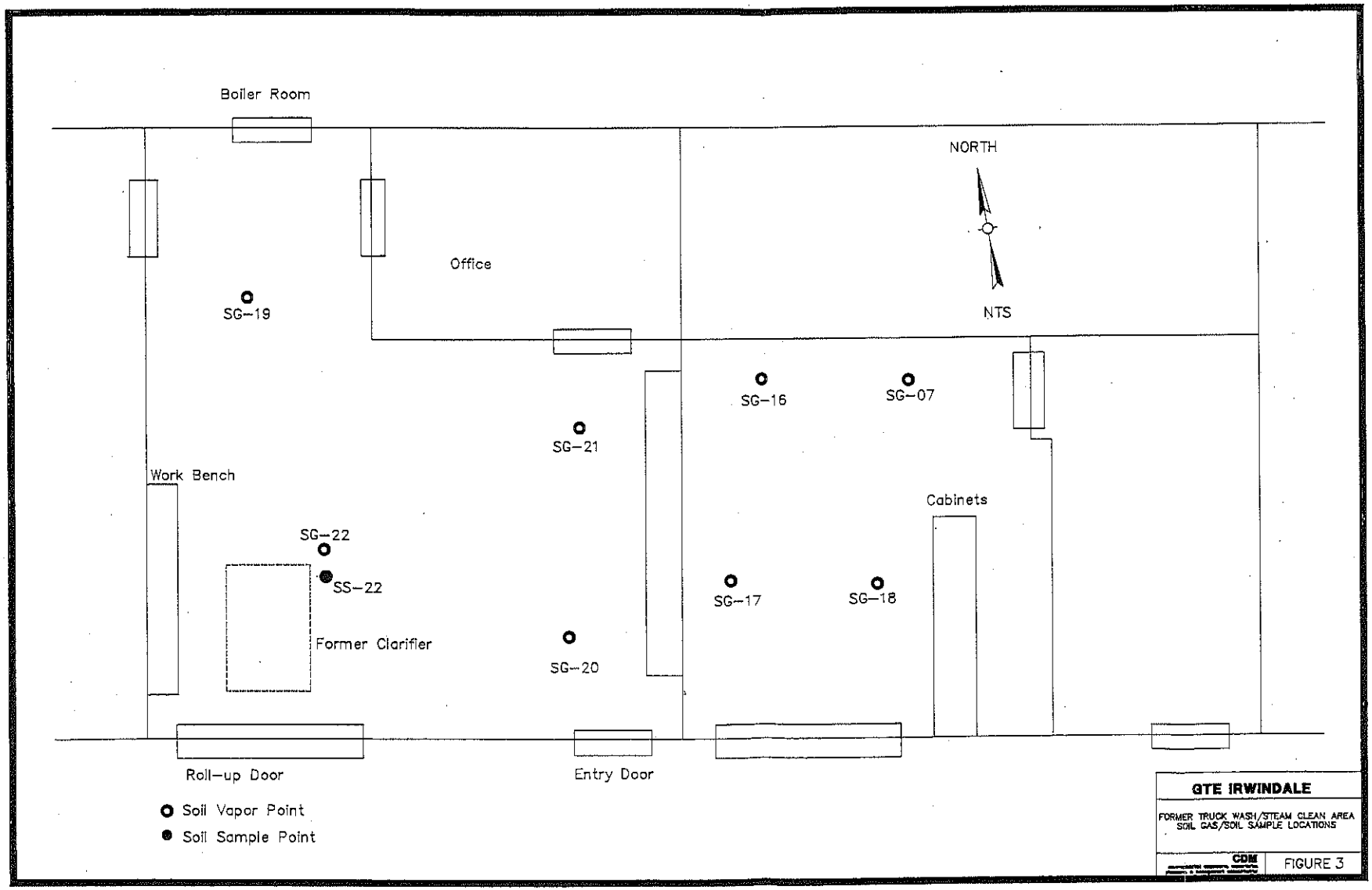
GTE - IRWINDALE

Site Location Map

Camp Dresser & McKee
CDM

FIGURE 1


NORTH
NTS
SG-01
SG-05
Hazardous Waste Storage
SG-11
SG-14
Drum Storage Area
SS-24
SG-24
SG-13
Vehicle Maintenance Area
Steam Clean Drain (Sump)
SG-12
Steam Clean Area
Cesspool (Abandoned) A
SG-02
Septic Tanks (Abandoned) A B
SG-08
SG-09
SG-10
Rinsewater/Soap Basin
Sand and Grease Intercepter
SG-06
SG-04
SS-04
SG-03
Office
SG-23
Former Waste Storage Area
SG-27
Floor Drain (sump)
SG-26
Floor Drain (sump)
SG-25
SS-25
SG-28
Cesspool (Abandoned) B
Soil Vapor Point
Soil Sample Point
GTE Irwindale
TRUCK WASH AND STEAM CLEAN AREA
SOIL GAS/SOIL SAMPLE LOCATIONS
CDM
environmental engineers, scientists, planners, & management consultants
FIGURE 2


Boiler Room
Office
NORTH
NTS
SG-19
SG-16
SG-07
SG-21
Work Bench
Cabinets
SG-22
SS-22
SG-17
SG-18
Former Clarifier
SG-20
Roll-up Door
Entry Door
Soil Vapor Point
Soil Sample Point
GTE IRWINDALE
FORMER TRUCK WASH/STEAM CLEAN AREA
SOIL GAS/SOIL SAMPLE LOCATIONS
CDM
FIGURE 3

analyzed within three days of collection by Terra Tech Labs, a California certified laboratory.

2.0 SOIL GAS AND SOIL SAMPLING LOCATIONS

The locations for soil gas and soil sampling were chosen to investigate areas of concern noted during the March 7, 1991 inspection by CRWQCB staff. Table 1 lists the areas investigated and the number of soil gas probes placed, number of soil gas samples, and soil samples obtained.

3.0 FIELD INVESTIGATION

3.1 Surface Obstructions

The site is underlain in the shallow subsurface by coarse gravel and cobbles to 8-inches in diameter. Due to this condition, soil gas probe depths of exactly 8 feet below ground surface (BGS) were not attainable at all locations. Probes were deeper than 6 feet instead, all soil gas probe depths of 4 feet BGS were attained.

3.2 Soil Gas Study

Soil gas samples were collected using the system developed by Hydro Geo Chem, Inc. Sampling probes are made of five-foot sections of 1-3/8 inch hardened drill rod. These rods were pushed into the soil with a hydraulic hammer mounted on a flat bed truck. The points are made of hardened steel and are left behind when the rod is hydraulically pulled back approximately 12 inches to allow the soil gases to be withdrawn. The soil gases were drawn through the drill rod using an oil-less, diaphragm vacuum pump. This vacuum pump drew the sample through a 3-layer carbon absorption (Supelco) tube. The tubes are filled with a three-layer packing of various types of absorptive carbon. The soil gas passes through

TABLE 1
GTE IRWINDALE
AREAS OF CONCERN AND SAMPLING FREQUENCY

Areas of Concern	Number of Soil Vapor Probes	Number of Soil Vapor Samples	Number of Soil Samples
Former Truck Wash and Steam Clean bays	8	16	1
Current Truck Wash	4	10	
Current Steam Clean Bay	3	7	
Cesspools (Two)	2	4	1
Septic Tanks (Two)	2	5	
Current Hazardous Waste Storage Area	4	10	
Former Hazardous Waste Storage Area	1	2	
Sand and Grease Intercepter	3	7	1
Drum Storage	1	2	1
Total	28	63	4

the tubes and is collected by these carbon layers. A minimum of three probe volumes of soil gas were purged through each tube. Gas samples were collected at about four feet and six to eight feet below ground surface to minimize atmospheric effects. Details of soil gas sample collection and analytical procedures including quality assurance and quality control are found in Appendix D.

Twenty soil gas probe locations were placed at the current truck wash and steam clean areas (see Figure 2). Eight soil gas probe locations were placed at the location of the former stream clean and truck wash areas (see Figure 3). The soil gas samples are identified numerically preceded by the letter prefix "SG." For example, SG-01 identifies the first soil gas location to be sampled. The sample node radii were located less than 30 feet apart.

3.3 Soil Gas Analysis

Soil gas samples were analyzed on a "real time" basis using Hydro Geo Chem's on-site mobile laboratory equipped with Varian 3300 and 3400 gas chromatographs. The Varian chromatographs were equipped with a photo ionization detector (PID), a flame ionization detector (FID) and a Hall electrolytic conductivity (HALL) detectors. These detectors were capable of detection limits of 0.01 μg/L.

Soil gas samples were analyzed for 1,1,1-trichloroethane and its anaerobic dehalogenated products, 1,1-dichloroethane and chloroethane. The samples were also analyzed for the presence of tetrachloroethene, trichloroethene, and total volatile organic compounds. Chromatograms and field data sheets are included in Appendix D.

3.4 Soil Samples

Confirmatory soil samples were obtained at four locations, one of which was located at the former truck wash and steam clean bay and three were located at the current truck wash and steam clean bays. The locations for the soil samples were based on both analytical results of

the soil gas survey and sample distribution. CRWQCB staff was part of the data review conducted to determine the location of confirmatory soil sampling. The soil samples were identified with the letter prefix "SS" and a number which corresponds to the adjacent soil gas sample location.

Soil samples were collected by driving a 1-inch ring with 3-inch stainless steel sleeves in the same method as the soil gas probes. The deepest or bottom sleeve was selected for laboratory analysis. The split-spoon samples holding the sleeve for SS-04 was damaged so that the sleeve containing the sample soil was wedged in the sampling tool. Soil from the damaged tube was pushed directly into a sleeve capped on one end. The sleeve was tightly packed with soil and capped. The method of soil sample collection is discussed in Section 1.3.3 of Appendix D.

3.5 Soil Sample Analysis

All soil samples were analyzed for volatile organic compounds using EPA methods 8010/8020 and for total recoverable petroleum hydrocarbons (TRPH) by EPA method 418.1. The samples were analyzed at a California certified laboratory, Terra Tech Labs. EPA PQLs of 5-10 μg/Kg for VOCs and 1 mg/Kg for TRPH were achieved by the laboratory. The chain of custody and analytical reports for these samples are found in Appendix E.

4.0 DISCUSSION OF ANALYTICAL RESULTS

4.1 Soil Gas Data

Table 2 shows a summary of the field laboratory results for soil gas samples collected from the current truck wash and steam clean area. Table 3 shows the tabulated field laboratory results for the former truck wash and steam clean area. These tables show the gas probe number (the locations of which are shown in Figures 2 and 3), the date sampled, clarification

TABLE 2: SOIL GAS DATA
FIELD LABORATORY RESULTS (ug/L)

AREA: TRUCK WASH & STEAM CLEAN BAYS, GTE IRWINDALE

Vapor Probe No.:	Date Sampled	Notes	Depth (feet bgs)	CHLORO-ETHANE	1,1 DCE	1,1,1 TCA	TCE	1,1,2,2 PCA	TOTAL VOC
SG-01	6/24/91	West of Hazardous Waste	4	<0.01	<0.01	0.16	<0.01	<0.01	26.60
	6/24/91	Storage Area	8	<0.01	<0.01	0.04	<0.01	<0.01	62.20
SG-01B	6/24/91	Duplicate Sample	4	<0.01	<0.01	0.17	<0.01	<0.01	35.30
	6/24/91	Duplicate Sample	8	<0.01	<0.01	0.22	<0.01	<0.01	104.5
SG-02	6/24/91	Cesspool A	4	<0.01	<0.01	0.41	<0.01	<0.01	54.90
	6/24/91		8	<0.01	<0.01	0.88	<0.01	<0.01	132.00
SG-03	6/24/91	West of Sand/Grease	4	<0.01	<0.01	0.23	<0.01	<0.01	10.93
	6/24/91	Intercepter	8	<0.01	<0.01	0.10	<0.01	<0.01	10.30
SG-04	6/24/91	Sand / Grease Intercepter	4	<0.01	<0.01	1.13	<0.01	<0.01	16.68
	6/24/91	Outlet	8	0.62	<0.01	0.93	<0.01	<0.01	58.90
SG-04B	6/24/91	Duplicate Sample	8	1.00	<0.01	0.53	<0.01	<0.01	215.10
SG-05	6/24/91	West of Hazardous Waste	4	<0.01	<0.01	0.35	<0.01	<0.01	5.81
	6/24/91	Storage Area	8	<0.01	<0.01	0.56	<0.01	<0.01	5.41
SG-06	6/24/91	Sand / Grease Intercepter	4	<0.01	<0.01	1.35	<0.01	<0.01	5.71
	6/24/91	Inlet	8	<0.01	<0.01	1.81	<0.01	<0.01	6.25
SG-08	6/25/91	Septic Tank A	4	<0.01	<0.01	0.61	<0.01	<0.01	11.10
	6/25/91		8	<0.01	<0.01	0.05	<0.01	<0.01	6.00
SG-09	6/25/91	Septic Tank B	4	<0.01	<0.01	0.36	<0.01	<0.01	12.62
	6/25/91		8'10"	<0.01	<0.01	0.37	<0.01	<0.01	69.30
SG-09B	6/25/91	Duplicate Sample	4	<0.01	<0.01	0.81	<0.01	<0.01	4.68
SG-10	6/25/91	Rinsate/Soap Basin	4'8"	<0.01	<0.01	0.10	<0.01	<0.01	2.65
	6/25/91		8	<0.01	<0.01	0.15	<0.01	<0.01	3.00

TABLE 2: SOIL GAS DATA
FIELD LABORATORY RESULTS (ug/L)

AREA: TRUCK WASH & STEAM CLEAN BAYS, GTE IRWINDALE

Vapor Probe No.:	Date Sampled	Notes	Depth (feet bgs)	CHLORO-ETHANE	1,1 DCE	1,1,1 TCA	TCE	1,1,2,2 PCA	TOTAL VOC
SG-11	6/25/91	East of Hazardous Waste	4	<0.01	<0.01	**0.08**	<0.01	<0.01	2.26
	6/25/91	Storage Area	8	<0.01	<0.01	**0.13**	<0.01	<0.01	5.20
SG-12	6/25/91	West of Steam Clean	4	<0.01	<0.01	**0.20**	<0.01	<0.01	2.63
	6/25/91	Drain	8	<0.01	<0.01	**0.20**	<0.01	<0.01	3.56
SG-12B	6/25/91	Duplicate Sample	8	<0.01	<0.01	**0.21**	<0.01	<0.01	1.23
SG-13	6/25/91	Steam Cleaning Area	4	<0.01	<0.01	**0.33**	<0.01	<0.01	1.70
	6/25/91		8	<0.01	<0.01	**0.26**	<0.01	<0.01	2.41
SG-14	6/25/91	South of Hazardous Waste	4	<0.01	<0.01	**0.24**	<0.01	<0.01	6.78
	6/25/91	Storage Area	8'6"	<0.01	<0.01	**0.38**	<0.01	<0.01	8.13
SG-15	6/25/91	Steam Cleaning Area	4	<0.01	<0.01	**0.30**	<0.01	<0.01	4.57
	6/25/91		8	<0.01	<0.01	**0.32**	<0.01	<0.01	4.32
SG-23	6/26/91	Former Waste Storage Area	4	<0.01	<0.01	**0.14**	<0.01	<0.01	1.73
	6/26/91		8	<0.01	<0.01	**0.22**	<0.01	<0.01	0.89
SG-24	6/26/91	Adjacent to Drum	4	<0.01	<0.01	**0.50**	<0.01	<0.01	3.18
	6/26/91	Storage Area	8	<0.01	<0.01	**0.25**	<0.01	<0.01	1.92
SG-25	6/26/91	Cesspool in Truck Wash	4	<0.01	<0.01	**0.03**	<0.01	<0.01	1.15
	6/26/91		8	<0.01	<0.01	**0.13**	<0.01	<0.01	1.41
SG-26	6/27/91	Truck Wash-Center	4	<0.01	<0.01	**0.23**	<0.01	**0.09**	4.46
	6/27/91		8	<0.01	<0.01	**0.05**	<0.01	<0.01	18.11
SG-26B	6/27/91	Duplicate Sample	4	<0.01	<0.01	**0.21**	<0.01	<0.01	2.56
SG-27	6/27/91	Truck Wash-West End	4	<0.01	<0.01	**0.76**	<0.01	<0.01	10.38
	6/27/91	(By Sump)	8	<0.01	<0.01	**0.53**	<0.01	<0.01	8.21
SG-27B	6/27/91	Duplicate Sample	4	<0.01	<0.01	**0.89**	<0.01	<0.01	6.42
SG-28	6/27/91	East of Truck Wash	4	<0.01	<0.01	**0.24**	<0.01	<0.01	6.45
	6/27/91	(Entrance)	6'8"	<0.01	<0.01	**0.19**	<0.01	<0.01	9.03

TABLE 3: SOIL GAS DATA
FIELD LABORATORY RESULTS (ug/L)

AREA: FORMER TRUCK WASH & STEAM CLEAN BAYS, GTE IRWINDALE

Vapor Probe No.:	Date Sampled	Notes	Depth (feet bgs)	CHLORO-ETHANE	1,1 DCE	1,1,1 TCA	TCE	1,1,2,2 PCA	TOTAL VOC
SG-07	6/25/91	Former Steam Clean Bay	4	<0.01	<0.01	**0.31**	<0.01	<0.01	7.81
	6/25/91		6'10"	<0.01	<0.01	**0.17**	<0.01	<0.01	6.72
SG-16	6/26/91	Former Steam Clean Bay	4	<0.01	<0.01	**0.25**	<0.01	<0.01	5.31
	6/26/91		6'6"	<0.01	<0.01	**0.24**	<0.01	<0.01	11.13
SG-17	6/26/91	Former Steam Clean Bay	4	<0.01	<0.01	**0.13**	<0.01	<0.01	5.79
	6/26/91		6'6"	<0.01	<0.01	**0.19**	<0.01	<0.01	2.49
SG-18	6/26/91	Former Steam Clean Bay	4	<0.01	<0.01	**0.27**	<0.01	<0.01	6.74
SG-19	6/26/91	Former Truck Wash Bay	4	<0.01	<0.01	**0.60**	<0.01	<0.01	5.27
	6/26/91		7'6"	<0.01	<0.01	**1.12**	<0.01	<0.01	7.01
SG-19B	6/26/91	Duplicate Sample	7'6"	<0.01	<0.01	**1.07**	<0.01	<0.01	11.73
SG-20	6/26/91	Former Truck Wash Bay	4	<0.01	<0.01	**0.20**	<0.01	<0.01	2.15
	6/26/91		7'6"	<0.01	<0.01	**0.24**	<0.01	<0.01	1.19
SG-21	6/26/91	Former Truck Wash Bay	4	<0.01	<0.01	**0.25**	<0.01	<0.01	11.92
	6/26/91		6'7"	<0.01	<0.01	**0.39**	<0.01	<0.01	4.53
SG-22	6/26/91	Former Clarifier Inlet	4	<0.01	<0.01	**0.37**	<0.01	<0.01	8.94
	6/26/91		6'4"	<0.01	<0.01	**0.45**	<0.01	<0.01	4.85

notes, depth of collection, and the field laboratory results for chloroethene, 1,1,1-TCA, TCE, 1,1,2,2-PCA, 1,1-DCE and total VOCs. The following compounds were not detected among the samples analyzed: 1,1-dichloroethane; trichloroethene.

4.2 Discussion of Soil Gas Analytical Results

The results of the soil gas study showed the following:

Chloroethane was not detected (<0.01 μg/L) among the samples analyzed except for the samples taken at the current clarifier outlet.

1,1-DCE was not detected (<0.01 μg/L) among the samples analyzed.

Low levels of 1,1,1-TCA were found among the soil gas samples analyzed. The peak occurrence of 1,1,1-TCA was found at the truck wash clarifier (1.81 μg/L). However, 1,1,1-TCA was not detected among the soil samples analyzed <1.0 μg/L.

TCE was not detected (<0.01 μg/L) among the samples analyzed.

1,1,2,2-PCA was not detected among the samples analyzed (<0.01 μg/L) except in the sample from SG-26 at 4 feet BGS, at 0.09 μg/L. The duplicate of this sample did not show a detectable amount of 1,1,2,2-PCA (<0.01 μg/L).

Total VOC samples showed less than 10 μg/L in most of the concentrations detected. The peak occurrence (215.10 μg/L) was at the clarifier outlet. Methods 8010 and 8020 analysis of the soil at this location showed no detectable concentrations of volatile or halogenated organic compounds.

4.3 Discussion of Confirmatory Soil Samples Analysis

Table 4 shows the tabulated results of the California certified laboratory analysis of the four soil samples collected to confirm the soil gas data.

TABLE 4
GTE IRWINDALE
SOIL SAMPLE RESULTS

Soil Sample	Sample Depth (feet B.G.S.)	Benzene EPA Method 8020 ug/Kg	Toluene EPA Method 8020 ug/Kg	Ethylbenzene EPA Method 8020 ug/Kg	Xylenes EPA Method 8020 ug/Kg	All Compounds EPA Method 8010 ug/Kg	TRPH EPA Method 418.1 mg/Kg
SS-04	7.75	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	11000
SS-22	5	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	10
SS-24	9	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<1.0
SS-25	7.75	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	27

ND= Not Detected

4.3.1 Clarifier

This structure, also called the sand/grease intercepter, is found at the northwest corner of the truck wash. Soil gas samples taken at the clarifier outlet at 8 feet BGS (SG-04) showed concentrations of chloroethane to 1.00 μg/L; 1,1,1-TCA to 0.93 μg/L; and total VOC to 215.10 μg/L. The inlet area of the clarifier also showed the peak occurrence of 1,1,1-TCA in soil gas, 1.81 μg/L. Soil sample SG-04 taken at 7.75 feet BGS adjacent to SG-04 showed no detectable concentrations of 8010 or 8020 compounds and a TRPH concentration of 11,000 mg/Kg.

4.3.2 Cesspool B

This abandoned cesspool is located at the eastern end of the current truck wash. Soil gas results showed 1,1,1-TCA concentrations to 0.13 μg/Kg in SG-25 from 8 feet BGS and total VOC to 1.41 μg/Kg in the same sample. Soil sample SS-25 from 7.75 feet BGS adjacent to SG-25 showed no detectable concentrations of 8010 or 8020 compounds and a TRPH concentration of 27 mg/Kg.

4.3.3 Drum Storage Area

This area is separated from the northern end of the current steam clean area by a block wall. Drums of oils and lubricants and cleaning solvents are stored here for dispensing. Soil gas sample point SG-24 was placed in the steam clean area, adjacent to the block wall. The four feet BGS sample showed concentrations of 1,1,1-TCA to 0.50 μg/L and total VOC to 3.18 μg/L. Soil sample SS-24 from 9 feet BGS showed no detectable concentrations of 8010, or 8020 compounds or TRPH.

4.3.4 Former Clarifier Inlet

This clarifier is located at the former truck wash/steam clean area. Soil gas sample point

SG-22 showed a peak concentration of 1,1,1-TCA of 0.45 μg/L at the 6 feet 4 inch BGS sample. At four feet BGS, the total VOC concentration was 8.94 μg/L. Soil sample SS-22 from 5 feet BGS had no detectable concentrations of 8010 or 8020 compounds and a TRPH concentration of 10 mg/Kg.

5.0 ISOCONCENTRATION MAPS

5.1 Contour Program

The isoconcentration maps presented in this report were developed using the Digital Terrain Modeling (DTM) program. DTM allows site design and terrain modeling inside AutoCAD^{R}. DTM is used primarily for complex civil engineering projects such as site, roadway and excavated structure design and modeling. DTM lends itself for use in isoconcentration maps because it interpolates contours based on observed concentration (or elevation) data only within the boundaries of the study area. This feature is contrasted to some programs which extrapolate contours beyond the boundaries of the study area. The main limitation of DTM is that it applies a precise, high contrast resolution mapping technique to soil gas measurements which are an approximation of the parameter of interest.

Soil gas data presented in isoconcentration map form must be interpreted keeping magnitude of concentration and possible source points in perspective. For instance, 1,1,1-TCA concentrations found in soil gas ranged from 0.03 μg/L sample SG-25 4 foot at the cesspool in the current truck wash) to 1.81 μg/L (sample SG-06 8 foot at the inlet of the sand/grease to intercepter inlet). Presentation of these data in isoconcentration map form shows steep contours over the truck wash and steam clean area where the variation in observed data is less than 2.0 μg/L (Figure 6).

Table 5 shows the isoconcentration map figure number, area of concern parameter of interest, sample depth, and range of concentration.

TABLE 5
GTE IRWINDALE
SOIL GAS CONCENTRATION RANGE

Figure No.	Area of Concern	Parameter of Interest	Sample Depth (ft.)	Range of Concentration (µg/L)	Contour Gradient Interval (µg/L)
4	Truck Wash and Steam Clean Bays	Total VOC	4	1.15 to 54.90	5.0
5	Truck Wash and Steam Clean Bays	Total VOC	8	0.89 to 215.10	5.0
6	Truck Wash and Steam Clean Bays	1,1,1-TCA	4	0.03 to 1.35	0.2
7	Truck Wash and Steam Clean Bays	1,1,1-TCA	8	0.04 to 1.81	0.2
8	Former Truck Wash and Steam Clean Bays	Total VOC	4	2.15 to 11.92	1.0
9	Former Truck Wash and Steam Clean Bays	Total VOC	8	1.19 to 11.73	1.0
10	Former Truck Wash and Steam Clean Bays	1,1,1-TCA	4	0.13 to 0.60	0.2
11	Former Truck Wash and Steam Clean Bays	1,1,1-TCA	8	0.17 to 1.12	0.2

5.2 Truck Wash and Steam Clean Area

5.2.1 Total VOCs

The isoconcentration maps on Figures 4 and 5 show plotted total VOC concentration in the current truck wash and steam clean area. Concentration plots show to a lesser degree at 4 feet BGS in Figure 4 and to a greater degree at the 8 feet BGS on Figure 5 that soil gas total VOC concentrations are greater in the area from the septic tanks to cesspool A, in the center of which lies the clarifier.

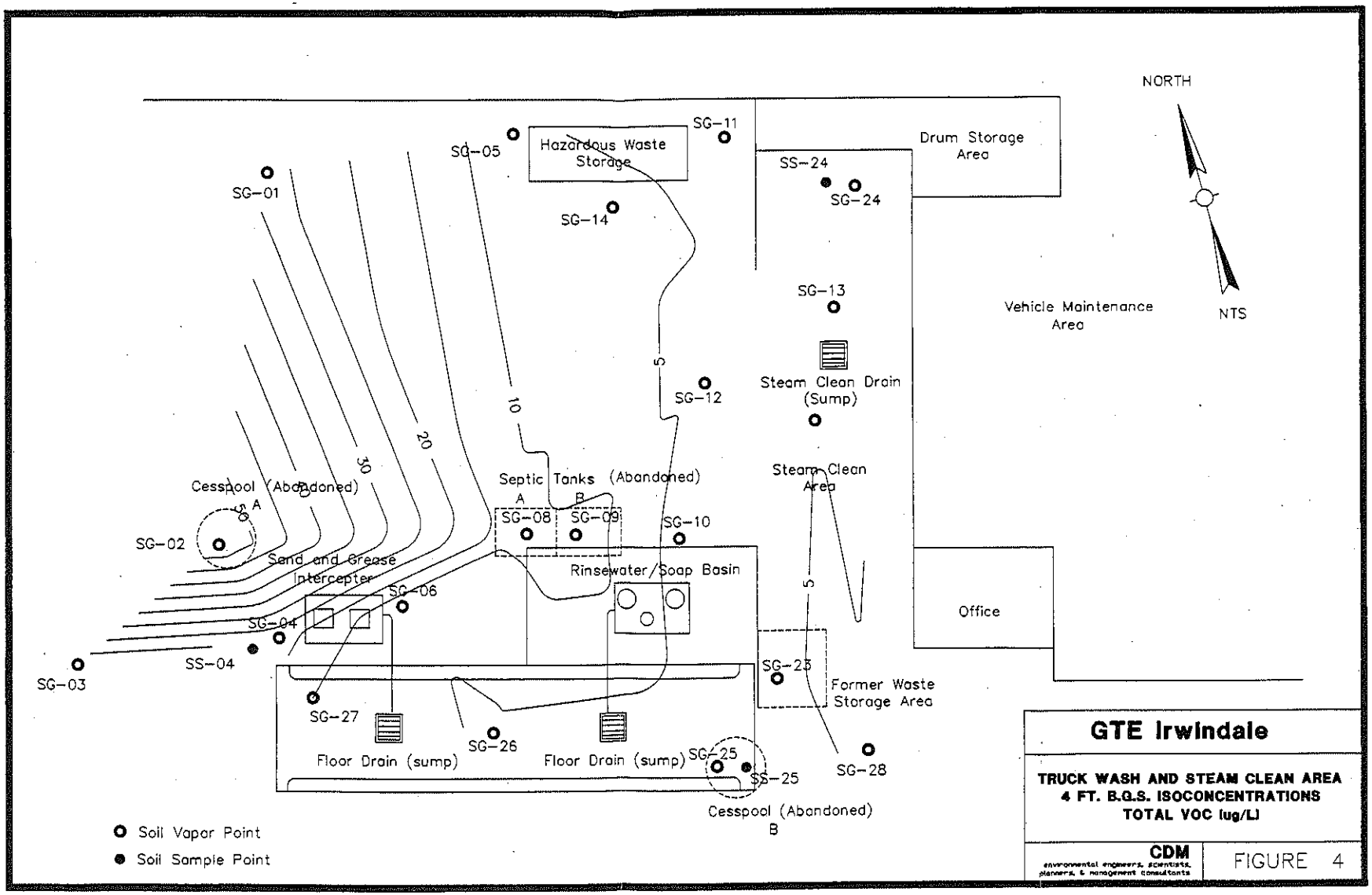
5.2.2 1,1,1-TCA

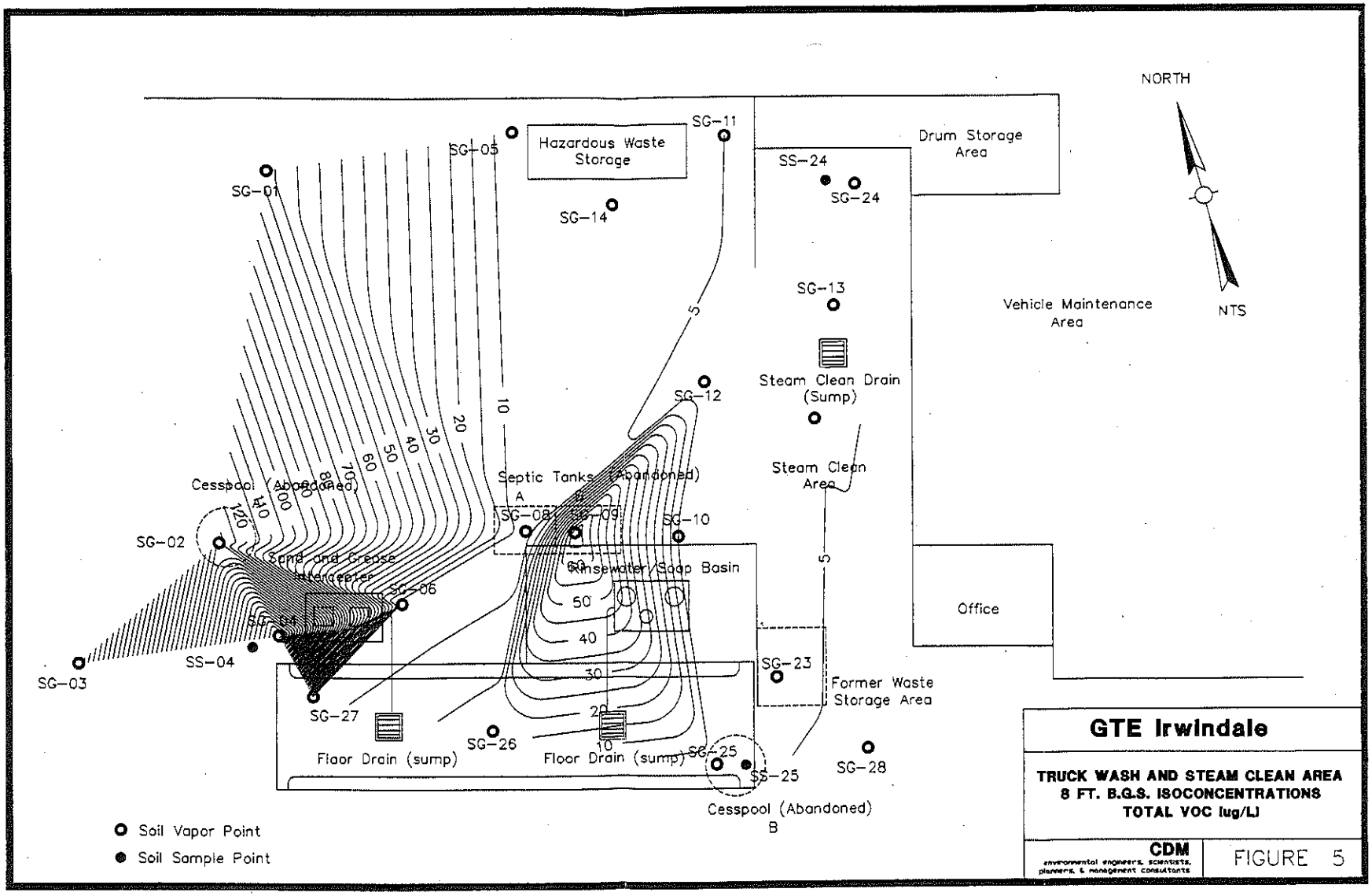
The 4-foot BGS map for 1,1,1-TCA (Figure 6) shows an area of concentration centering on SG-13 and extending from SG-24 to SG-28. 1,1,1-TCA concentration for this area ranges from 0.50 μg/L (SG-24-4 feet) to 0.29 μg/L (SG-28-4 feet). A soil sample from the area near SG-24 showed no detectable 1,1,1-TCA concentration. On Figure 7 (8 feet BGS), the area from the septic tanks to cesspool A shows a central peak at the clarifier caused by a concentration of 1.81 μg/L.

5.3 Former Truck Wash and Steam Clean Area

5.3.1 Total VOC

In the former truck wash and steam clean area, the 4-foot BGS total VOC plot is shown on Figure 8. This map shows a central concentration peak caused by sample SG-21-4 feet which had a concentration of 11.92 μg/L. The 8 feet BGS total VOC data presented on Figure 9, show a northerly trending increased concentration plot to SG-16 which had a total VOC concentration of 11.13 μg/L at 8 feet BGS.


NORTH
NTS
SG-01
SG-02
SG-03
SG-04
SG-05
SG-06
SG-08
SG-09
SG-10
SG-11
SG-12
SG-13
SG-14
SG-23
SG-24
SG-25
SG-26
SG-27
SG-28
SS-04
SS-24
SS-25
Hazardous Waste Storage
Drum Storage Area
Vehicle Maintenance Area
Steam Clean Drain (Sump)
Steam Clean Area
Office
Former Waste Storage Area
Cesspool (Abandoned) A
Septic Tanks (Abandoned) A B
Sand and Grease Intercepter
Rinsewater/Soap Basin
Floor Drain (sump)
Floor Drain (sump)
Cesspool (Abandoned) B
5
10
20
30
Soil Vapor Point
Soil Sample Point
GTE Irwindale
TRUCK WASH AND STEAM CLEAN AREA
4 FT. B.G.S. ISOCONCENTRATIONS
TOTAL VOC (ug/L)
CDM
environmental engineers, scientists, planners, & management consultants
FIGURE 4


NORTH
NTS
Hazardous Waste Storage
Drum Storage Area
Vehicle Maintenance Area
Steam Clean Drain (Sump)
Steam Clean Area
Office
Former Waste Storage Area
Cesspool (Abandoned) A
Septic Tanks (Abandoned)
Sand and Grease Interceptor
Rinsewater/Soap Basin
Floor Drain (sump)
Floor Drain (sump)
Cesspool (Abandoned) B
SG-01
SG-02
SG-03
SG-04
SG-05
SG-06
SG-08
SG-09
SG-10
SG-11
SG-12
SG-13
SG-14
SG-23
SG-24
SG-25
SG-26
SG-27
SG-28
SS-04
SS-24
SS-25
5
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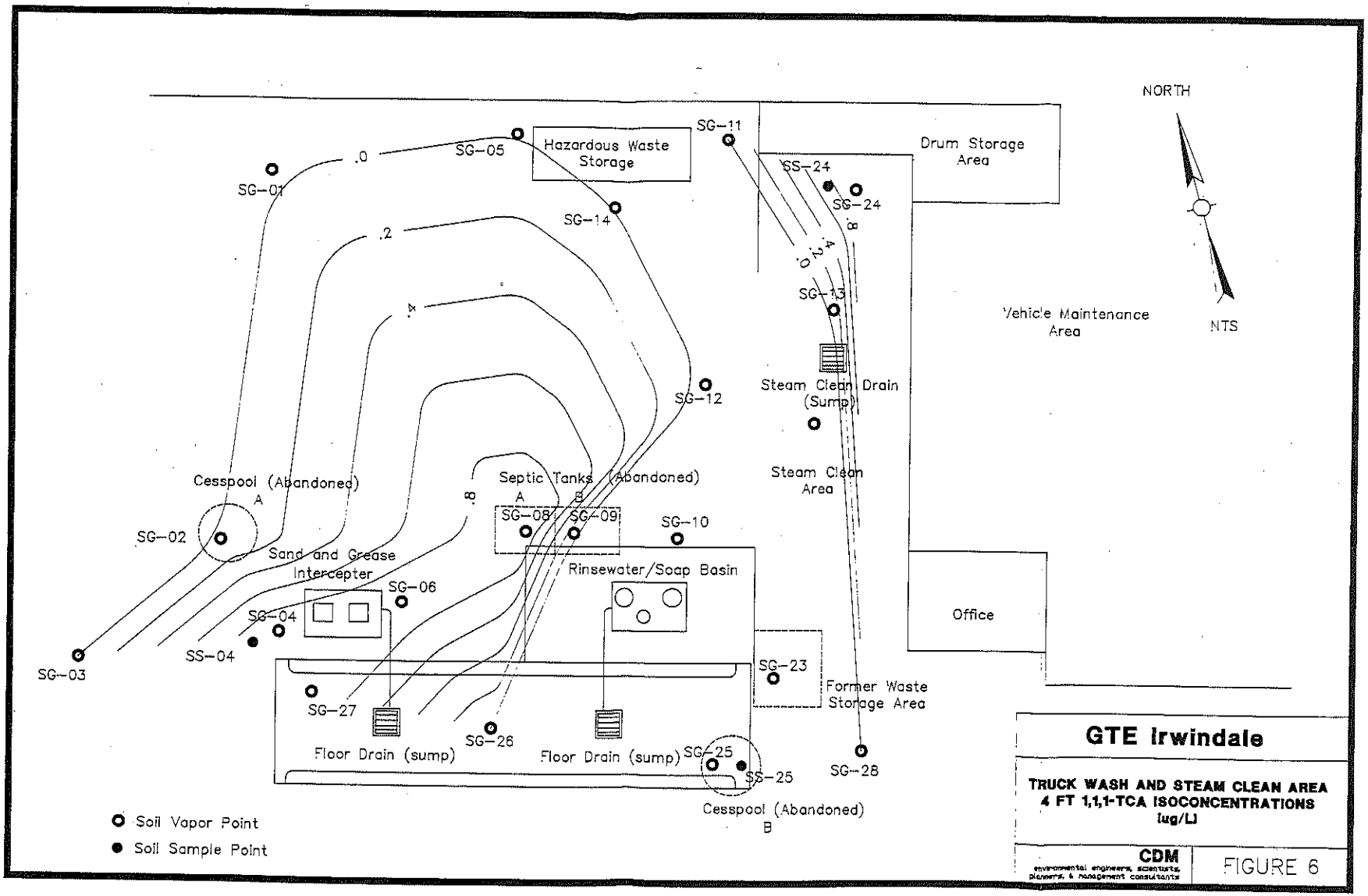
20
30
40
50
60
70
80
90
100
120
140
Soil Vapor Point
Soil Sample Point
GTE Irwindale
TRUCK WASH AND STEAM CLEAN AREA
8 FT. B.G.S. ISOCONCENTRATIONS
TOTAL VOC (ug/L)
CDM
environmental engineers, scientists, planners, & management consultants
FIGURE 5


NORTH
NTS
SG-01
SG-02
SG-03
SG-04
SG-05
SG-06
SG-08
SG-09
SG-10
SG-11
SG-12
SG-13
SG-14
SG-23
SG-24
SG-25
SG-26
SG-27
SG-28
SS-04
SS-24
SS-25
.0
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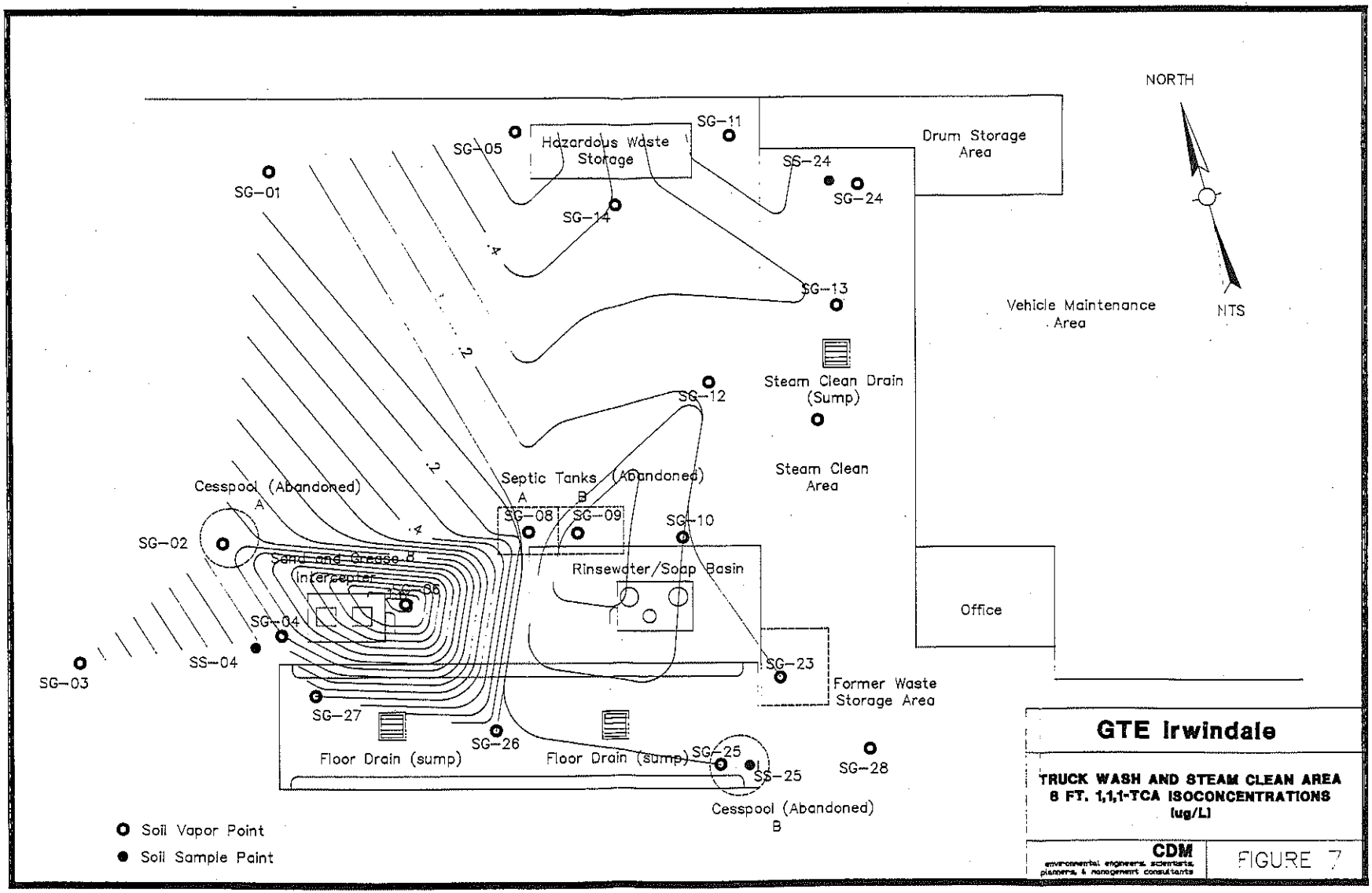
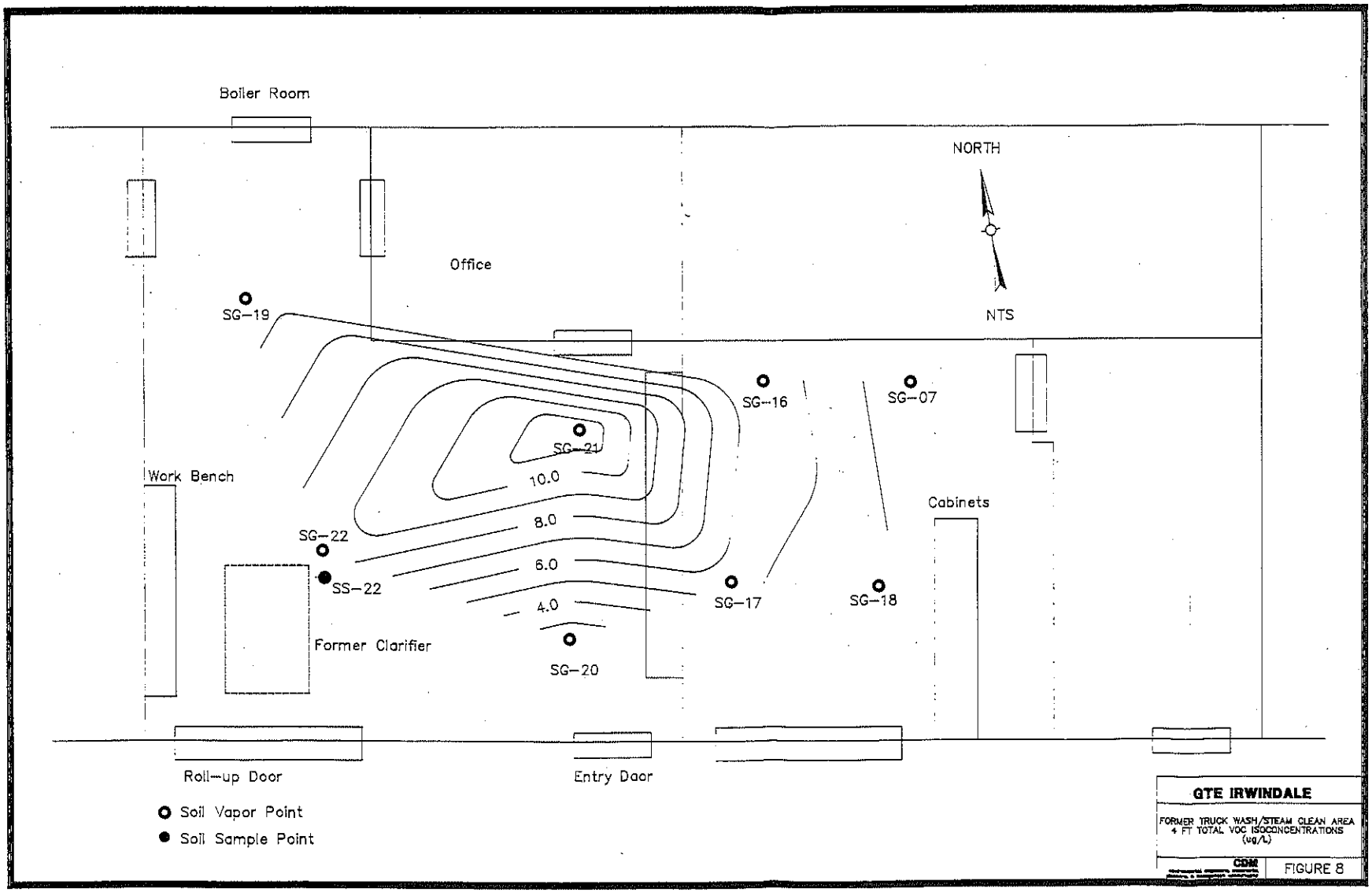
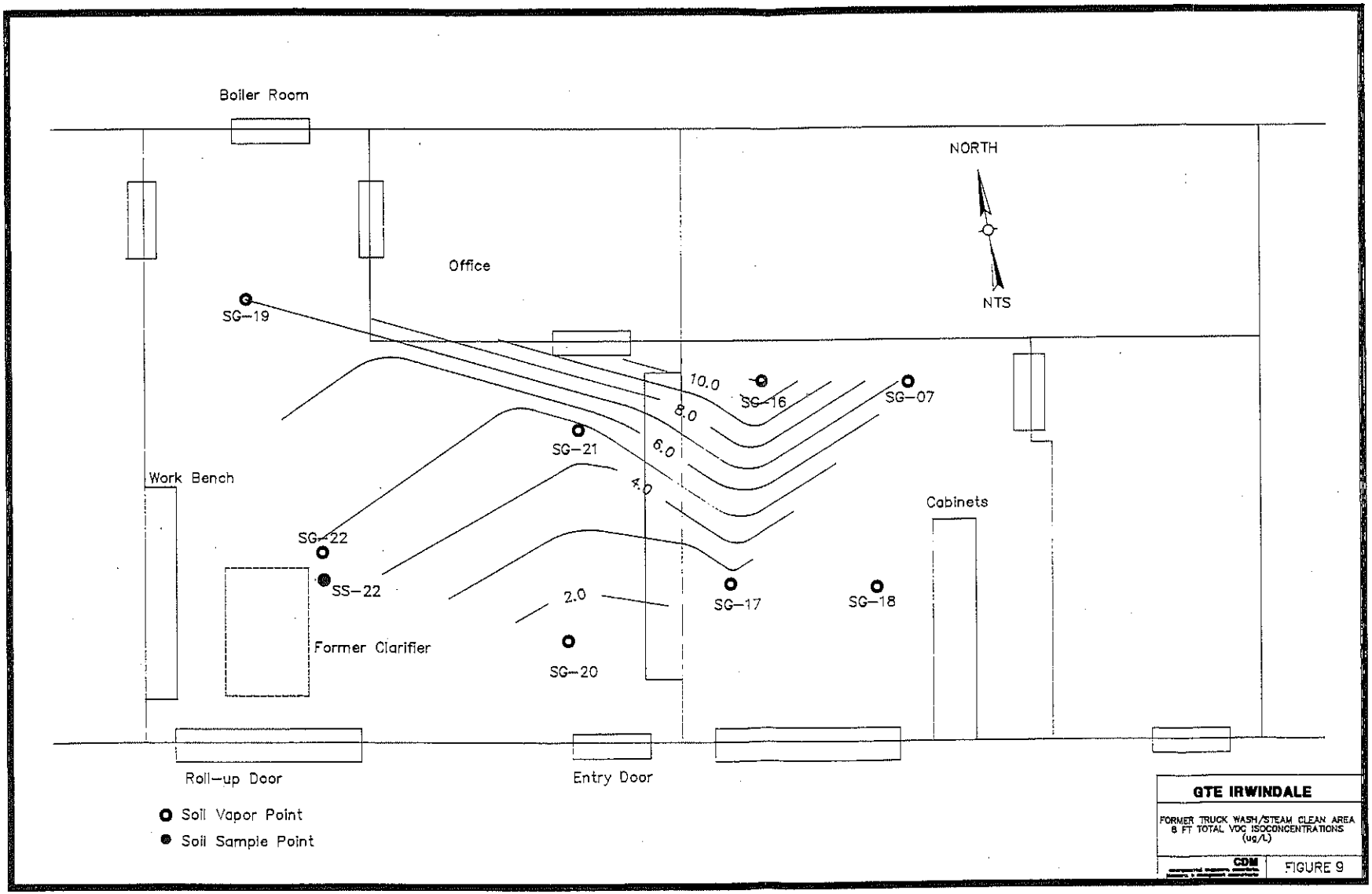
.8
A
B
Hazardous Waste Storage
Drum Storage Area
Vehicle Maintenance Area
Steam Clean Drain (Sump)
Steam Clean Area
Cesspool (Abandoned) A
Septic Tanks (Abandoned) A B
Sand and Grease Intercepter
Rinsewater/Soap Basin
Office
Former Waste Storage Area
Floor Drain (sump)
Floor Drain (sump)
Cesspool (Abandoned) B
Soil Vapor Point
Soil Sample Point
GTE Irwindale
TRUCK WASH AND STEAM CLEAN AREA
4 FT 1,1,1-TCA ISOCONCENTRATIONS
(ug/L)
CDM
environmental engineers, scientists, planners, & management consultants
FIGURE 6


NORTH
NTS
SG-01
SG-02
SG-03
SG-04
SG-05
SG-06
SG-08
SG-09
SG-10
SG-11
SG-12
SG-13
SG-14
SG-23
SG-24
SG-25
SG-26
SG-27
SG-28
SS-04
SS-24
SS-25
Hazardous Waste Storage
Drum Storage Area
Vehicle Maintenance Area
Steam Clean Drain (Sump)
Steam Clean Area
Septic Tanks (Abandoned) A B
Cesspool (Abandoned) A
Sand and Grease & Interceptor
Rinsewater/Soap Basin
Office
Former Waste Storage Area
Floor Drain (sump)
Floor Drain (sump)
Cesspool (Abandoned) B
.4
.2
.2
.4
Soil Vapor Point
Soil Sample Point
GTE Irwindale
TRUCK WASH AND STEAM CLEAN AREA
8 FT. 1,1,1-TCA ISOCONCENTRATIONS
(ug/L)
CDM
environmental engineers, scientists, planners, & management consultants
FIGURE 7


Boiler Room
Office
NORTH
NTS
SG-19
SG-16
SG-07
SG-21
10.0
8.0
6.0
4.0
Work Bench
Cabinets
SG-22
SS-22
SG-17
SG-18
Former Clarifier
SG-20
Roll-up Door
Entry Door
Soil Vapor Point
Soil Sample Point
GTE IRWINDALE
FORMER TRUCK WASH/STEAM CLEAN AREA
4 FT TOTAL VOC ISOCONCENTRATIONS
(ug/L)
CDM
FIGURE 8


Boiler Room
NORTH
NTS
Office
SG-19
10.0
8.0
6.0
4.0
SG-16
SG-07
SG-21
Work Bench
Cabinets
SG-22
SS-22
2.0
SG-17
SG-18
Former Clarifier
SG-20
Roll-up Door
Entry Door
Soil Vapor Point
Soil Sample Point
GTE IRWINDALE
FORMER TRUCK WASH/STEAM CLEAN AREA
8 FT TOTAL VOC ISOCONCENTRATIONS
(ug/L)
CDM
FIGURE 9

5.3.2 1,1,1-TCA

Figure 10 and Figure 11 show the 1,1,1-TCA concentration plots for the former truck wash area. Both of these plots show a gradually increasing concentration in a northwesterly direction toward SG-19, which had a peak concentration of 1.12 μg/L.

6.0 FINDINGS AND RECOMMENDATIONS

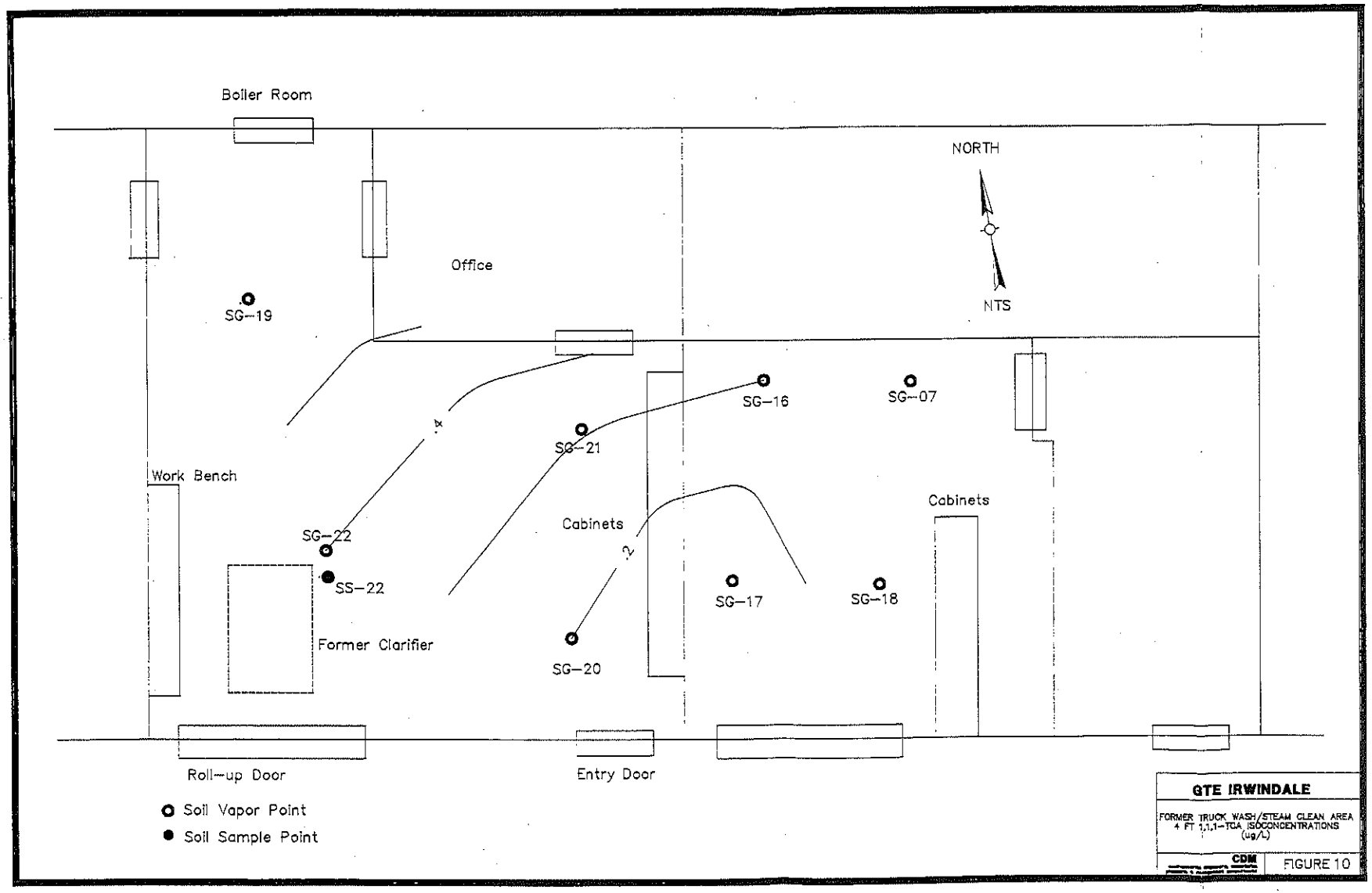
SoIL sample analysis to confirm soil gas data showed no detectable concentrations of aromatic or halogenated organic compounds.

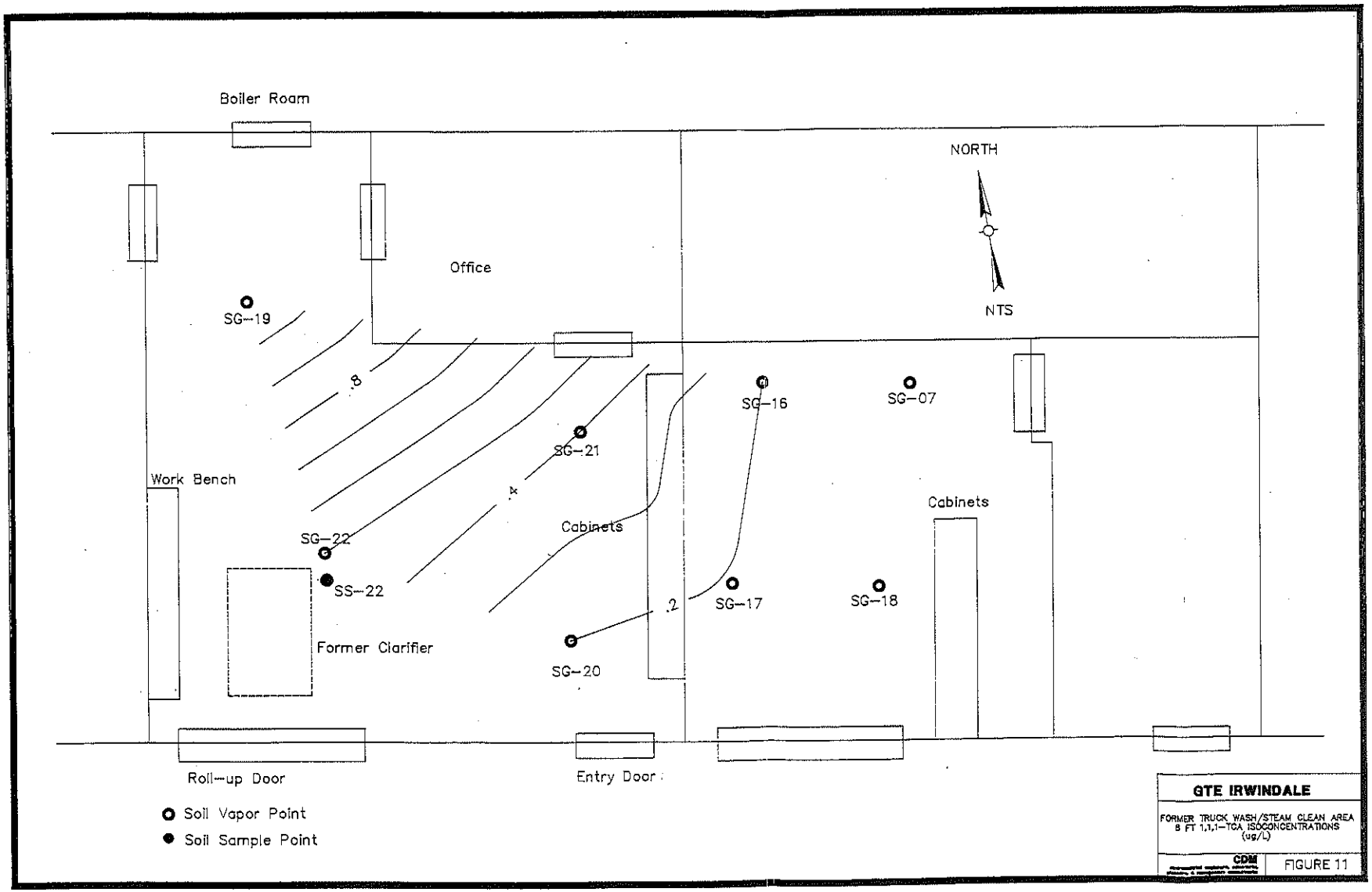
Low concentrations (from 0.04 to 1.81 μg/L) of 1,1,1-TCA are found in soil gas samples analyzed. It does not appear that a source area was present based on either soil gas or soil sample analysis.

The peak occurrence of total VOC by soil gas analysis was found at the clarifier outlet. Other areas showing elevated concentrations in soil gas total VOC at the former septic tanks and former cesspool which are in close proximity to the clarifier.

The results of confirmatory soil sample analysis showed that the soils at the inlet of the clarifier have concentrations of TRPH to 11,000 mg/Kg, but not detectable levels of 8010 or 8020 compounds. Due to the nature of the subsurface soils at the site (cobbles and gravel), further driven or drilled soil sampling is not practical. Soil gas data from points surrounding the clarifier do not indicate extensive TRPH contamination.

It is recommended that this clarifier and surrounding TRPH contaminated soil be removed and disposed of at an appropriate landfill. The clarifier may then be replaced with a system providing double containment. Concurrent with this excavation, soil samples may be obtained from the septic tank and cesspool A areas, and analyzed for 8010 and 8020 compounds and TRPH by EPA Method 418.1.


Boiler Room
Office
NORTH
NTS
SG-19
SG-16
SG-07
SG-21
.4
Work Bench
Cabinets
Cabinets
SG-22
.2
SS-22
SG-17
SG-18
Former Clarifier
SG-20
Roll-up Door
Entry Door
Soil Vapor Point
Soil Sample Point
GTE IRWINDALE
FORMER TRUCK WASH/STEAM CLEAN AREA
4 FT 1,1,1-TCA ISOCONCENTRATIONS
(ug/L)
CDM
FIGURE 10


Boiler Room
Office
NORTH
NTS
SG-19
.8
SG-16
SG-07
SG-21
Work Bench
4
Cabinets
Cabinets
SG-22
SS-22
SG-17
SG-18
.2
Former Clarifier
SG-20
Roll-up Door
Entry Door
Soil Vapor Point
Soil Sample Point
GTE IRWINDALE
FORMER TRUCK WASH/STEAM CLEAN AREA
8 FT 1,1,1-TCA ISOCONCENTRATIONS
(ug/L)
CDM
FIGURE 11

Appendix A

Letter from the California Regional Water Quality Control Board (CRWQCB)
Los Angeles Region to GTE, dated March 13, 1991

STATE OF CALIFORNIA

PETE WILSON

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
LOS ANGELES REGION
101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500

March 13, 1991

Ms. Jackie D. McCormick
GTE California Inc.
P.O. Box 725
Chino, CA 91708

CLARIFIER INSPECTION (FILE NO. AB108.0212)
GTE California Plant at 5010 North Azusa Canyon Rd., Irwindale, CA

This is in reference to the March 7, 1991 visual inspection of th clarifier and sumps conducted by Board staff after thes containments were pumped out and cleaned.

The steam cleaning and rinsewater/soap solution sumps appeare intact. Staff observed degraded concrete around the sump inlet a the west end of the truck wash bay. Also, the grout in the sea between the top of the clarifier and the concrete blocks buil above it was eroded. Clarifier materials may migrate through thi seam and impact the soil and potentially the ground water Analytical results of clarifier waste water indicated the presenc of 3,000 µg/l of 1,1,1 trichloroethane (TCA).

Note that clarifiers, operating or abandoned have been shown to b a source of soil contamination, which may be a threat to groun water.

You indicated on your December 17, 1990 letter that waste wate from the former truck wash and steam cleaning bays and boiler roo was diverted to the septic tank and cesspools prior to connectio to the sewer system.

Based on the above observations and information, you are directe to submit four (4) copies of a work plan for assessing th clarifier, current steam cleaning and truck wash bays and forme truck wash/steam cleaning bays, cesspools and septic tanks tha serviced the vehicle maintenance building. We request that yo conduct an active soil gas survey to field screen these areas an determine if soils beneath your the site have been impacted b septic tank/cesspool discharges and potential discharge from th current clarifier/sump system. The plan must address all of th items outlined on the enclosed WORK PLAN REQUIREMENTS FOR INITIA SUBSURFACE INVESTIGATION with the following changes:

I. Soil Gas Survey

Design a sensitive and quantitative active soil gas survey t screen the areas of concern for volatile organic compounds (VOC) The following are minimum requirements for the survey:

1. Locate sample nodes using 20-30 foot grids. Close-interval (10'-20') multi-depth sampling must be established in areas where elevated levels of VOCs are detected in the coarse survey. Provide a map of proposed sample nodes.

2. Obtain soil gas samples at an adequate depth below the ground surface to minimize any atmospheric effects.

3. Perform "real time" analysis of individual organic compounds with an on-site field laboratory using a gas chromatograph equipped with PID, ECD and/or Hall detectors.

4. Specify detection limits for soil gas analysis. Detection limits of 0.01 µg/l (soil gas) is generally required.

5. Discuss soil gas sample collection and analysis procedures. Provide quality assurance and quality control procedures, including chain of custody protocols.

6. Obtain discrete, undisturbed confirmatory soil samples, if possible, at soil gas "high" and "low" points. Note that the presence of cobbles in the subsurface may require multiple attempts to drill and obtain driven samples. The work plan should include alternative strategies to obtain discrete undisturbed samples.

7. Analyze all soil samples for volatile organic compounds (VOCs) in accordance with EPA Method(s) 8260 or 8010/8020 and for total petroleum hydrocarbons (TPH) using EPA Method 418.1. EPA practical quantitation limits of 5-10 µg/kg for VOCs and 1 mg/kg for TPH must be achieved by the laboratory.

8. Board staff wishes to be part of the data review conducted after the survey to determine the need for additional soil gas nodes and/or confirmatory soil sample borings.

II. Housekeeping Plan

Submit to this Board four (4) copies of a plan to:

1. Regrout the eroded seal between the top part of the clarifier and concrete blocks built above the clarifier in order to prevent potential discharges from migrating to the soil through this pathway.

2. Regrout eroded concrete around the sump inlet located at the west end of the truck wash bay.

3. Eliminate the discharge of TCA to the sump/clarifier system. Account for the TCA found in the clarifier waste water.

III. Schedule

Four copies of the subsurface investigation work plan and housekeeping plan must be submitted to this Regional Board by April 22, 1991. Please remember that neither plans should be implemented until they have been reviewed and approved by Board staff.

Please call Alex P. Carlos at (213) 266-7545 if you have any questions.

ROY R. SAKAIDA
Senior Water Resource
Control Engineer

RRS:apc

Enclosure

cc: Mr. Joe Viray, U.S. EPA- Region IX
Ms. Margaret H. Nellor, L. A. County Sanitation District
Ms. Nancy Cano, GTE California, Inc.- Irwindale Plant

Appendix B

Work Plan for an Initial Subsurface Investigation at the GTE Irwindale Facility, CRWQCB File No. AB108.0212

WORK PLAN FOR

AN INITIAL SUBSURFACE INVESTIGATION AT THE GTE, IRWINDALE FACILITY CRWQCB FILE NO. AB108.0212

Prepared for:

GTE OF CALIFORNIA
ENVIRONMENTAL COMPLIANCE
2844 FICUS STREET
POMONA, CA 91766

Prepared by:

CAMP DRESSER & MCKEE INC.
18881 VON KARMAN, SUITE 650
IRVINE, CA 92715

MAY 1991

CDM PROJECT NO.: 2425-110G-IR-WKPL

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2.0	SUBSURFACE INVESTIGATION DESCRIPTION	2
	2.1 Soil Vapor Study	2
	2.2 Soil Vapor Analysis	3
3.0	SUBSURFACE OBSTRUCTIONS	4
4.0	SOIL SAMPLES	4
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Figure 2	Truck Wash and Steam Clean Bays - Proposed Soil Vapor Probe Locations	2
Figure 3	Former Truck Wash and Steam Clean Bays - Proposed Soil Vapor Probe Locations	2
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Appendix A CRWQCB Letter Dated March 13, 1991
Appendix B GTE Facility Business Plan
Appendix C Soil Gas Sample Collection and Analytical Procedures
Appendix D Field Data Protocol

1.0 INTRODUCTION

1.1 Background and Purpose of the Work Plan

On March 17, 1991, the GTE facility located at 5010 North Azusa Road in Irwindale, California was inspected by California Regional Water Quality Control Board-Los Angeles Region (Board) staff. Staff observed degraded concrete around the sump inlet at the west end of the truck wash bay and eroded grout in the clarifier accepting water from the truck wash bay. Samples from the clarifier collected by Board staff indicated the presence of 3,000 $\mu g/L$ of 1,1,1-trichloroethane (TCA). Based on this inspection and on information provided to the Board by GTE, the Board, in a letter to GTE dated March 13, 1990, requested the submission of a Work Plan. This letter is included in Appendix A. This Work Plan is to describe appropriate methods to assess areas of concern which are detailed in the March 13, 1990 letter.

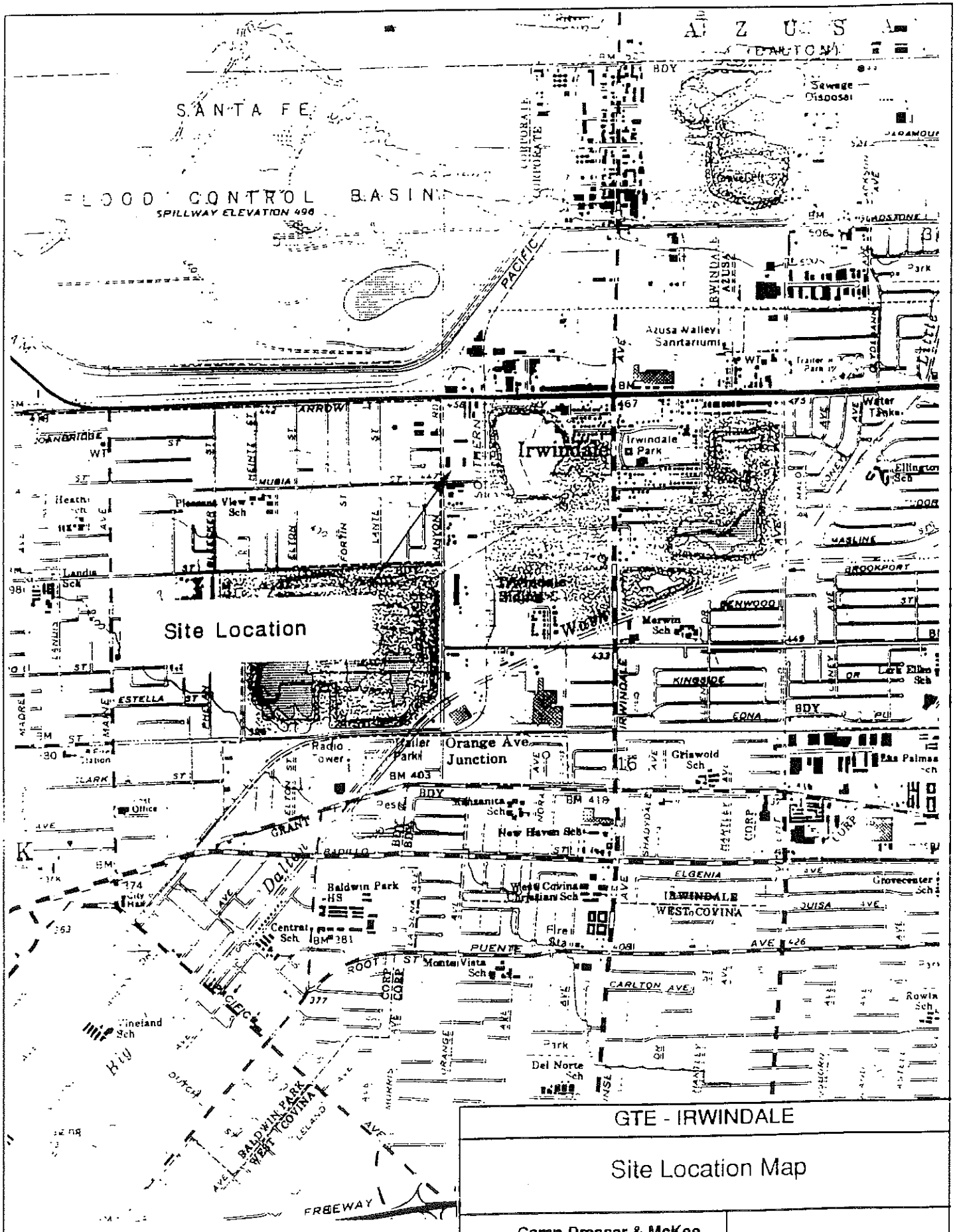
The Board has requested that an active soil gas survey be conducted at the areas of concern to determine if soils beneath the GTE Irwindale site have been impacted by current or past practices. This Work Plan outlines methodologies to perform an initial subsurface investigation at the GTE Irwindale site.

1.2 Site Location and Information

The GTE facility is located at 5010 North Azusa Canyon Road, in the city of Irwindale, California. A site location map is shown in Figure 1. The owner and operator of the site (GTE of California) is a public utility, telephone. The operations conducted at this facility include maintenance of service vehicles assigned to the facility. GTE began its occupation of the site in 1961. The prior land use is unknown, but the site was possibly vacant prior to 1961.

The owner of record (GTE Corporate headquarters) is:

GTE OF CALIFORNIA
1 GTE Place
Thousand Oaks, CA 91362



GTE - IRWINDALE

Site Location Map

Camp Dresser & McKee
CDM

FIGURE 1

GTE emergency contacts are: Ms. Jackie McCormick and/or Mr. Bill Westwood at 1-800-331-8891.

Appendix B is the business plan formulated for the site. This business plan identifies the areas and methods of storage of hazardous materials on the site.

1.3 Areas of Concern

The areas of concern detailed in the Board's letter dated March 13, 1991 are:

- Clarifier
- Current steam cleaning area
- Current truck wash bay
- Cesspools
- Septic tank

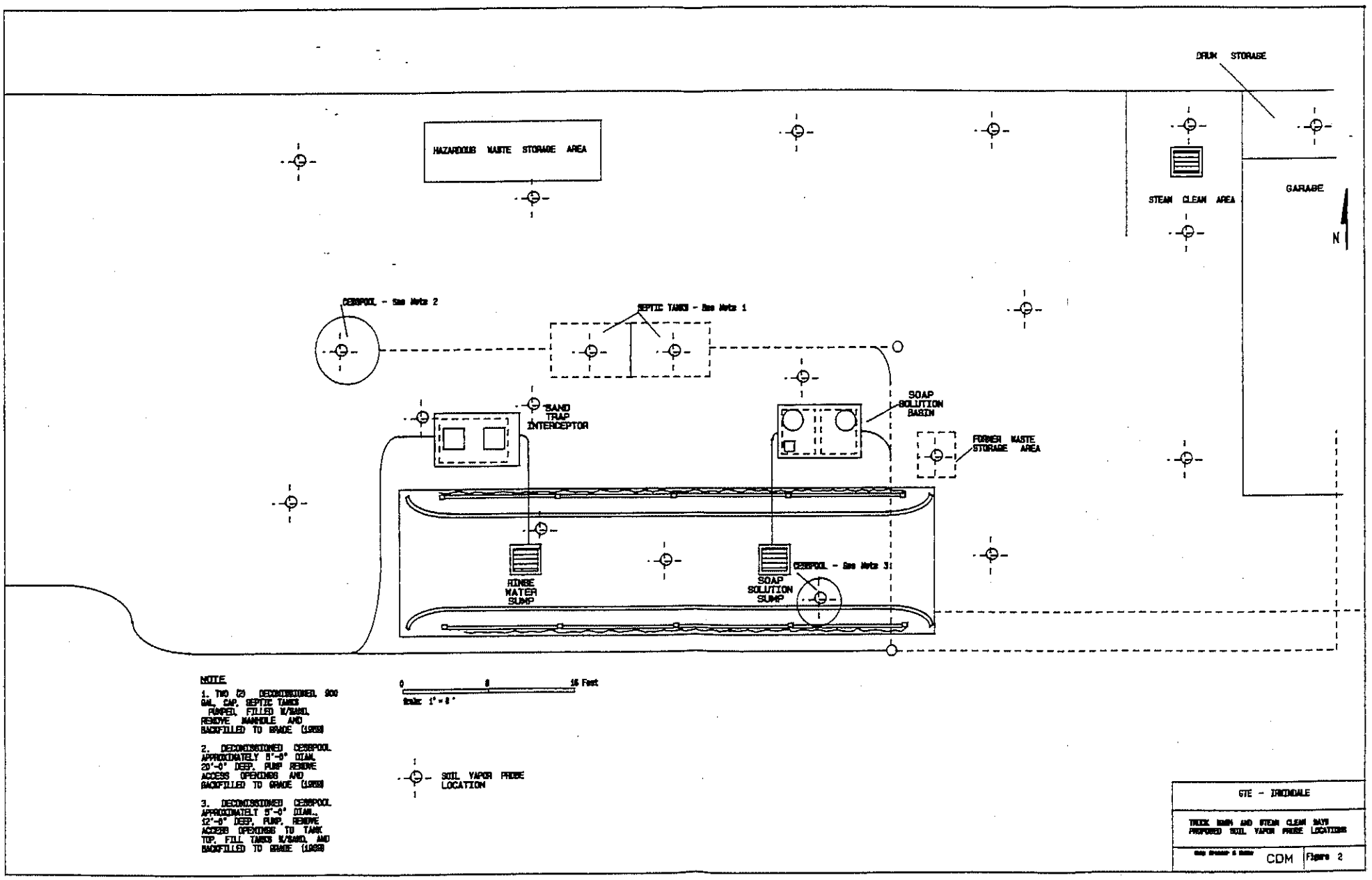
These areas are shown in Figure 2.

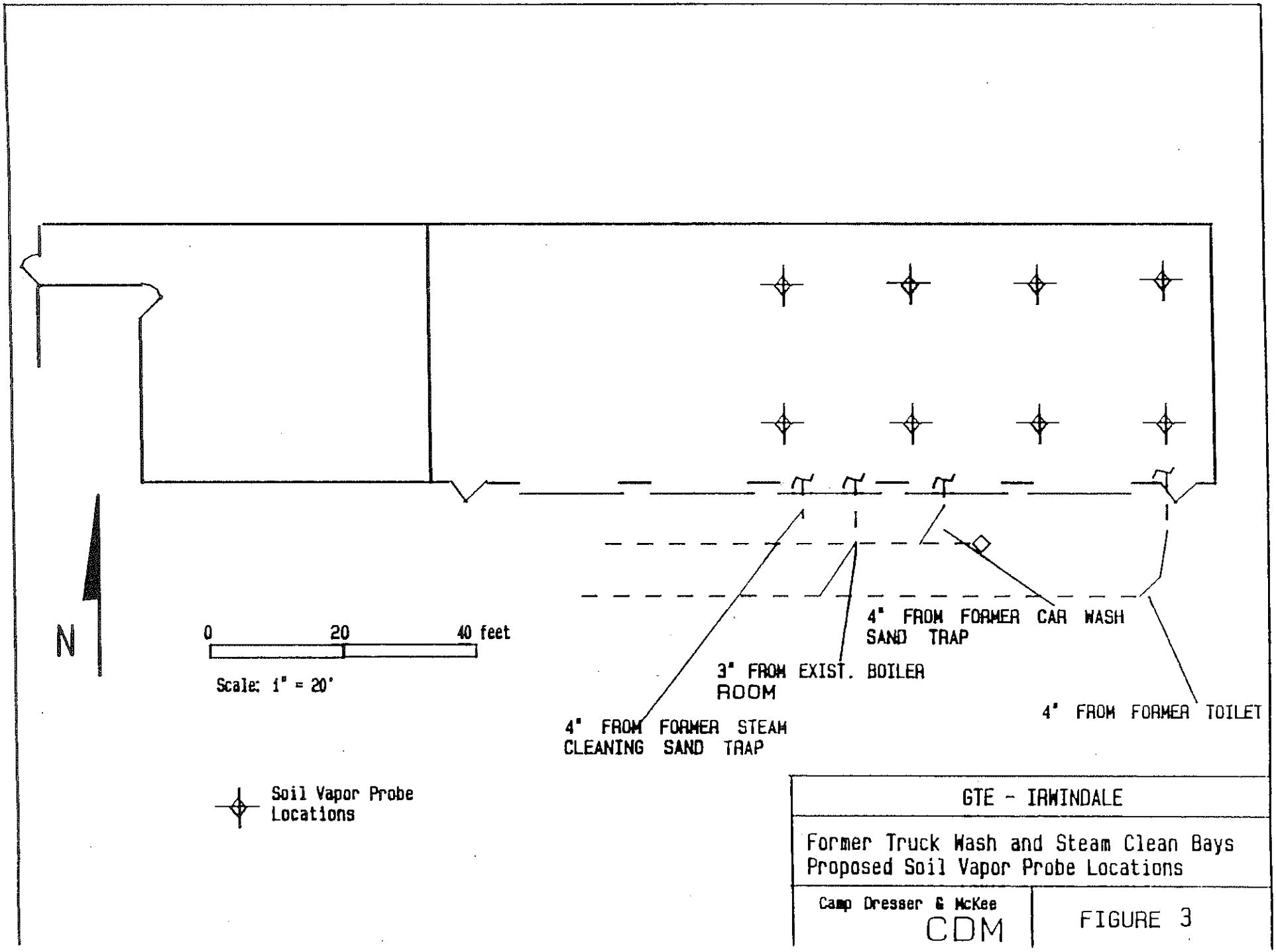
Figure 3 shows the approximate location of the former Truck Wash/Steam Clean Bay which was located in the east end of the vehicle maintenance building. This figure is based on available plans provided by GTE. Figure 4 is a site plan showing these areas in relation to the entire site.

2.0 SUBSURFACE INVESTIGATION DESCRIPTION

2.1 Soil Vapor Study

Soil vapor samples will be collected using the system developed by Hydro Geo Chem, Inc. Sampling probes are made of five-foot sections of 1-3/8" hardened drill rod. These rods are pushed, hydraulically, into the soil with a heavy duty hydraulic hammer mounted on a flat bed truck. The points are made of hardened steel and are left behind when the rod is hydraulically pulled back to allow the soil vapors to be withdrawn. This truck also comes equipped with an oil-less diaphragm vacuum pump and steam cleaner.


DRUM STORAGE
HAZARDOUS WASTE STORAGE AREA
STEAM CLEAN AREA
GARAGE
N
CESSPOOL - See Note 2
SEPTIC TANKS - See Note 1
SAND TRAP INTERCEPTOR
SOAP SOLUTION BASIN
FORMER WASTE STORAGE AREA
RINSE WATER SUMP
SOAP SOLUTION SUMP
CESSPOOL - See Note 3
NOTE
1. TWO (2) DECOMMISSIONED, 900 GAL. CAP. SEPTIC TANKS PUMPED, FILLED W/SAND, REMOVE MANHOLE AND BACKFILLED TO GRADE (1988)
2. DECOMMISSIONED CESSPOOL APPROXIMATELY 8'-0" DIAM. 20'-0" DEEP, PUMP, REMOVE ACCESS OPENINGS AND BACKFILLED TO GRADE (1988)
3. DECOMMISSIONED CESSPOOL APPROXIMATELY 5'-0" DIAM., 12'-0" DEEP, PUMP, REMOVE ACCESS OPENINGS TO TANK TOP, FILL TANKS W/SAND, AND BACKFILLED TO GRADE (1988)
0
8
16 Feet
Scale: 1" = 8'
SOIL VAPOR PROBE LOCATION
GTE - IRWINDALE
TRUCK WASH AND STEAM CLEAN BAYS PROPOSED SOIL VAPOR PROBE LOCATIONS
CDM
Figure 2



GTE - IRWINDALE

Former Truck Wash and Steam Clean Bays
Proposed Soil Vapor Probe Locations

Camp Dresser & McKee
CDM

FIGURE 3

Appendix E

Chain of Custody and Laboratory Reports

TERRA TECH LABS Inc.
ENVIRONMENTAL TESTING

[illegible] Suite 130
Santa Ana
[illegible]ifornia
[illegible]705
Tel 714 757.7022
Fax 714 757 7274

LABORATORY REPORT

Client:	Camp, Dresser & McKee	Report Date:	7/2/91
Client Address:	18881 Von Karman Suite 650 Irvine, CA 92715	Lab P.N.:	2040
		Client P.N.:	2425-110-ID
Contact:	Stephen Mutch	JUL 0 5 1991	
Project Name:	GTE Irwindale	Date Sampled:	6/28/91
Project Address:	5010 Azusa Canyon Road Irwindale, CA	Date Received:	6/28/91
		Date Analyzed:	6/28/91
		Physical State:	Solid

Quality Assurance/Quality Control Summary

Parameter (Method)	QC Type	Percent Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
Benzene (EPA 8020)	M	86	39-150	2	0-25
Toluene (EPA 8020)	M	85	46-148	3	0-25
Ethylbenzene (EPA 8020)	M	87	32-160	1	0-25
Xylenes, Total (EPA 8020)	M	97	46-148	1	0-25
TPH, Recoverable (EPA 418.1)	M	99	70-125	2	0-20
Chlorobenzene (EPA 8010)	M	92	38-150	6	0-50
Cis 1,3-Dichloropropane (EPA 8010)	M	100	22-178	9	0-50
1,1,1-Trichloroethane (EPA 8010)	M	93	41-138	1	0-50

M = Matrix Spike / Spike Duplicate

L = Laboratory Control Sample Spike / Spike Duplicate

Ruth Willson
Reviewed

Approved

The samples were received by TERRA TECH LABS, Inc. in a chilled state, intact and accompanied by the Chain-of-Custody Record.
Acceptance of samples by Terra Tech Labs, Inc. is not an indication of condition upon receipt.
Laboratory Results apply only to the sample matrix analyzed and may not apply to an apparently identical or similar sample.
The Laboratory Report is the property of the client to whom it is addressed.
The Laboratory Results are only a portion of the Laboratory Report.

TERRA TECH LABS Inc.
ENVIRONMENTAL TESTING

LABORATORY RESULTS

Client: Camp, Dresser & McKee
Client Address: 18881 Von Karman Suite 650
Irvine, CA 92715

Report Date: 7/2/91
Lab P.N.: 2040
Client P.N.: 2425-110-ID

JUL 0 5 1991

Project Name: GTE Irwindale
Project Address: 5010 Azusa Canyon Road
Irwindale, CA

Date Sampled: 6/28/91
Date Analyzed: 6/28/91
Physical State: Solid

Sample ID	Benzene EPA 8020 mg/kg	Toluene EPA 8020 mg/kg	Ethylbenzene EPA 8020 mg/kg	Xylenes, Total EPA 8020 mg/kg
SS-04	ND	ND	ND	ND
SS-22	ND	ND	ND	ND
SS-24	ND	ND	ND	ND
SS-25	ND	ND	ND	ND
Detection Limit, mg/kg	0.005	0.005	0.005	0.005

ND; Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TERRA TECH LABS Inc.
ENVIRONMENTAL TESTING

LABORATORY RESULTS

Client: Camp, Dresser & McKee
Client Address: 18881 Von Karman Suite 650
Irvine, CA 92715

Report Date: 7/2/91
Lab P.N.: 2040
Client P.N.: 2425-110-ID

JUL 0 5 1991

Project Name: GTE Irwindale
Project Address: 5010 Azusa Canyon Road
Irwindale, CA

Date Sampled: 6/28/91
Date Analyzed: 6/28/91
Physical State: Solid

Sample ID	TPH, Recoverable EPA 418.1 mg/kg	Detection Limits mg/kg
SS-04	11000	20
SS-22	10	1.0
SS-24	ND	1.0
SS-25	27	1.0

ND; Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TERRA TECH LABS Inc.

ENVIRONMENTAL TESTING

LABORATORY RESULTS

Client: Camp, Dresser & McKee
Client Address: 18881 Von Karman Suite 650, Irvine, CA 92715

Report Date: 7/2/91
Lab P.N.: 2040
Client P.N.: 2425-110-ID

JUL 0 5 1991

Project Name: GTE Irwindale
Project Address: 5010 Azusa Canyon Road, Irwindale, CA

Date Sampled: 6/28/91
Date Analyzed: 6/28/91
Physical State: Solid

EPA 8010

Sample ID	SS-04	SS-22	SS-24	SS-25	
Parameters	Conc. (µg/kg)	Conc. (µg/kg)	Conc. (µg/kg)	Conc. (µg/kg)	Detection Limts (µg/kg)
Chloromethane	ND	ND	ND	ND	1.0
Vinylchloride	ND	ND	ND	ND	1.0
Trichlorofluoromethane	ND	ND	ND	ND	1.0
Bromomethane	ND	ND	ND	ND	1.0
Chloroethane	ND	ND	ND	ND	1.0
1,1-Dichloroethene	ND	ND	ND	ND	1.0
Methylene Chloride	ND	ND	ND	ND	100
Trans-1,2-Dichloroethene	ND	ND	ND	ND	1.0
1,1-Dichloroethane	ND	ND	ND	ND	1.0
Chloroform	ND	ND	ND	ND	1.0
1,1,1-Trichloroethane	ND	ND	ND	ND	1.0
Carbon Tetrachloride	ND	ND	ND	ND	1.0
1,2-Dichloroethane	ND	ND	ND	ND	1.0
Trichloroethene	ND	ND	ND	ND	1.0
1,2-Dichloropropane	ND	ND	ND	ND	1.0
Bromodichloromethane	ND	ND	ND	ND	1.0
Cis-1,3-Dichloropropene	ND	ND	ND	ND	1.0
Trans-1,3-Dichloropropene	ND	ND	ND	ND	1.0
1,1,2-Trichloroethane	ND	ND	ND	ND	1.0
Tetrachloroethene	ND	ND	ND	ND	1.0
Dibromochloromethane	ND	ND	ND	ND	1.0
Chlorobenzene	ND	ND	ND	ND	1.0
Bromoform	ND	ND	ND	ND	1.0
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	1.0
1,3-Dichlorobenzene	ND	ND	ND	ND	1.0
1,4-Dichlorobenzene	ND	ND	ND	ND	1.0
1,2-Dichlorobenzene	ND	ND	ND	ND	1.0

ND; Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

CHAIN-OF-CUSTODY RECORD

Client: CDM
Date: 6-28-91
TTL Project #: 1107 **2040**
Project Name: GTE Irwindale
Client Project #: 2425 110 ID
Page 1 of 1
Project Address: 5010 Azusa Cyn Rd. Irwindale, Ca.
Sampler's Signature: [signature]

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☒ Rush 72-96 Hours
- ☐ Mobile Lab

Lab Use Only.
Sample Condition as received:
Chilled yes / (no)
Sealed (yes) / ~~no~~

Analysis Requested

Sample ID	Sample Location	Date	Time	Laboratory Sample Number	Sample Matrix: Soil(S), Sludge(SL), Aqueous(A)	Total Petroleum Hydrocarbons as Gasoline, LUFT Manual (P&T)	TPH as Diesel Fuel, LUFT Manual	TPH as Gasoline, Extractable	TPH by EPA Method 418.1	BTEX by EPA Method 8020	8010 / 8020			Number of Containers	Container / Comments
SS-04	Soil Samples	6-28-91	0650	TD2071	S				X		X			2	Stainless sleeve
SS 22	↓	↓	↓	TD2072	S				X		X			3	↓
SS 24	↓	↓	↓	TD2073	S				X		X			3	↓
SS 25	↓	↓	↓	TD2074	S				X		X			1	↓

Please Analyze 8010 and 8020 before the 418.1

① Relinquished by: (Signature) [signature]	Date 6-28-91	② Received by: (Signature)	Date	9	Total Number of Containers
Company: CDM	Time 0650	Company:	Time		
③ Relinquished by: (Signature)	Date	④ Received by Laboratory: (Signature) Ruth Willson	Date 6-28-91		
Company:	Time	Company: TTL	Time 0650		

TERRA TECH LABS, INC.
ENVIRONMENTAL TESTING
16371 Gothard Street, Suite G
Hunitington Beach, CA 92647
Tel. (714) 842-6077

SITE ASSESSMENT AND REMEDIATION CLOSURE REPORT SAND AND GREASE INTERCEPTOR

GTE - IRWINDALE PLANT YARD
5010 NORTH AZUSA CANYON ROAD
IRWINDALE, CALIFORNIA

CRWQCB NO. AB108.0212

November 24, 1992

Prepared By:

CAMP DRESSER & McKEE INC.
18881 Von Karman, Suite 650
Irvine, CA 92715

Prepared For:

GTE OF CALIFORNIA
Environmental Compliance
P.O. Box 725
Chino, CA 91708

CDM PROJECT NUMBER: 2425-111-IR-REPT

The information contained in this report has received appropriate technical review and approval. The conclusions and recommendations presented represent professional judgements and are based upon the findings from the preliminary investigation identified in the report and the interpretation of such data based on professional experience and background. This acknowledgement is made in lieu of all warranties, either expressed or implied.

Reviewed and Approved by

Thomas E. Fantini, P.E.

California Registered Civil Engineer No. C047268

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1.0 INTRODUCTION

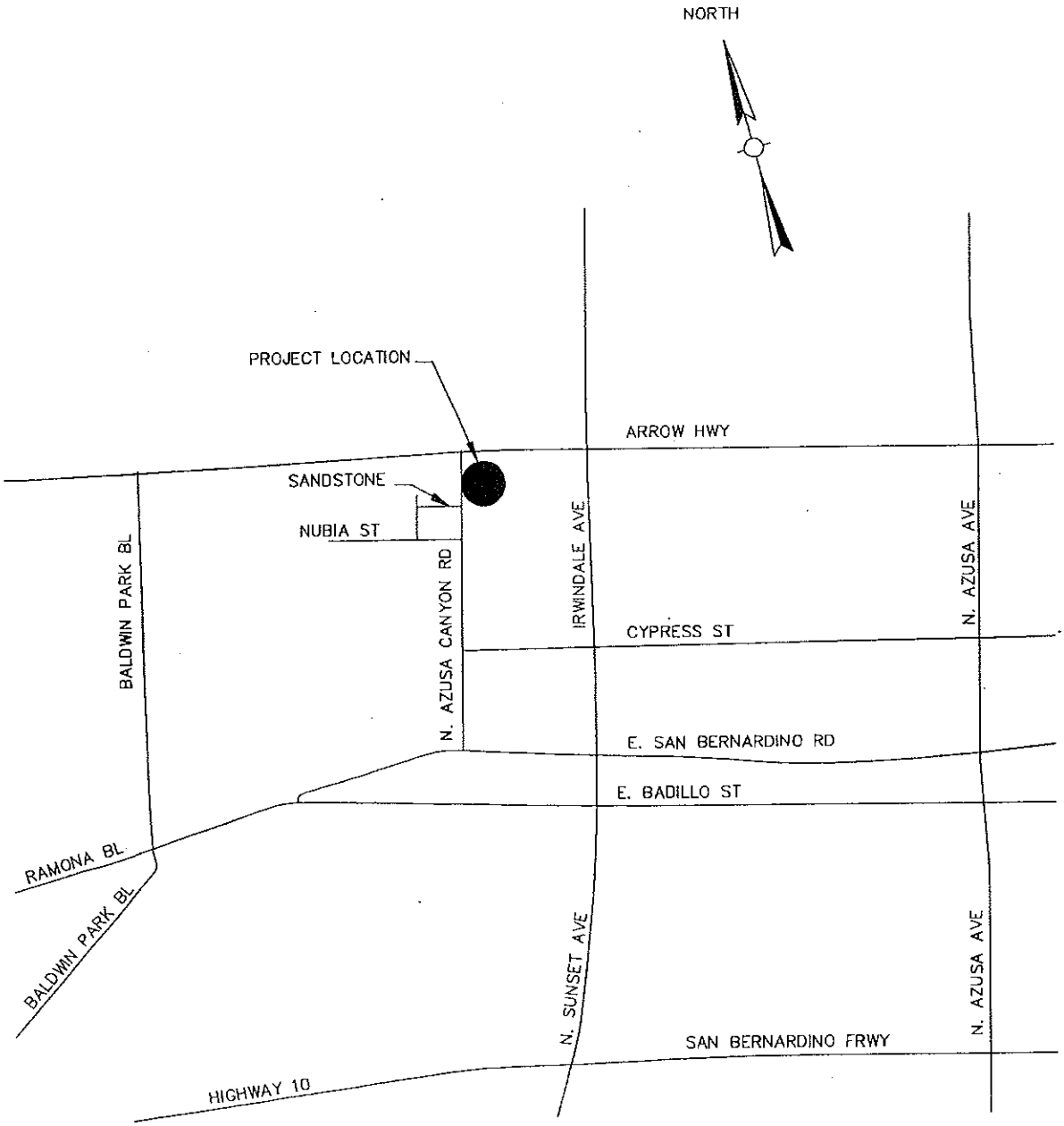
At the request of GTE of California (GTE), Camp Dresser & McKee Inc. (CDM) has prepared this closure report regarding site assessment and remediation of a sand and grease interceptor located at the GTE - Irwindale Plant Yard, 5010 North Azusa Canyon Road, in the City of Irwindale, California. Site activities were conducted in accordance with the work plan entitled, "Work Plan for the Remediation of the Clarifier Area, GTE - Irwindale Plant Yard," dated October 1991. The work plan was reviewed and conditionally approved by the California Regional Water Quality Control Board (CRWQCB) - Los Angeles Region, on January 9, 1992.

Field construction and remediation activities were performed during the period beginning August 7 through October 1, 1992. This report documents these activities, including excavation, chemical analysis, verification, and disposal of the contaminated soil. Information regarding transportation and off-site disposal of contaminated sludge encountered during field construction will be compiled in an addendum to this report pending facility acceptance.

1.1 Site Description

The GTE - Irwindale Plant Yard is located at 5010 North Azusa Canyon Road, southeast of the intersection of Arrow Highway and North Azusa Canyon Road, in the City of Irwindale, California (Figure 1). Operations conducted at the plant yard include minor maintenance of service vehicles assigned to the facility.

The sand and grease interceptor was located at the northwest corner of the plant yard, north of the vehicle wash rack (Figure 2). The sand and grease interceptor had a 1,200-gallon capacity and received wastewater discharge from a vehicle wash rack and steam cleaning area located in the immediate vicinity. The cesspool and septic tank areas were located north of the sand and grease interceptor. It had been reported that the septic system consisted of two 900-gallon concrete tanks; however, recently available site plans indicated the septic system consisted of one 900-gallon, two-stage concrete tank. Reportedly, the cesspool was brick-lined and measured 5 feet in diameter by 20 feet deep.



GTE-Irwindale Plant Yard

5010 NORTH AZUSA CANYON ROAD, IRWINDALE, CA.

VEHICLE WASH AND STEAM CLEAN FACILITY

SITE LOCATION MAP

CDM
environmental engineers, scientists, planners, & management consultants

FIGURE 1

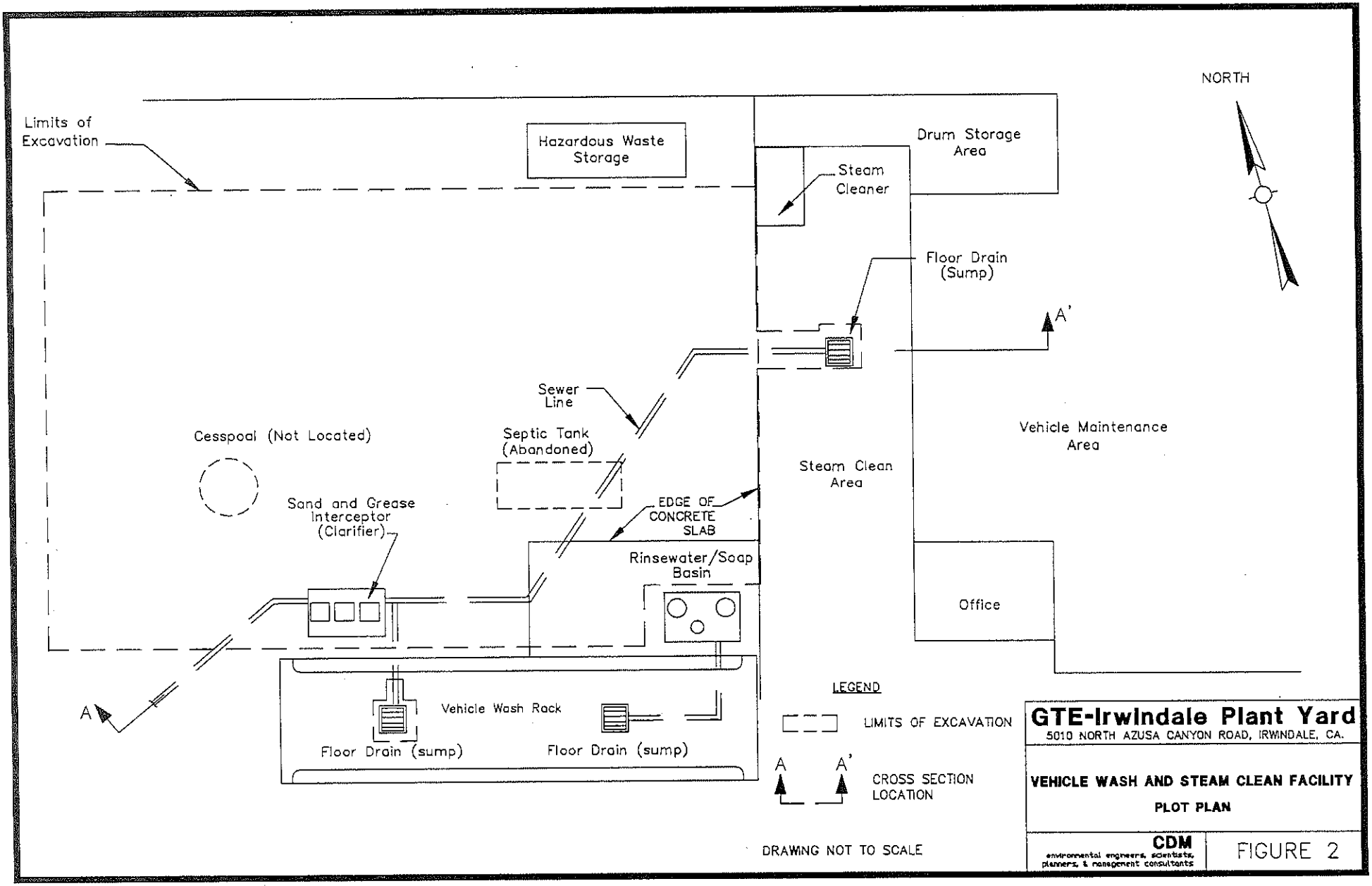

NORTH
Limits of Excavation
Hazardous Waste Storage
Drum Storage Area
Steam Cleaner
Floor Drain (Sump)
A'
Sewer Line
Cesspool (Not Located)
Septic Tank (Abandoned)
Vehicle Maintenance Area
Steam Clean Area
Sand and Grease Interceptor (Clarifier)
EDGE OF CONCRETE SLAB
Rinsewater/Soap Basin
Office
A
Vehicle Wash Rack
Floor Drain (sump)
Floor Drain (sump)
LEGEND
LIMITS OF EXCAVATION
A A'
CROSS SECTION LOCATION
DRAWING NOT TO SCALE
GTE-Irwindale Plant Yard
5010 NORTH AZUSA CANYON ROAD, IRWINDALE, CA.
VEHICLE WASH AND STEAM CLEAN FACILITY
PLOT PLAN
CDM
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FIGURE 2

1.2 Site Background

On March 7, 1991, a visual inspection of the sand and grease interceptor and related sumps was performed by the CRWQCB. The findings of this inspection were formalized in a letter addressed to GTE, dated March 13, 1991 (Appendix A). The inspection concluded that the steam cleaning and rinsewater/soap solution sumps appeared intact; however, degradation of the concrete within the sump at the west end of the vehicle wash rack, and the grout between the sand and grease interceptor lid and concrete riser block, were noted.

In response to a letter from the CRWQCB, dated March 13, 1991, CDM performed a preliminary site assessment, consisting of a soil gas survey and soil sampling program, of the vehicle wash rack and steam clean areas. A total of 22 soil gas samples were collected at discrete locations within the vicinity of the vehicle wash rack, steam clean area and clarifier (sand and grease interceptor). In addition, four soil samples were collected for confirmation laboratory analysis. The findings of the investigation documented elevated concentrations of total recoverable petroleum hydrocarbons (TRPH) and volatile organic compounds (VOCs) near the discharge of the sand and grease interceptor. The results of this investigation were compiled in a report entitled, "Soil Gas Survey of the GTE Irwindale Facility", (Hydro Geo Chem, July 1991) and submitted to the CRWQCB on August 13, 1991.

On September 10, 1991, the CRWQCB formalized their general approval of excavation of petroleum contaminated soil around the sand and grease interceptor with the condition that a remedial action work plan, inclusive of additional soil sampling of the former septic tank and cesspool area(s) be submitted. A formal work plan was prepared entitled, "Work Plan for the Remediation of the Clarifier Area, GTE - Irwindale Plant Yard," (CDM, October 1991) and submitted to the CRWQCB on November 18, 1991. The work plan was reviewed and conditionally approved by the CRWQCB on January 9, 1992 (Appendix A).

1.3 Geologic/Hydrogeologic Conditions

The regional and local hydrogeologic conditions relative to the GTE -Irwindale Plant Yard were

compiled from: Appendix A of the California Department of Water Resources Bulletin Number 104-2, entitled "Planned Utilization of Ground Water Basins - San Gabriel Valley," dated March 1966; and from a site investigation report prepared by Jetco Environmental & Associates, Inc, entitled "Site Investigation - GTE Irwindale Facility", dated November 14, 1990.

1.3.1 Regional Conditions

The GTE - Irwindale Plant Yard is located in the San Gabriel Valley in the eastern portion of Los Angeles County. The portion of the San Gabriel Valley that contains the principal groundwater-bearing deposits underlying the valley floor is called the San Gabriel Valley Groundwater Basin. The San Gabriel Valley Groundwater Basin is a subsurface reservoir and a structural basin of permeable alluvial deposits, underlain and surrounded by relatively impermeable rock. Alluvial deposits that fill the valley are mainly Quaternary in age.

The boundaries of the San Gabriel Valley Groundwater Basin are: the Raymond Fault to the northwest; the line of contact between alluvium and bedrock of the San Gabriel Mountains to the north; the bedrock high between San Dimas and La Verne to the east; and the line of contact between alluvium and bedrock of the low hills along the southern periphery of the basin.

Unconsolidated and semi-consolidated nonmarine sediments of Recent and Pleistocene age are the principal water-bearing formations underlying the subject property. Of lesser importance are marine sediments of probable Pleistocene age, and marine sediments of late Pliocene age. Sediments comprising the water-bearing formations in the San Gabriel Valley are derived primarily from the San Gabriel Mountains. The formations extend to a maximum depth of over 4,000 feet. The thickness of alluvial deposits resulted from sedimentation combined with uplift in the mountains and subsidence in the valley.

Water-bearing sediments forming this groundwater basin vary in size depending on proximity to the sediment source area. In general, these sediments grade from coarse gravel and boulders, close to the mountain front, to fine- and medium-grained sand containing a larger amount of silt and clay, as the distance from the source area increases.

Groundwater in the San Gabriel Valley generally moves from the perimeter of the valley toward the Whittier Narrows. Therefore, the direction of regional groundwater flow near the site is to the west/southwest.

1.3.2 Local Conditions

Sediments underlying the GTE - Irwindale Plant Yard site are alluvial deposits designated as the San Gabriel River Fan deposits. The Alluvium (Qal) consists of partially stratified sand, cobbles, and boulders. The material is unconsolidated and dense, and the sand is light gray to buff in color and fine- to medium-grained. The cobbles and boulders range up to approximately 2 feet in diameter. Overlying the alluvium is a relatively thin layer of artificial fill. The artificial fill consists of a silty fine-grained sand, averaging approximately 2 to 3 feet in thickness across the site.

According to report performed of the GTE - Irwindale Plant Yard (JETCO, December, 1991), groundwater was not encountered during trenching activities performed to a depth of 10 feet below ground surface (bgs). The report indicated that local wells drilled near the site encountered groundwater at approximately 230 feet bgs. Excavation activities performed during this program did not encounter groundwater.

2.0 PURPOSE AND SCOPE OF WORK

The purpose of this program was to remediate petroleum contaminated soil around the sand and grease interceptor and perform additional soil sampling of the septic tank and cesspool areas. Field construction activities included: removal of the existing sand and grease interceptor, excavation and off-site disposal of contaminated soil and other waste, and installation of a new sand and grease interceptor equipped with a geomembrane secondary containment system.

Specifically, the scope of work for the field activities consisted of the following major tasks:

- Chemical analysis of the liquid within the existing sand and grease interceptor. Off-site transportation and disposal of approximately 2,000 gallons of same.
- Removal of the 1,200-gallon, two-stage sand and grease interceptor.

- Excavation of overburden and contaminated soil around the sand and grease interceptor.

- Compliance monitoring of the soil excavation activities for VOC emissions, in accordance with South Coast Air Quality Management District (SCAQMD) Rule 1166 requirements.

- Field screening of the excavated soil for VOCs and TRPH concentrations using a portable flame-ionization detector (FID) and infrared spectrometer (IR).

- Collection of soil samples from the sand and grease interceptor excavation under the direction of the CRWQCB and chemical analysis for total halogenated volatile organic compounds (HVOCs), aromatic volatile organic compounds (AVOCs), and total recoverable petroleum hydrocarbons (TRPH) by California Department of Health Services (CA DHS) certified laboratory.

- Installation of one 1,200-gallon, three-stage, concrete sand and grease interceptor, equipped with a geomembrane secondary containment system, and upstream and downstream sample collection boxes. Application of an epoxy coating to the interior surfaces of the sand and grease interceptor.

- Collection of soil samples from the septic tank and cesspool areas under the direction of the CRWQCB. Chemical analysis for HVOCs, AVOCs, and TRPH by a CA DHS certified laboratory.

- Removal and replacement of two damaged floor drains (sumps) - one in the steam clean area and one in the vehicle wash rack. Removal and replacement of the related sewer lines leading to the sand and grease interceptor.

- Pre-disposal analysis of the stockpiled contaminated soil and other waste material generated from the remediation activities.

- Off-site transportation and disposal of contaminated soil, and other waste material generated from the remediation activities.

- Importation of fill material, excavation backfilling and resurfacing activities.

3.0 FIELD ACTIVITIES

Field activities were performed during the period beginning August 7 through October 1, 1992. The remediation of the contaminated soil was performed in accordance with the approved work plan and CRWQCB requirements. The installation of the sand and grease interceptor was performed in accordance with the approved construction plans and Los Angeles County Department of Public

Works (LACDPW) requirements. All tasks were conducted by CDM personnel or a designated subcontractor. Photographs of selected field construction activities are contained in Appendix B.

3.1 Geophysical Survey

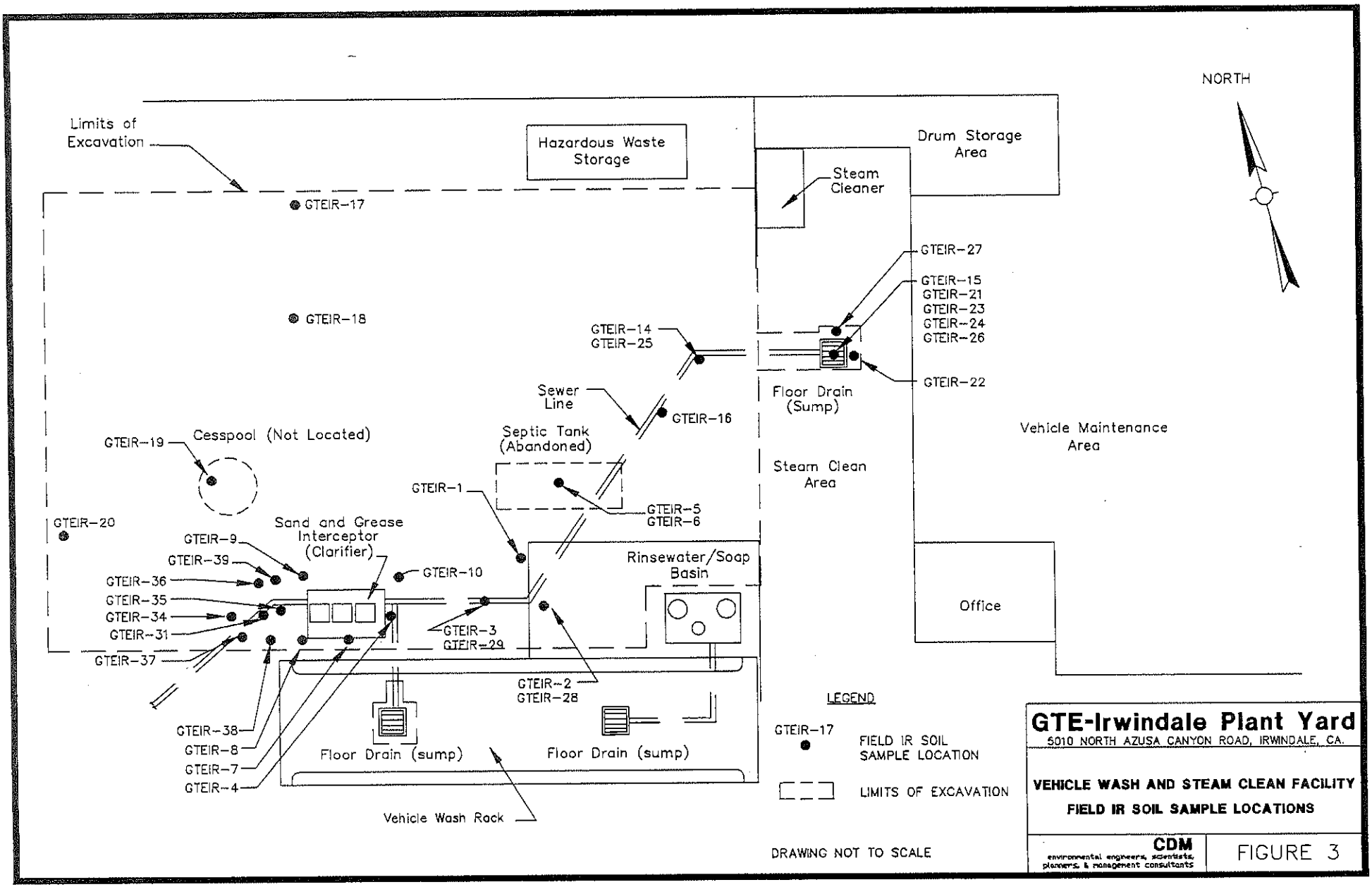
A geophysical survey was conducted during previous site activities by Spectrum E.S.I. (subcontractor) of San Fernando, California. The purpose of the survey was to locate any underground utilities, associated water and electrical lines, or other possible subsurface interferences within the area of proposed excavation.

3.2 Soil Remediation

Remediation of the petroleum contaminated soil was performed during the period beginning August 20 through 31, 1992, following the removal of the asphalt paving overlaying the area. Field construction was performed by MJK Construction, Inc. (subcontractor) of Compton, California. Environmental oversight was performed by CDM.

Soil excavation was performed in vertical lifts two feet or less in thickness. Soil samples were collected at discrete locations at the top of each lift using a trowel or a hand auger for field screening analyses (Figure 3). Headspace analysis for VOC emissions was performed on selected soil samples using a Foxboro™ Model 128 Organic Vapor Analyzer (OVA), equipped with a flame ionization detector. The OVA was calibrated to 50 parts per million (ppm) of hexane gas on a daily basis prior to first use. A total of 20 soil samples were screened by this method. VOC concentrations ranged from 0 ppm to a maximum of 70 ppm. VOC emissions were also monitored during the soil excavation in compliance with SCAQMD's Rule 1166. Measured VOC concentrations did not exceed 50 ppm.

Field screening for TRPH concentrations (modified EPA Method 418.1) was performed on selected soil samples using a Miran™ 1FF Infrared (IR) Spectrometer. A total of 42 soil samples were screened by this method. TRPH concentrations ranged from non-detected concentrations to a maximum of 425 milligrams per kilogram (mg/kg).



GTE-Irwindale Plant Yard

5010 NORTH AZUSA CANYON ROAD, IRWINDALE, CA.

VEHICLE WASH AND STEAM CLEAN FACILITY

FIELD IR SOIL SAMPLE LOCATIONS

CDM
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FIGURE 3

In general terms, contaminated soil excavation activities continued until the VOC headspace analysis indicated concentrations at, or below, background levels and TRPH field analysis indicated concentrations below 100 mg/kg. The contaminated soil was stockpiled on plastic sheeting and covered at the end of each day pending further chemical analysis.

3.2.1 Sand and Grease Interceptor

The final excavation limits of the sand and grease interceptor measured 8 feet in width, by 14 feet in length, by 6.5 feet in depth. The sand and grease interceptor was removed under a permit issued by LACDPW (Appendix D). A total of 5 soil samples (GTEIR-7, GTEIR-8, GTEIR-9, AND GTEIR-10) were collected from the excavation and screened in the field for TRPH concentrations. The results indicated non-detectable TRPH concentrations in all five samples. A summary of the these results is contained in Table 1.

A total of two confirmatory soil samples (GTEIR-11 and GTEIR-12) were also collected under the direction of the CRWQCB. The soil samples were analyzed by an off-site laboratory for HVOCs (EPA Method 8010), AVOCs (EPA Method 8020), and TRPH (EPA Method 418.1). The analytical results indicated that non-detectable concentrations of halogenated and aromatic volatile organic compounds in both samples. The analytical results for GTEIR-12 indicated a TRPH concentration of 20 mg/kg, which is below the regulatory guideline of 100 mg/kg. GTEIR-11 was not analyzed for TRPH. A summary of the these results is contained in Table 1. Figure 4 shows the locations of the confirmatory soil samples, and Figure 5 is a cross-section showing the locations of the soil samples.

3.2.2 Sand and Grease Interceptor Discharge Area

As indicated by the soil gas survey, petroleum contamination was documented near the discharge (west end) of the sand and grease interceptor. Excavation of the contaminated soil in this area was performed. The limits of the excavation measured 9.5 feet in width by 10 feet in length by 9 feet in depth.

TABLE 1

GTE - IRWINDALE

Irwindale, California

Field Screening and Laboratory Data

Sample ID	Sample Depth (ft.)	Sample Location	Sample Date	FIELD RESULTS		LABORATORY RESULTS		
				Headspace	EPA 418.1	EPA 418.1	EPA 8020	EPA 8010
				FID	TRPH	TRPH	BTEX	HVOC
				(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
GTEIR-1	2.5	Sump Pipe	8/20/92	---	119	---	---	---
GTEIR-2	2.5	Sump Pipe	8/20/92	---	108	---	---	---
GTEIR-3	2.5	Sump Pipe	8/20/92	---	425	570	---	---
GTEIR-4	2.5	Sump Pipe	8/20/92	---	76	---	---	---
GTEIR-5	5.0	Septic Tank	8/20/92	---	19	---	ND<0.005	ND<1.0
GTEIR-6A	10.0	Septic Tank	8/20/92	---	19	---	---	---
GTEIR-6B	10.0	Septic Tank	8/20/92	---	298	ND<1.0	ND<0.005	ND<1.0§
GTEIR-7	4.5	Clarifier Excavation	8/20/92	---	ND<2	---	---	---
GTEIR-8	3.0	Clarifier Excavation	8/20/92	---	ND<2	---	---	---
GTEIR-9	4.0	Clarifier Excavation	8/20/92	---	ND<2	---	---	---
GTEIR-10	5.0	Clarifier Excavation	8/20/92	---	ND<2	---	---	---
GTEIR-11	11.0	Clarifier Excavation	8/21/92	---	---	---	ND<0.005	ND<1.0
GTEIR-12	12.0	Clarifier Excavation	8/21/92	---	---	20	ND<0.005	ND<1.0
GTEIR-13	6.0	Clarifier Excavation	8/24/92	0	ND<2	---	---	---
GTEIR-14	2.0	Sump Pipe	8/25/92	---	54	---	---	---
GTEIR-15	3.0	Steam Clean Excavatio	8/25/92	1.8	55	---	---	---
GTEIR-16	2.0	Sump Pipe	8/25/92	0	57	---	---	---
GTEIR-17	6.0	Pot Hole Excavation	8/25/92	0	ND<2	---	---	---

Notes:

FID = Portable Flame Ionization Detector

ND = Not Detected, --- = Not Analyzed

TRPH = Total Recoverable Petroleum Hydrocarbons

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes

HVOC = Halogenated Volatile Organic Compounds

§ 1,4-Dichlorobenzene detected at 24 mg/kg; chloromethane detected at 11 mg/kg; all other HVOCs were ND.

TABLE 1 (Cont.)

GTE - IRWINDALE

Irwindale, California

Field Screening and Laboratory Data

Sample ID	Sample Depth (ft.)	Sample Location	Sample Date	FIELD RESULTS		LABORATORY RESULTS		
				Headspace	EPA 418.1	EPA 418.1	EPA 8020	EPA 8010
				FID	TRPH	TRPH	BTEX	HVOC
				(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
GTEIR-18	6.0	Pot Hole Excavation	8/25/92	0	19.0	---	---	---
GTEIR-19	6.0	Cesspool Excavation	8/25/92	0	20	---	---	---
GTEIR-20	0.5	Surface Sample	8/25/92	0	19	---	---	---
GTEIR-21	4.0	Steam Clean Excavatio	8/26/92	0.6	226	---	---	---
GTEIR-22	6.0	Steam Clean Excavatio	8/26/92	0.4	19	---	---	---
GTEIR-23	6.0	Steam Clean Excavatio	8/26/92	0.6	ND<2	---	---	---
GTEIR-24	7.5	Steam Clean Excavatio	8/26/92	0	29	---	---	---
GTEIR-25	4.0	Sump Pipe	8/26/92	---	26.0	---	---	---
GTEIR-26	7.0	Steam Clean Excavatio	8/26/92	---	ND<2	ND<5.0	ND<0.005	ND<1.0
GTEIR-27	6.0	Steam Clean Excavatio	8/26/92	---	ND<2	---	---	---
GTEIR-28	6.0	Sump Pipe	8/26/92	---	ND<2	---	---	---
GTEIR-29	3.0	Sump Pipe	8/27/92	14	ND<2	ND<5.0	ND<0.005	ND<1.0
GTEIR-30	3.0	TRPH Excavation	8/27/92	70	ND<2	---	---	---
GTEIR-31	9.0	TRPH Excavation	8/27/92	0	38	---	---	---
GTEIR-32	7.0	TRPH Excavation	8/27/92	0	ND<2	---	---	---
GTEIR-33	8.0	TRPH Excavation	8/27/92	0	17	---	---	---
GTEIR-34	8.0	TRPH Excavation	8/27/92	0	ND<2	---	---	---
GTEIR-35	9.0	TRPH Excavation	8/27/92	0	10	---	---	---
GTEIR-36	8.0	TRPH Excavation	8/27/92	---	57	---	---	---

Notes:

FID = Portable Flame Ionization Detector

ND = Not Detected, --- = Not Analyzed

TRPH = Total Recoverable Petroleum Hydrocarbons

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes

HVOC = Halogenated Volatile Organic Compounds

TABLE 1 (Cont.)

GTE - IRWINDALE

Irwindale, California

Field Screening and Laboratory Data

Sample ID	Sample Depth (ft.)	Sample Location	Sample Date	FIELD RESULTS		LABORATORY RESULTS		
				Headspace	EPA 418.1	EPA 418.1	EPA 8020	EPA 8010
				FID	TRPH	TRPH	BTEX	HVOC
				(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
GTEIR-37	9.0	TRPH Excavation	8/27/92	---	---	ND<5.0	ND<0.005	ND<1.0
GTEIR-38	8.0	TRPH Excavation	8/27/92	---	---	ND<5.0	ND<0.005	ND<1.0
GTEIR-39	8.0	TRPH Excavation	8/27/92	---	---	27	ND<0.005	ND<1.0
Stockpile 1	---	Clarifier Stockpile	8/21/92	0	74	---	---	---
Stockpile 2	---	Clarifier Stockpile	8/21/92	0	162	102	ND<0.005	ND<1.0
Stockpile 3	---	Clarifier Stockpile	8/21/92	---	75	---	---	---
Stockpile 4	---	Clarifier Stockpile	8/21/92	---	154.0	---	---	---
Stockpile 5	---	Clarifier Stockpile	8/24/92	---	ND<2	---	---	---
Stockpile 6	---	Cesspool Excavation	8/24/92	---	ND<2	---	---	---
Stockpile 7	---	Steam Clean Stock.	8/25/92	---	102	---	---	---
Stockpile 8	---	Steam Clean Stock.	8/25/92	---	118	---	---	---

Notes:

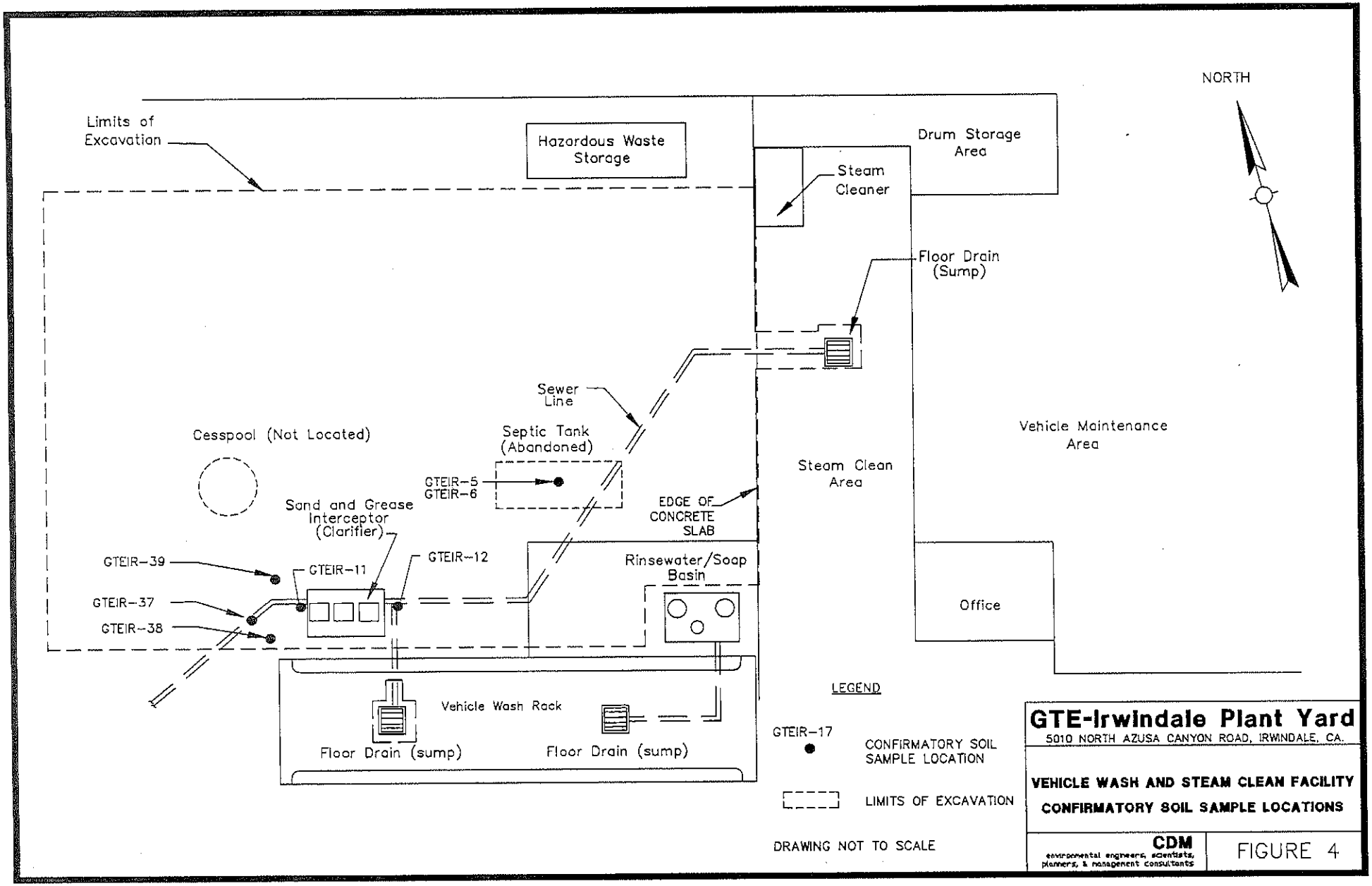
FID = Portable Flame Ionization Detector

ND = Not Detected, --- = Not Analyzed

TRPH = Total Recoverable Petroleum Hydrocarbons

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes

HVOC = Halogenated Volatile Organic Compounds



GTE-Irwindale Plant Yard

5010 NORTH AZUSA CANYON ROAD, IRWINDALE, CA.

VEHICLE WASH AND STEAM CLEAN FACILITY

CONFIRMATORY SOIL SAMPLE LOCATIONS

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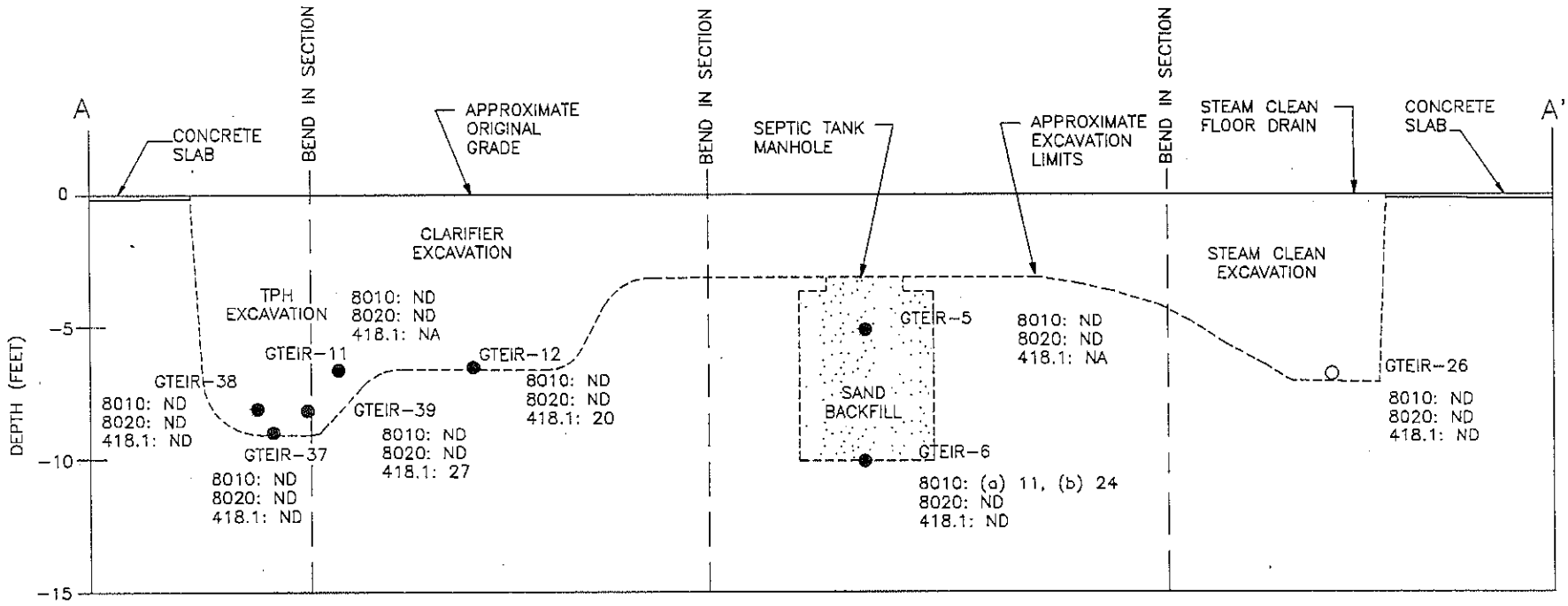
FIGURE 4



NO HORIZONTAL SCALE

NOTES:

(a) Chloromethane

(b) 1,4-Dichlorobenzene

ND Not detected

NA Not analyzed

GTEIR-26 ○
8010: ppm
8020: ppm
418.1: mg/kg

GTEIR-5 ●
8010: ppm
8020: ppm
418.1: mg/kg

LEGEND

FIELD IR SOIL SAMPLE LOCATION. (TEST METHOD : CONCENTRATION)

CONFIRMATORY SOIL SAMPLE LOCATION. (TEST METHOD : CONCENTRATION)

GTE-Irwindale Plant Yard

5010 NORTH AZUSA CANYON ROAD, IRWINDALE, CA.

VEHICLE WASH AND STEAM CLEAN FACILITY

CROSS SECTION A-A'

CDM
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FIGURE 5

A total of six soil samples (GTEIR-31, GTEIR-32, GTEIR-33, GTEIR-34, GTEIR-35, and GTEIR-36) were collected from the excavation and screened in the field for TRPH concentrations. The results indicated the maximum TRPH concentration was 57 mg/kg - below the regulatory guideline of 100 mg/kg. A summary of the these results is contained in Table 1.

A total of three confirmatory soil samples (GTEIR-37, GTEIR-38, and GTEIR-39) were collected and analyzed by an off-site laboratory for HVOCs (EPA Method 8010), AVOCs (EPA method 8020), and TRPH (EPA Method 418.1). Analytical results indicated that no HVOCs or AVOCs were detected in any of the three samples. The maximum TRPH concentration was detected in GTEIR-39 at a concentration of 27 mg/kg - below the regulatory guideline. A summary of the these results is contained in Table 1. Figure 4 shows the locations of the confirmatory soil samples, and Figure 5 is a cross-section showing the locations of the soil samples.

3.2.3 Septic Tank and Cesspool Areas

An investigation of the septic tank revealed the tank to be backfilled with sand. A total of two soil samples (GTEIR-5 and GTEIR-6) were collected at depths of 6 feet and 10 feet and screened in the field for TRPH concentrations. The results indicated TRPH concentrations of 19 mg/kg and 300 mg/kg, respectively. A summary of the these results is contained in Table 1.

GTEIR-5 and GTEIR-6 were also analyzed by an off-site laboratory for HVOCs (EPA Method 8010), AVOCs (EPA method 8020) and TRPH (EPA Method 418.1). GTEIR-6 contained minor concentrations of chloromethane at 11 mg/kg, and 1,4-dichlorobenzene at 24 mg/kg. All other constituents analyzed were non-detectable. A summary of the these results is contained in Table 1. Figure 4 shows the locations of the soil samples, and Figure 5 is a cross-section showing the locations of the soil samples.

An investigation of the cesspool was unsuccessful, in that an intact cesspool structure was not located. An approximate 2,850 square-foot area surrounding the reported cesspool location was investigated with test-pits to an average depth of eight feet bgs (Figure 3). If undisturbed native soil (alluvium) was encountered, investigation of that particular area was stopped. In the reported area of the cesspool, brick and concrete fragments (up to four feet in length) were encountered extending to

a depth of approximately five feet bgs. Continued excavation in this area did not reveal the cesspool structure.

Based on the analytical data collected from the septic tank and the extensive search performed to locate the cesspool, the CRWQCB did not require additional investigation of these areas.

3.2.4 Sewer Line Piping

Approximately 65 feet of 6-inch cast iron pipe leading from steam clean area to the sand and grease interceptor was removed due to the deteriorated (corroded) condition of the pipe. In addition, approximately 55 gallons of sludge was extracted from within the piping and transferred into a 55-gallon drum. The sewer line pipe trench measured 3.5 feet in width by 3 feet in depth at the sand and grease interceptor, increasing to 7 feet bgs at the steam clean floor drain. No visible staining or discoloration of the surrounding soil was observed.

A total of three soil samples (GTEIR-2, GTEIR-3, and GTEIR-21) were collected at the pipe joints and other selected locations and screened in the field for TRPH and VOC concentrations. The results indicated non-detectable concentrations of VOCs. TRPH concentrations ranged from a minimum of 108 mg/kg to a maximum of 425 mg/kg. Contaminated soil excavation continued until TRPH concentrations of less than 100 mg/kg were encountered.

3.3 Installation of Sand and Grease Interceptor and Floor Drains

Installation of the sand and grease interceptor and both floor drains was performed during the period beginning August 31 through September 22, 1992. As installed, the new sand and grease interceptor is plumbed to receive wastewater discharge from the steam clean facility and the vehicle wash rack. Installation of the sand and grease interceptor was performed in accordance with the LACDPW Sanitation District and the LACDPW Industrial Waste Division requirements.

The former two-stage, sand and grease interceptor was replaced with a 1,200 gallon three-stage sand and grease interceptor (Nottingham™, Model PC-1200). A two-stage epoxy coating was applied to the interior surfaces of the sand and grease interceptor. The epoxy coating consisted of a concrete

4.2 Equipment Decontamination

To minimize the potential of cross-contamination, all sampling equipment was decontaminated between each sampling event. The equipment was placed in soapy water (Alconox or equal laboratory grade detergent) and thoroughly cleaned with a stiff brush. The equipment was then rinsed with deionized water.

4.3 Laboratory QA/QC

Chemical analyses were performed by Terra Tech Laboratories, Inc. (Terra Tech) of Santa Ana, California. Terra Tech is a CA DHS certified analytical laboratory with approved internal QA/QC procedures. Key laboratory QC elements typically include: calibration check samples, matrix-spiked samples, duplicates, replicates and other indicators. Laboratory QA/QC functions were performed by Terra Tech staff.

5.0 HAZARDOUS WASTE DISPOSITION

5.1 Waste Characterization

5.1.1 Soil

On August 21, 1992, one soil sample (GTEIR-Predisposal) was collected from the contaminated soil stockpile for pre-disposal waste characterization analyses by Terra Tech. The sample was analyzed for: flash point, pH, total recoverable petroleum hydrocarbons, cyanides, phenols, sulfides, water content, solid content, halogenated volatile organics, aromatic volatile organics, polychlorinated biphenyls, TCLP metals, fluoride, and ammonia. A copy of the laboratory analytical report is contained in Appendix C.

5.1.2 Sludge / Cast Iron Piping

On August 31, 1992, one sample (SL-1) was collected from the sludge contained in the cast-iron piping for pre-disposal waste characterization analyses by Terra Tech. The sample was analyzed for the same constituents listed in Section 5.1.1. A copy of the laboratory analytical report is also contained in Appendix C.

5.2 Hazardous Waste Disposal

5.2.1 Soil

A total of 46.84 tons of stockpiled soil were transported to Laidlaw Environmental Services' (Laidlaw's) Class I (Imperial valley) facility located at 5295 South Garvey Avenue in the City of Westmorland, California. The soil was transported to Laidlaw's facility on September 15, 1992, as hazardous waste. Appendix E contains the hazardous waste data forms and corresponding weight tickets for soil removed from the site.

5.2.2 Sludge / Cast Iron Piping

One 55-gallon drum of sludge and three 55-gallon drums containing the 6-inch cast iron piping was generated during remediation activities of the sewer line. Based on the pre-disposal analytical results, the pipe sludge was classified as hazardous. As of this writing, transportation and disposal of the pipe sludge is pending upon acceptance at the disposal facility. An addendum to this report will be submitted following disposal of these hazardous materials.

6.0 SUMMARY AND RECOMMENDATIONS

Remediation of the contaminated soil identified during site assessment activities, has been completed at the GTE - Irwindale Plant Yard, located at 5010 North Azusa Canyon Road, Irwindale, California.

The former two-stage sand and grease interceptor was removed and replaced with a 1200 gallon three-stage in accordance with the regulatory requirements, plans and specifications. In-line

discharge monitoring boxes were installed to allow monitoring of the separate wastestreams from the vehicle wash rack and steam clean facility.

Excavation and off-site disposal of the 47 tons of contaminated soil was performed in accordance with the work plan approved by the CRWQCB. Confirmation soil sample locations were specified by the on-site CRWQCB inspector and submitted to a CA DHS certified laboratory for chemical analyses. The soil samples were analyzed for halogenated volatile organics (EPA Method 8010), aromatic volatile organics (EPA Method 8020), and total recoverable petroleum hydrocarbons (EPA method 418.1). Second column confirmation was performed on samples with detectable contaminant concentrations. Results of the laboratory analyses collected from the confirmation soil sampling program, indicated that no petroleum hydrocarbon constituents were detected at concentrations above the regulatory guideline of 100 mg/kg.

Based on the information and data presented in this report, CDM requests that the CRWQCB approve closure of the subject sand and grease interceptor area at the GTE - Irwindale Plant Yard.

7.0 REFERENCES

Camp Dresser & McKee Inc, "Soil Gas Study Report, GTE Irwindale Site", Irwindale, California, August 1991.

Camp Dresser & McKee Inc, "Work Plan for the Remediation of the Sand and Grease Interceptor Area at the GTE Irwindale Facility", Irwindale, California, October 1991.

Department of Water Resources, "Planned Utilization of Ground Water Basins, San Gabriel Valley", Bulletin 104-2, Appendix A, Geohydrology, March 1966.

Hydro Geo Chem, Inc., "Soil Gas Survey of GTE Facility, Irwindale, California", July 2, 1991.

Jetco Environmental & Associates Inc., "Site Investigation - GTE Irwindale Facility," November 14, 1990.

APPENDIX A

Regulatory Correspondence

M-1C-

STATE OF CALIFORNIA — PETE WILSON, Governor

JAN 15 1992

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
LOS ANGELES REGION

101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500

January 9, 1992

Ms. Jackie D. McCormick
GTE California Inc.
P.O. Box 725
Chino, CA 91708

WORK PLAN FOR REMEDIATION OF CLARIFIER AREA (FILE NO. AB108.0212)
GTE California Plant at 5010 North Azusa Canyon Rd., Irwindale, CA

We have evaluated the November 18, 1991 work plan, prepared by Camp Dresser & McKee Inc., for removing the clarifier which services the truck wash bay and excavating contaminated soils surrounding the clarifier.

The work plan may be implemented subject to the following comments:

1. Your proposed cleanup goal for Total Petroleum Hydrocarbons (TPH) is not acceptable. TPH cleanup level may not exceed 100 mg/kg.

2. Additionally, the soil cleanup goal for volatile organic compounds (VOC) must be based on ten times the Maximum Contaminant Level and Applied Action Level for specific VOCs in drinking water with total VOCs not exceeding 300 µg/kg.

Please notify us ten days prior to initiating the work plan so a representative may be on-site and may request split soil samples. **Three** copies of the subsurface investigation report must be submitted to this Regional Board by **February 27, 1992.**

Please call Alex P. Carlos at (213) 266-7545 if you have any questions.

ROY R. SAKAIDA
Senior Water Resource
Control Engineer

cc: Mr. Wayne Praskins, U.S. EPA - Region IX
Mr. William Jones, L.A. County Fire Department, Hazardous Materials Control Program
Mr. Paul Martyn, L. A. County Sanitation Districts, Industrial Waste Section
Mr. Michael Kammerzelt, Camp Dresser & McKee, Inc. (Irvine, CA)

STATE OF CALIFORNIA

PETE WILSON, Gove

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
LOS ANGELES REGION
101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500

March 13, 1991

Ms. Jackie D. McCormick
GTE California Inc.
P.O. Box 725
Chino, CA 91708

CLARIFIER INSPECTION (FILE NO. AB108.0212)
GTE California Plant at 5010 North Azusa Canyon Rd., Irwindale, CA

This is in reference to the March 7, 1991 visual inspection of the clarifier and sumps conducted by Board staff after these containments were pumped out and cleaned.

The steam cleaning and rinsewater/soap solution sumps appeared intact. Staff observed degraded concrete around the sump inlet at the west end of the truck wash bay. Also, the grout in the seam between the top of the clarifier and the concrete blocks built above it was eroded. Clarifier materials may migrate through this seam and impact the soil and potentially the ground water. Analytical results of clarifier waste water indicated the presence of 3,000 µg/l of 1,1,1 trichloroethane (TCA).

Note that clarifiers, operating or abandoned have been shown to be a source of soil contamination, which may be a threat to ground water.

You indicated on your December 17, 1990 letter that waste water from the former truck wash and steam cleaning bays and boiler room was diverted to the septic tank and cesspools prior to connection to the sewer system.

Based on the above observations and information, you are directed to submit four (4) copies of a work plan for assessing the clarifier, current steam cleaning and truck wash bays and former truck wash/steam cleaning bays, cesspools and septic tanks that serviced the vehicle maintenance building. We request that you conduct an active soil gas survey to field screen these areas and determine if soils beneath your the site have been impacted by septic tank/cesspool discharges and potential discharge from the current clarifier/sump system. The plan must address all of the items outlined on the enclosed WORK PLAN REQUIREMENTS FOR INITIAL SUBSURFACE INVESTIGATION with the following changes:

I. Soil Gas Survey

Design a sensitive and quantitative active soil gas survey to screen the areas of concern for volatile organic compounds (VOC). The following are minimum requirements for the survey:

1. Locate sample nodes using 20-30 foot grids. Close-interval (10'-20') multi-depth sampling must be established in areas where elevated levels of VOCs are detected in the coarse survey. Provide a map of proposed sample nodes.

2. Obtain soil gas samples at an adequate depth below the ground surface to minimize any atmospheric effects.

3. Perform "real time" analysis of individual organic compounds with an on-site field laboratory using a gas chromatograph equipped with PID, ECD and/or Hall detectors.

4. Specify detection limits for soil gas analysis. Detection limits of 0.01 µg/l (soil gas) is generally required.

5. Discuss soil gas sample collection and analysis procedures. Provide quality assurance and quality control procedures, including chain of custody protocols.

6. Obtain discrete, undisturbed confirmatory soil samples, if possible, at soil gas "high" and "low" points. Note that the presence of cobbles in the subsurface may require multiple attempts to drill and obtain driven samples. The work plan should include alternative strategies to obtain discrete undisturbed samples.

7. Analyze all soil samples for volatile organic compounds (VOCs) in accordance with EPA Method(s) 8260 or 8010/8020 and for total petroleum hydrocarbons (TPH) using EPA Method 418.1. EPA practical quantitation limits of 5-10 µg/kg for VOCs and 1 mg/kg for TPH must be achieved by the laboratory.

8. Board staff wishes to be part of the data review conducted after the survey to determine the need for additional soil gas nodes and/or confirmatory soil sample borings.

II. <u>Housekeeping Plan</u>

Submit to this Board four (4) copies of a plan to:

1. Regrout the eroded seal between the top part of the clarifier and concrete blocks built above the clarifier in order to prevent potential discharges from migrating to the soils through this pathway.

2. Regrout eroded concrete around the sump inlet located at the west end of the truck wash bay.

3. Eliminate the discharge of TCA to the sump/clarifier system. Account for the TCA found in the clarifier waste water.

III. Schedule

Four copies of the subsurface investigation work plan and housekeeping plan must be submitted to this Regional Board by April 22, 1991. Please remember that neither plans should be implemented until they have been reviewed and approved by Board staff.

Please call Alex P. Carlos at (213) 266-7545 if you have any questions.

ROY R. SAKAIDA
Senior Water Resource
Control Engineer

RRS:apc

Enclosure

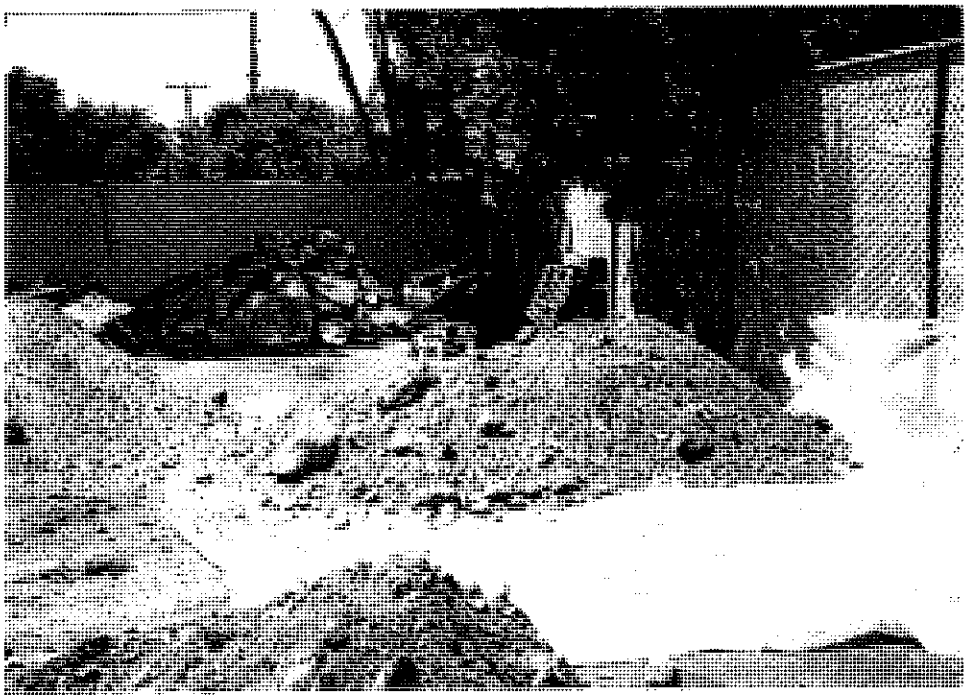
cc: Mr. Joe Viray, U.S. EPA- Region IX
Ms. Margaret H. Nellor, L. A. County Sanitation District
Ms. Nancy Cano, GTE California, Inc.- Irwindale Plant

APPENDIX B

Site Photographs

FIELD PHOTOGRAPHY SHEET

CLIENT/PROJECT GTE - Irwindale **JOB NUMBER** 2425-111-IR-REPT

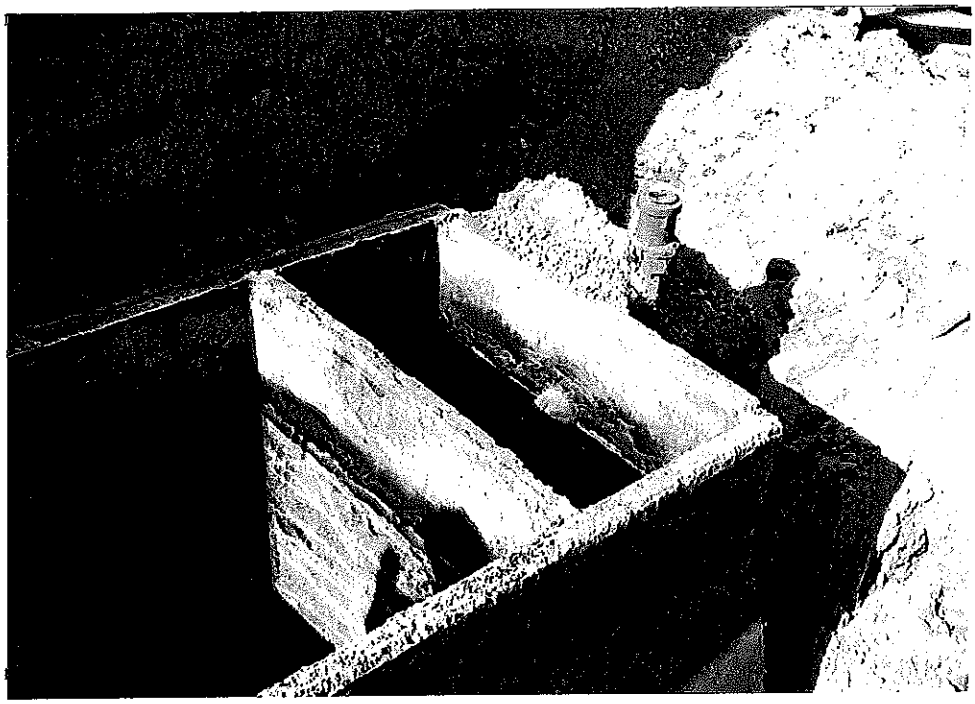


Photograph 1. View to the north, clarifer stockpile on plastic sheeting.

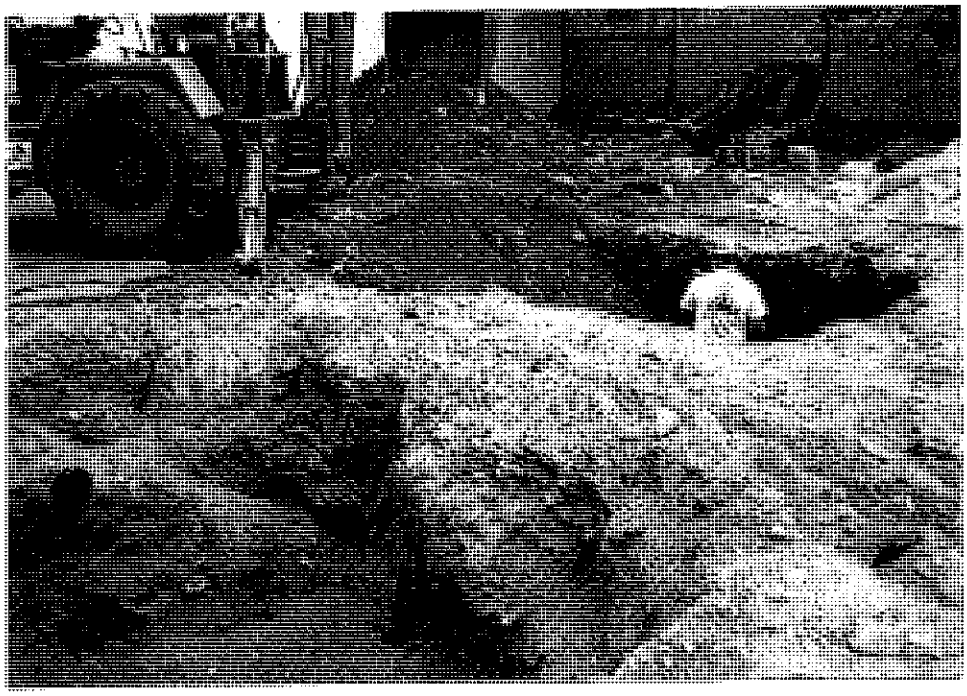
Photograph 2. 900-gallon septic tank manhole with sand slurry backfill exposed.

FIELD PHOTOGRAPHY SHEET

CLIENT/PROJECT GTE - Irwindale **JOB NUMBER** 2425-111-IR-REPT



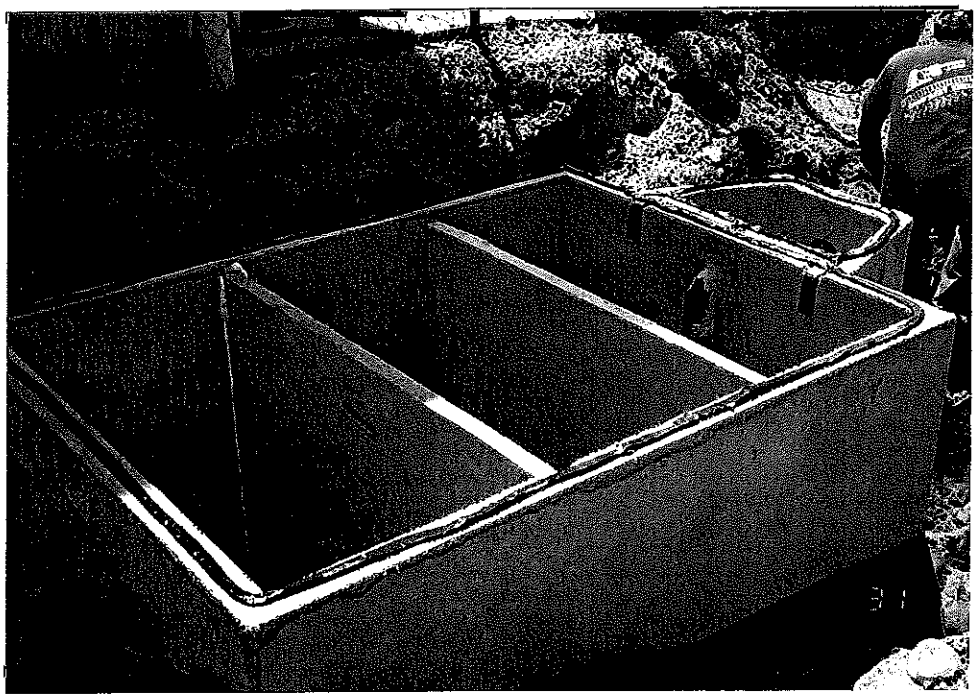
Photograph 3. Sand and grease interceptor prior to removal from excavation.



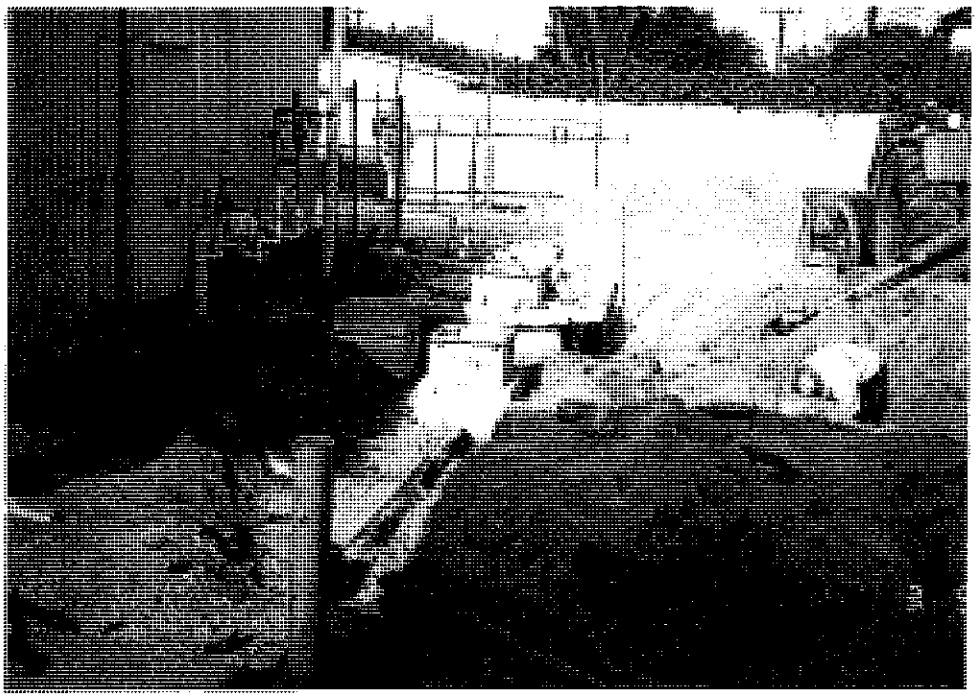
Photograph 4. View to northwest, cesspool excavation. Note brick and concrete fragments in backhoe bucket. Cesspool structure not located.

FIELD PHOTOGRAPHY SHEET

CLIENT/PROJECT GTE - Irwindale **JOB NUMBER** 2425-111-IR-REPT



Photograph 5. Nottingham 1200-gallon three stage sand and grease interceptor with sample monitoring box.

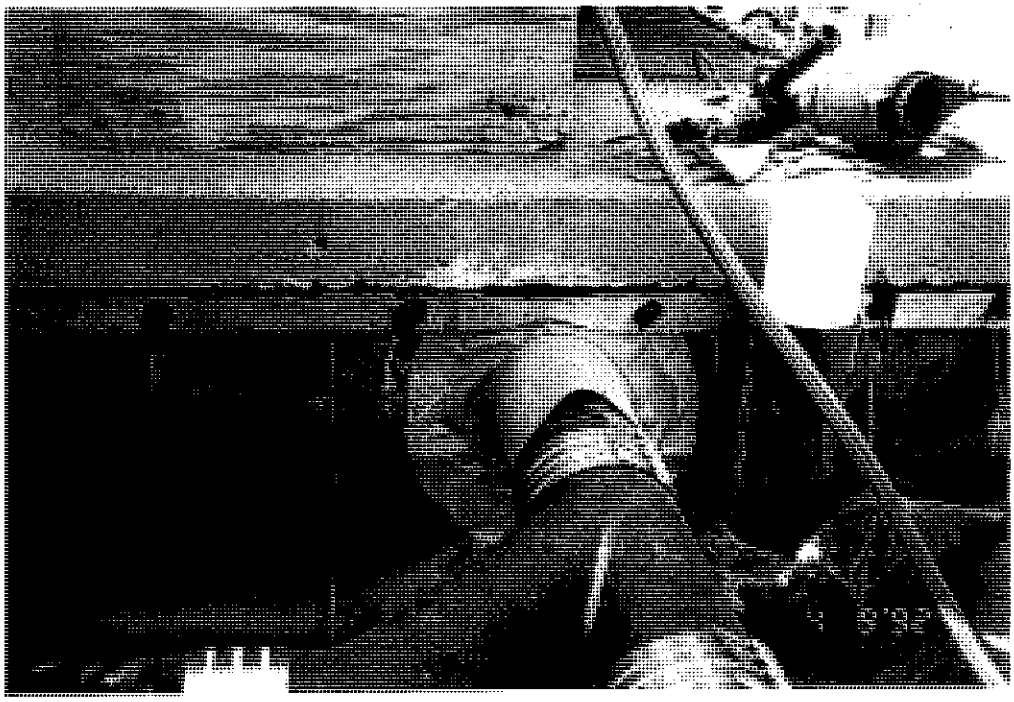


Photograph 6. View to the west, replacement of cast iron pipe from steam clean sump to sand and grease interceptor. In-line sample monitoring boxes visible in distance.

FIELD PHOTOGRAPHY SHEET

CLIENT/PROJECT GTE - Irwindale **JOB NUMBER** 2425-111-IR-REPT

Photograph 7. Sand and grease interceptor with external geomembrane liner (secondary containment system) and batten strip installation in progress.



Photograph 8. Sand and grease interceptor inlet, batten strip installation. 4-inch PVC monitoring well casing immediately to the right of the inlet.

RECEIVED
DEC 04 1992

SITE ASSESSMENT AND REMEDIATION CLOSURE REPORT GASOLINE PUMP ISLAND GTE - IRWINDALE PLANT YARD 5010 NORTH AZUSA CANYON ROAD IRWINDALE, CALIFORNIA

LADPW FILE No. I-3882

December 2, 1992

Prepared For:

GTE OF CALIFORNIA
Environmental Compliance
P.O. Box 725
Chino, CA 91708

Prepared By:

CAMP DRESSER & MCKEE INC.
18881 Von Karman Avenue, Suite 650
Irvine, California 92715

CDM PROJECT NUMBER: 2425-112-ID-REPT
IRPUMP.RPT

The information contained in this report has received appropriate technical review and approval. The conclusions and recommendations presented represent professional judgements and are based upon the findings from the preliminary investigation identified in the report and the interpretation of such data based on professional experience and background. This acknowledgement is made in lieu of all warranties, either expressed or implied.

Reviewed and Approved by

Thomas E. Fantini, P.E.
California Registered Civil Engineer No. 0047268

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1.0 INTRODUCTION

At the request of GTE of California (GTE), Camp Dresser & McKee Inc. (CDM) has prepared this closure report regarding site assessment and remedial activities performed at a gasoline pump island located at the GTE - Irwindale Plant Yard, 5010 North Azusa Canyon Road, Irwindale, California. Site activities were conducted in accordance the work plan entitled "Work Plan for Assessment and Remediation of the Gasoline Pump Island, GTE Irwindale Plant Yard", dated May 27, 1992.

Site remediation of the gasoline contaminated soil located beneath a gasoline pump island was performed during the period beginning August 5 through August 31, 1992. This report documents these activities, including excavation, chemical analysis, verification, and disposal of the contaminated soil, in conformance with the County of Los Angeles Department of Public Works (LADPW) requirements.

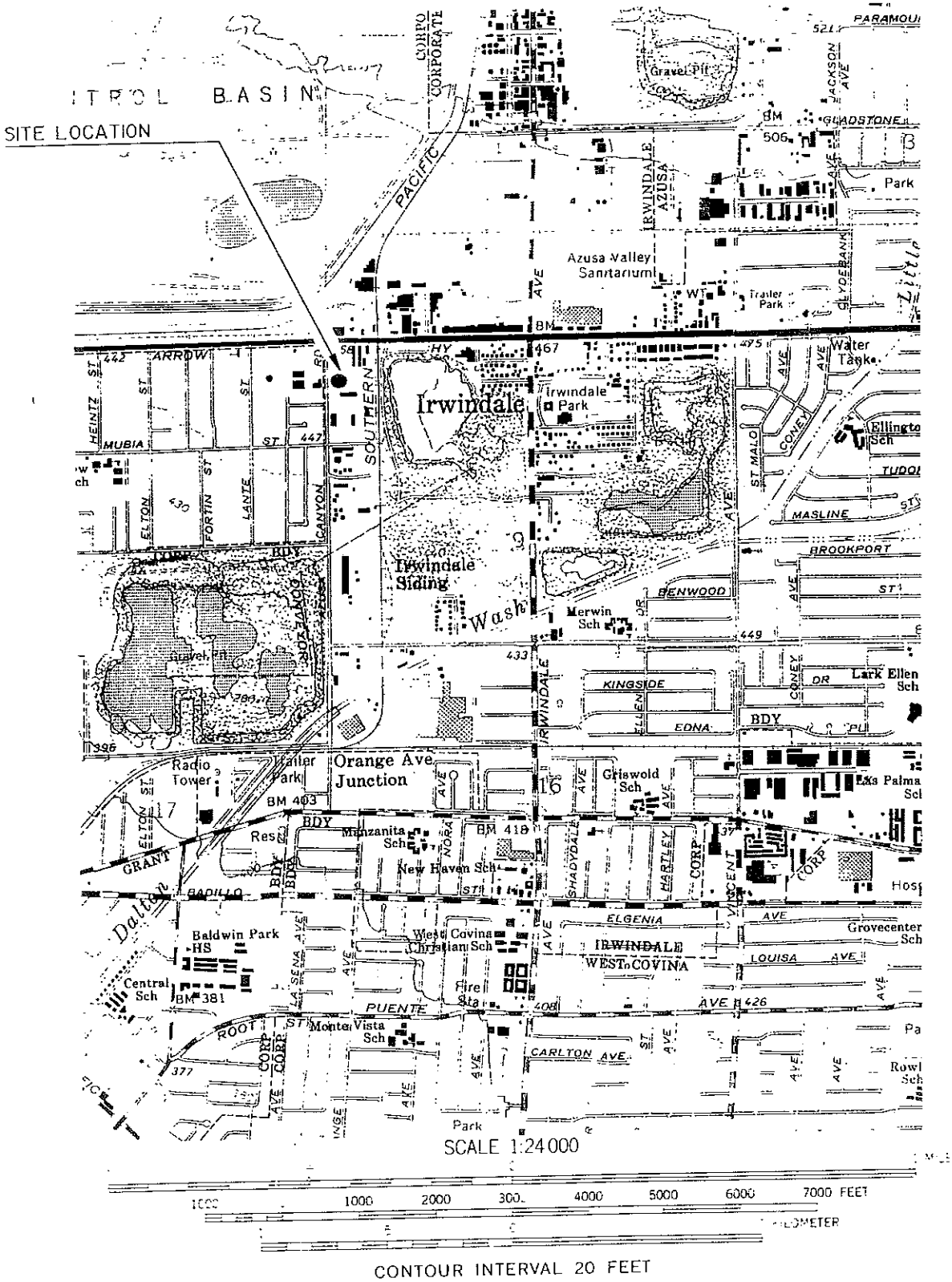
1.1 Site Description

The GTE - Irwindale Plant Yard is located at 5010 North Azusa Canyon Road, southeast of the intersection of Arrow Highway and North Azusa Canyon Road, in the city of Irwindale, California (Figure 1). The plant yard is located on relatively flat terrain with concrete and asphalt pavement covering a majority of the property. Existing structures on the property include office and vehicle service buildings.

Operations conducted at the plant yard include minor maintenance of service vehicles assigned to the facility. A plot plan of the site is included as Figure 2.

1.2 Site Background

At the request of GTE, CDM collected a soil sample on January 4, 1992, from the soil directly beneath the gasoline pump island at the GTE - Irwindale Plant Yard. The soil sample collected during this investigation was analyzed for aromatic volatile organic



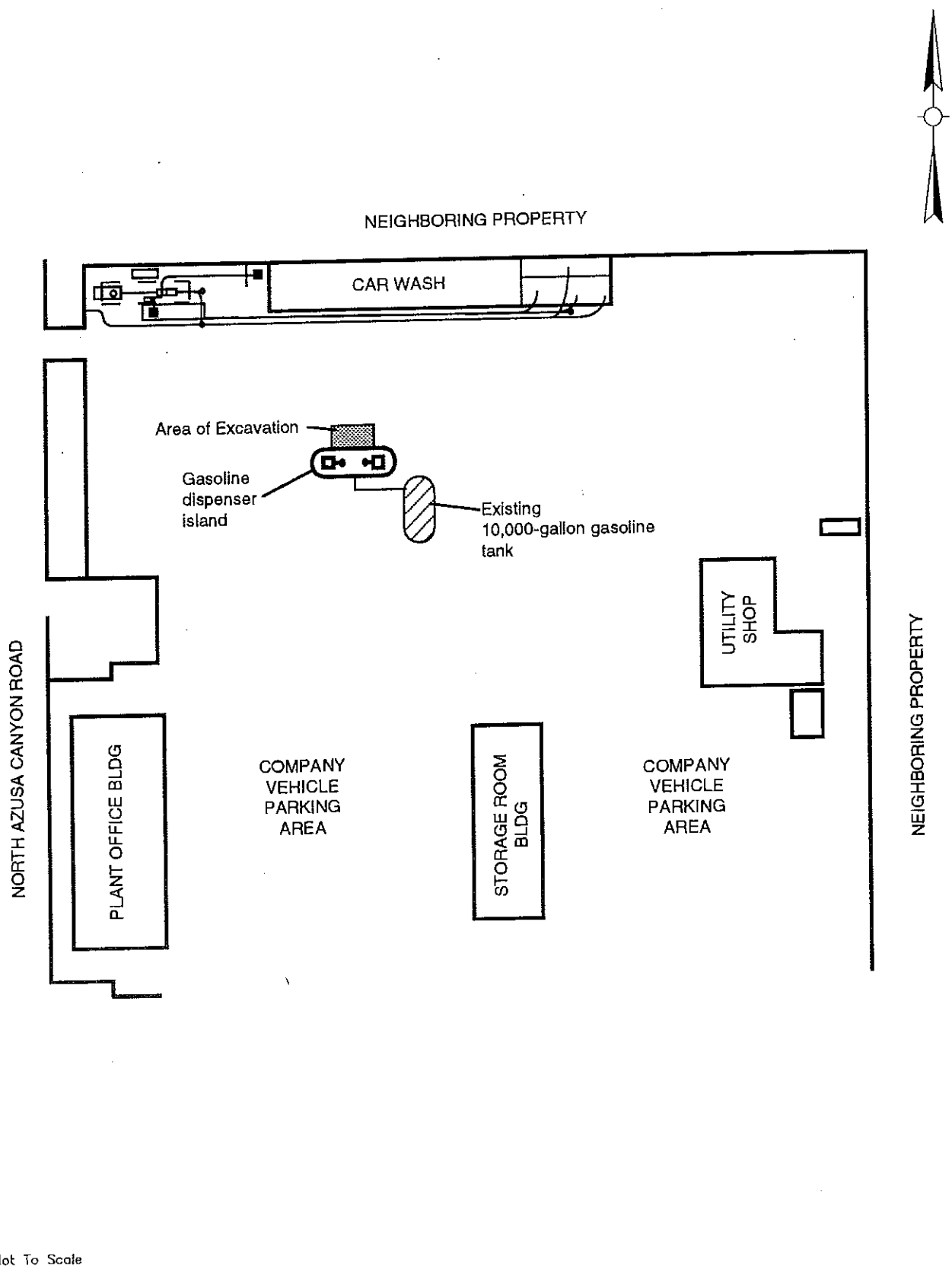
Source: USGS Topographic Map
Baldwin Park, CA Quadrangle, Photorevised 1981

GTE – IRWINDALE PLANT YARD

5010 NORTH AZUSA CANYON RD., IRWINDALE, CA
SITE LOCATION MAP

CDM
environmental engineers, scientists, planners, & management consultants

FIGURE 1



Not To Scale

GTE – IRWINDALE PLANT YARD

SITE PLAN

CDM
environmental engineers, scientists, planners, & management consultants

FIGURE 2

compounds by EPA Method 8020. Results of the analysis indicated concentrations of benzene at 14 micrograms per kilogram (μg/kg), toluene at 75 μg/kg, ethylbenzene at 68 μg/kg, and total xylenes at 620 μg/kg. A letter report describing the sampling event was submitted to GTE on March 13, 1991.

Based on the results of this investigation, the LADPW requested the submission of a formal work plan for further assessment of the site. A work plan entitled, "Work Plan for Assessment and Remediation of the Gasoline Pump Island, GTE Irwindale Plant Yard", dated May 27, 1992 was prepared for the site. Initial comments regarding the work plan were received from by GTE on April 23, 1992. A formal response was submitted to the LADPW on April 27, 1992 and the work plan was subsequently verbally approved by the LADPW on July 30, 1992.

1.3 Geologic/Hydrogeologic Conditions

The regional and local hydrogeologic conditions relative to the GTE -Irwindale Plant Yard were compiled from readily available sources including: Appendix A of the California Department of Water Resources Bulletin Number 104-2, entitled "Planned Utilization of Ground Water Basins - San Gabriel Valley", dated March 1966; and from a site investigation report prepared by Jetco Environmental & Associates, Inc, entitled "Site Investigation - GTE Irwindale Facility", dated November 14, 1990.

1.3.1 Regional Conditions

The GTE - Irwindale Plant Yard is located in the San Gabriel Valley in the eastern portion of Los Angeles County. The portion of the San Gabriel Valley that contains the principal groundwater-bearing deposits underlying the valley floor is called the San Gabriel Valley Groundwater Basin. The San Gabriel Valley Groundwater Basin is a subsurface reservoir and a structural basin of permeable alluvial deposits, underlain and surrounded by relatively impermeable rock. Alluvial deposits which fill the valley are mainly Quaternary in age.

The boundaries of the San Gabriel Valley Groundwater Basin are: the Raymond Fault to the northwest; the line of contact between alluvium and bedrock of the San Gabriel Mountains to the north; the bedrock high between San Dimas and La Verne to the east; and the line of contact between alluvium and bedrock of the low hills along the southern periphery of the basin.

The principal water-bearing formations of the San Gabriel Valley are unconsolidated and semi-consolidated nonmarine sediments of Recent and Pleistocene age. Of lesser importance are marine sediments of probable Pleistocene age, and marine sediments of late Pliocene age. Water-bearing formations in the San Gabriel Valley were derived primarily from the San Gabriel Mountains. The formations extend to a maximum depth of over 4,000 feet. The thickness of alluvial deposits resulted from sedimentation combined with uplift in the mountains and subsidence in the valley.

Water-bearing sediments forming this groundwater basin vary in size depending on locality, but generally grade from coarse gravel and boulders, close to the mountain front, to fine- and medium-grained sand containing a larger amount of silt and clay, as the distance from the mountains increase.

Groundwater in the San Gabriel Valley generally moves from the perimeter of the valley toward the Whittier Narrows. Therefore, the direction of regional groundwater flow near the site is to the west/southwest.

1.3.2 Local Conditions

Due to the proximity of the GTE - Irwindale Plant Yard to the San Gabriel Mountains and to the San Gabriel River, the sediments underlying the site consist primarily of natural alluvial deposits of the San Gabriel River. The Alluvium (Qal) is designated as the San Gabriel River Fan deposits, which consist of partially stratified sand, cobbles, and boulders. The material is unconsolidated and dense,and the sand is light gray to buff in color and fine- to medium-grained. The cobbles and boulders range up to approximately 2 feet in diameter.

According to a site investigation report of the GTE - Irwindale facility performed by Jetco Environmental Associates, Inc. (December, 1990), groundwater was not encountered in two exploratory trenches to completed at 10 feet below ground surface (bgs). Furthermore, the report stated that local wells drilled in the vicinity of the site indicated that groundwater was roughly 230 feet bgs.

2.0 PURPOSE AND SCOPE OF WORK

The purpose of the site assessment phase of the program was determine the horizontal and vertical extent of gasoline contamination in the soil located beneath the gasoline pump island. Initial field screening measures identified areas with volatile organic compound (VOC) emission concentrations above background levels. Remediation of site was performed by excavation and off-site disposal of the contaminated soil.

The scope of work for the field activities consisted of the following major tasks:

- Saw-cut and remove the existing concrete overlying the area of investigation;
- Excavate gasoline contaminated soil and perform field screening analysis of the excavated soil for VOC emissions;
- Collect representative soil samples and submit for chemical analysis for: gasoline using CA DHS Method; and, benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 8020;
- Perform off-site transportation and disposal of the contaminated soil;
- Perform backfilling and site resurfacing to match existing grade and finish.

3.0 FIELD ACTIVITIES

Field activities were performed during the period beginning August 3 through 31, 1992. All

field activities were conducted in accordance with guidelines established by the LADPW, and in accordance with the approved CDM work plan, which included a site-specific Health and Safety Plan. As specified in the work plan, the LADPW was notified a minimum of 72 hours before field activities began. All tasks were conducted by CDM personnel or by CDM's subcontractors, as noted.

3.1 Geophysical Survey

A geophysical survey was conducted by Spectrum E.S.I., prior to the initiation of excavation activities. The purpose of their investigation was to locate any underground utilities, associated tank lines, or other possible subsurface interferences beneath the gasoline pump island.

3.2 Contaminated Soil Excavation

Excavation of gasoline contaminated soil began on August 5, 1992, following the removal of a 10- by 10-foot square of concrete overlaying the area of investigation. Contaminated soil was excavated in vertical lifts two feet or less in thickness. Soil samples were collected at the top of each lift.

On-site headspace analysis for VOCs emissions was performed on each soil sample to detect the presence of gasoline components in the soil. A Foxboro™ Model 128 Organic Vapor Analyzer (OVA), equipped with a flame ionization detector, was used to monitor volatile organic vapor concentrations in the headspace above each sample. The OVA was calibrated to 50 parts per million (ppm) hexane gas prior to first use.

Excavation of the soil was continued until VOC headspace analysis indicated emissions below background levels. The excavated soil was placed into closed-top, steel bins for future off-site transportation and disposal, pending analytical laboratory results. The maximum depth of the excavation was eight feet bgs.

3.3 Confirmation Soil Sampling Program

The confirmation soil sampling program was performed in the presence of a LADPW inspector. Five soil samples were collected at varying depths beneath the gasoline pump island and submitted for chemical analysis to an outside laboratory. One soil sample was collected from the bottom of the excavation and four soil samples were collected from the sidewalls of the excavation as selected by the LADPW inspector. The locations and respective sample identifications are indicated on Figure 3.

3.3.1 Soil Sample Collection

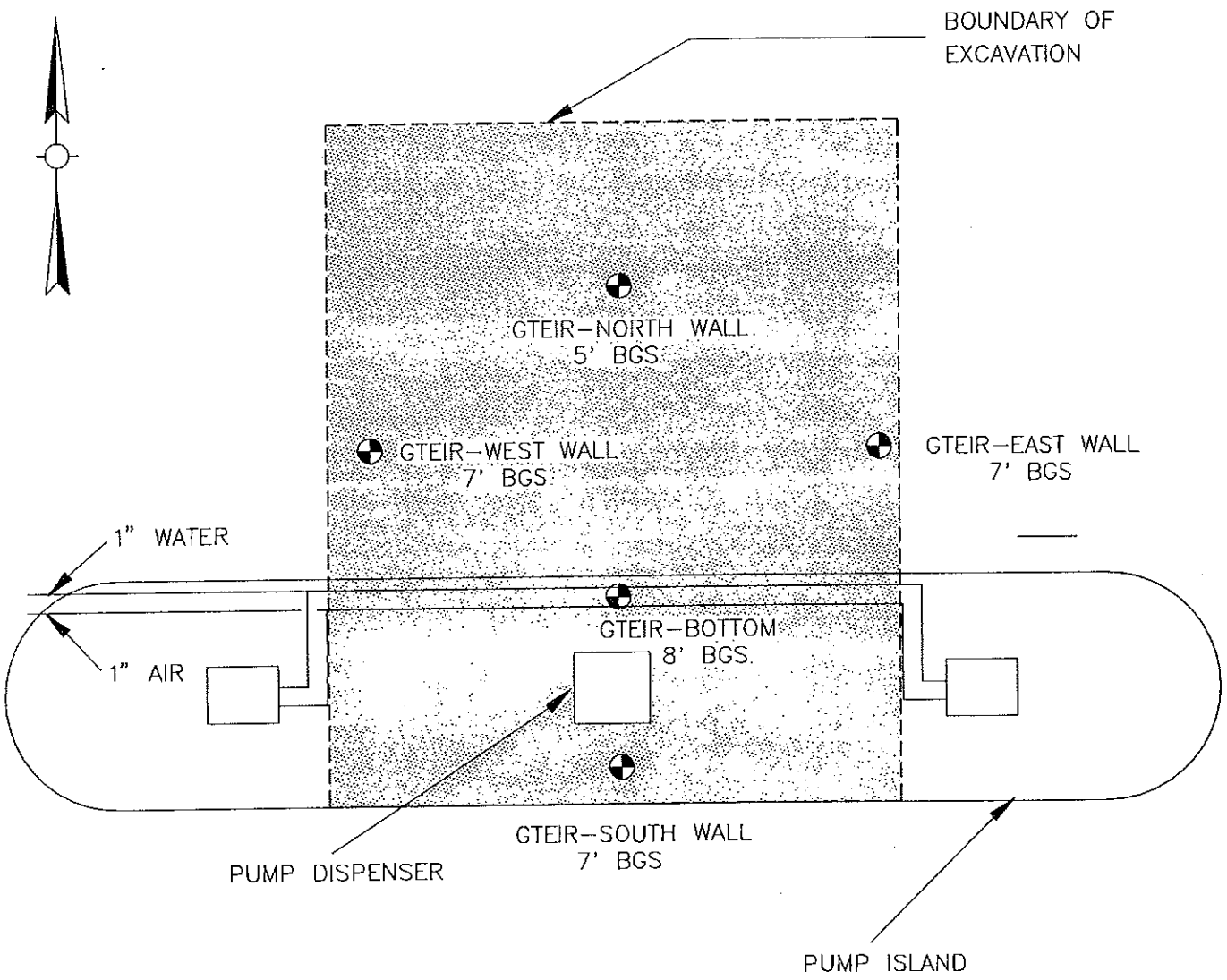
The soil samples were collected from the backhoe bucket and immediately placed into clean, laboratory provided, 250 milliliter (ml) glass jars. The samples were then labeled with indelible ink, and placed into an iced cooler for laboratory analyses. The samples were transported to the analytical laboratory on the same day as collection, accompanied by completed chain-of-custody documentation.

3.3.2 Chemical Analysis

A total of five soil samples were submitted for chemical analysis to Terra Tech Laboratories, Inc. (Terra Tech), located in Santa Ana, California. Terra Tech is a California Department of Health Services (CA DHS) certified, analytical laboratory with approved internal Quality Assurance/Quality Control (QA/QC) procedures.

The soil samples were analyzed for TVPH by the CA DHS Method, and for benzene, toluene, ethylbenzene, and total xylenes, by EPA Method 8020.

Results of the laboratory analyses indicated that benzene, toluene, ethylbenzene, and xylene constituents were not detected at concentrations above the practical quantitation limit (0.005 mg/kg) in any of the confirmation samples. Gasoline-range petroleum hydrocarbons, TVPH, were not detected (less than 0.50 mg/kg) in any of the sidewall samples. One sample



LEGEND

SOIL SAMPLE LOCATION

NOTE:

BGS = BELOW GROUND SURFACE

3 0 SCALE 3 6

FEET

GTE – IRWINDALE PLANT YARD

GASOLINE PUMP ISLAND
SOIL SAMPLE LOCATIONS

CDM
environmental engineers, scientists, planners, & management consultants

FIGURE 3

(GTEIR-Bottom) was not analyzed for TVPH. This sample was collected and submitted to the laboratory, prior to the inspection by LACDPW, as a preliminary confirmation sample.

A summary of the analytical results is contained in Table 1. Complete laboratory reports and chain-of-custody documentation are included in Appendix A.

3.4 Backfill and Resurfacing Operations

Based on the laboratory results of the confirmation soil sampling program, remediation of the gasoline contaminated soil was complete. The excavation was backfilled on August 12, 1992, using a two-sack concrete slurry. The backfilled excavation was repaved with concrete to match existing conditions, consistent with GTE specifications.

3.5 Contaminated Soil Disposal

Approximately 30 cubic yards of gasoline contaminated soil were excavated during remediation activities of the pump island. A representative soil sample of the excavated soil was collected and analyzed by Terra Tech for the following pre-disposal constituents: flash point and pH; sulfides and cyanides; phenols, fluoride and ammonia; TRPH; halogenated volatile organics; aromatic volatile organics; polychlorinated biphenyls and metals. The complete laboratory report is included as Appendix B.

Upon receipt of the pre-disposal analyses, the excavated soil was classified as non-hazardous and transported to the Laidlaw Environmental Services, Inc., Class III landfill located at 2500 Lokern Road, Buttonwillow, California. A total of 36.8 tons of soil was transported to this facility. Appendix C contains copies of the non-hazardous waste data forms and receiving weigh tickets.

4.0 SUMMARY AND RECOMMENDATIONS

Remediation of the contaminated soil identified during site assessment activities, has been

TABLE 1
GTE - Irwindale
5010 North Azusa Canyon Road
Irwindale, California
Confirmation Soil Sample Analytical Results

Confirmation Sample ID.	Sample Depth (Feet BGS)	Date Sampled	EPA METHOD 8020				CA DHS
			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	TPH, Volatile (mg/kg)
GTEIR- North Wall	5	8/10/92	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.50
GTEIR-South Wall	7	8/10/92	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.50
GTEIR-East Wall	7	8/10/92	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.50
GTEIR-West Wall	7	8/10/92	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.50
GTEIR-Bottom	8	8/7/92	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	NA

ND = Not detected at method quantitation limit

NA = Not analyzed

TPH = Total Petroleum Hydrocarbons, Gasoline Range

CA DHS = California Department of Health Services Draft Method

mg/kg = milligrams per kilogram

BGS = Below Ground Surface

completed at the gasoline pump island located at the GTE - Irwindale Plant Yard, 5010 North Azusa Canyon Road, Irwindale, California.

Excavation and off-site disposal of the contaminated soil was performed in accordance with the work plan approved by the LADPW. Confirmation soil sample locations were specified by the on-site LADPW inspector and submitted to a CA DHS certified laboratory for chemical analyses. The soil samples were analyzed for BTEX using EPA Method 8020 and TVPH using CA DHS Method. Results of the laboratory analyses showed that no gasoline constituents were detected at concentrations above the respective practical quantitation limits.

Based on the foregoing, CDM requests that the LADPW approve closure of the subject pump island area located at the GTE - Irwindale facility.

APPENDIX A

ANALYTICAL LABORATORY REPORTS
and
CHAIN-OF-CUSTODY DOCUMENTATION

for

CONFIRMATION SOIL SAMPLING

TERRA TECH LABS

1920 E. Deere Ave., Suite 130 • Santa Ana, California 92705
Tel 714.757.7022 • Fax 714.757.7274

LABORATORY REPORT

Client:	Camp Dresser & McKee	Report Date:	8/12/92
Client Address:	18881 Von Karman, ste 650 Irvine, CA 92715	Lab P.N.:	3821
		Client P.N.:	2425-112-IR
Contact:	Stephen Mutch		
Project Name:	GTE Irwindale	Date Sampled:	8/10/92
Project Address:	5010 N. Azusa Canyon Rd. Irwindale, CA	Date Received:	8/10/92
		Date Analyzed:	8/10/92
		Physical State:	Solid

Quality Assurance/Quality Control Summary

Parameter (Method)	QC Type	Percent Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
Benzene (EPA 8020)	M	94	65-120	0	0-20
Toluene (EPA 8020)	M	95	60-122	3	0-22
Ethylbenzene (EPA 8020)	M	91	46-130	5	0-20
Xylenes, Total (EPA 8020)	M	92	45-135	2	0-19

M = Matrix Spike / Matrix Spike Duplicate

L = Laboratory Control Sample Spike / Spike Duplicate

Reviewed

Approved

The samples were received by TERRA TECH LABS, Inc. in a chilled state, intact and accompanied by the Chain-of-Custody Record.
Acceptance of samples by Terra Tech Labs, Inc. is not an indication of condition upon receipt.
Laboratory Results apply only to the sample matrix analyzed and may not apply to an apparently identical or similar sample.
The Laboratory Report is the property of the client to whom it is addressed.
The Laboratory Results are only a portion of the Laboratory Report.

AUG 14 1992

LABORATORY RESULTS

Client:	Camp Dresser & McKee	Report Date:	8/12/92
Client Address:	18881 Von Karman, ste 650 Irvine, CA 92715	Lab P.N.:	3821
		Client P.N.:	2425-112-IR
Project Name:	GTE Irwindale	Date Sampled:	8/10/92
Project Address:	5010 N. Azusa Canyon Rd. Irwindale, CA	Date Analyzed:	8/10/92
		Physical State:	Solid

Sample ID	Benzene EPA 8020 mg/kg	Toluene EPA 8020 mg/kg	Ethylbenzene EPA 8020 mg/kg	Xylenes, Total EPA 8020 mg/kg
GTE IR North Wall	ND	ND	ND	ND
GTE IR South Wall	ND	ND	ND	ND
GTE IR East Wall	ND	ND	ND	ND
GTE IR West Wall*	ND	ND	ND	ND
Quantitation Limit, mg/kg	0.0050	0.0050	0.0050	0.0050

*NOTE: Surrogate recoveries were out of the QC limits due to matrix interference. The sample was re-analyzed to confirm the result.

ND; Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TERRA TECH LABS

1920 E. Deere Ave., Suite 130 ▲ Santa Ana, California 92705
Tel 714.757.7022 ▲ Fax 714.757.7274

LABORATORY REPORT

Client:	Camp Dresser & McKee	Report Date:	8/27/92
Client Address:	18881 Von Karman, ste 650 Irvine, CA 92715	Lab P.N.:	3821
		Client P.N.:	2425-112-IR
Contact:	Stephen Mutch		
Project Name:	GTE Irwindale	Date Sampled:	8/10/92
Project Address:	5010 N. Azusa Canyon Rd. Irwindale, CA	Date Received:	8/10/92
		Date Analyzed:	8/10/92
		Physical State:	Solid

Quality Assurance/Quality Control Summary

Parameter (Method)	QC Type	Percent Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
TPH, Volatile (CA DHS)	M	86	46-113	10	0-12

M = Matrix Spike / Matrix Spike Duplicate

L = Laboratory Control Sample Spike / Spike Duplicate

Ruth W Willson
Reviewed

Approved

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Acceptance of samples by Terra Tech Labs, Inc. is not an indication of condition upon receipt.
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The Laboratory Results are only a portion of the Laboratory Report.

LABORATORY RESULTS

Client:	Camp Dresser & McKee	Report Date:	8/27/92
Client Address:	18881 Von Karman, ste 650 Irvine, CA 92715	Lab P.N.:	3821
		Client P.N.:	2425-112-IR
Project Name:	GTE Irwindale	Date Sampled:	8/10/92
Project Address:	5010 N. Azusa Canyon Rd. Irwindale, CA	Date Analyzed:	8/10/92
		Physical State:	Solid

Sample ID	TPH Volatile CA DHS mg/kg
GTE IR North Wall	ND
GTE IR South Wall	ND
GTE IR East Wall	ND
GTE IR West Wall*	ND
Quantitation Limit, mg/kg	0.50

*NOTE: Surrogate recoveries were out of the QC limits due to matrix interference. The sample was re-analyzed to confirm the result.

ND; Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

Chain-Of-Custody Record

TERRA TECH LABS Inc.
ENVIRONMENTAL TESTING
1920 E. Deere Ave., Suite 130
Santa Ana, CA 92705
Tel 714.757.7022
Fax 714.757.7274

Client CDM

Date 8-10-92

Project Name GTE Irwindale

Client Project # 2425-112-IR

Project Address

Turn Around Requested:
- [X] Immediate Attention
- [X] Rush 24-48 Hours
- [ ] Rush 72-96 Hours
- [ ] Normal
- [ ] Mobile Lab

CA DHS TPH

Project Contact Steve Mutch

TTL Project # 3821

Page of

Lab Use Only
Sample Condition as Received:
Chilled [ ] yes [ ] no
Sealed [ ] yes [ ] no

Analysis Requested

Sample ID	Sample Location	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A)	8020 (BTEX)	CA DHS-TPH-Gasoline requested 8/24/92	Number of Containers	Container/Comments
GTEFR North Wall	Pump Excavat	8/10/92	1110	TT14884	S	X	X	1	8oz Glass Jar
GTEFR South Wall				TT14885	S	X	X	1	
GTEFR East Wall				TT14886	S	X	X	1	
GTEFR West Wall				TT14887	S	X	X	1	

❶ Relinquished by (signature) Steve Mutch	Date 8-10-92	❷ Received by (signature)	Date		Total Number of Containers	
Company CDM	Time 1110	Company	Time	Additional Comments		
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature) K. Spalding	Date 8/10/92			
Company	Time	Company TTC	Time 11:11			

TERRA TECH LABS

1920 E. Deere Ave., Suite 130 · Santa Ana, California 92705
Tel 714.757.7022 · Fax 714.757.7274

LABORATORY REPORT

Client:	Camp Dresser & McKee	Report Date:	8/11/92
Client Address:	18881 Von Karman, ste 650 Irvine, CA 92715	Lab P.N.:	3815
		Client P.N.:	2425-112-IR
Contact:	Stephen Mutch		
Project Name:	GTE Irwindale	Date Sampled:	8/7/92
Project Address:	5010 N. Azusa Canyon Rd. Irwindale, CA	Date Received:	8/7/92
		Date Analyzed:	8/10/92
		Physical State:	Solid

Quality Assurance/Quality Control Summary

Parameter (Method)	QC Type	Percent Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
Benzene (EPA 8020)	M	77	65-120	4	0-20
Toluene (EPA 8020)	M	78	60-122	1	0-22
Ethylbenzene (EPA 8020)	M	65	46-130	5	0-20
Xylenes, Total (EPA 8020)	M	91	45-135	5	0-19

M = Matrix Spike / Matrix Spike Duplicate

L = Laboratory Control Sample Spike / Spike Duplicate

Reviewed

Approved

The samples were received by TERRA TECH LABS, Inc. in a chilled state, intact and accompanied by the Chain-of-Custody Record.
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Laboratory Results apply only to the sample matrix analyzed and may not apply to an apparently identical or similar sample.
The Laboratory Report is the property of the client to whom it is addressed.
The Laboratory Results are only a portion of the Laboratory Report.

LABORATORY RESULTS

Client:	Camp Dresser & McKee	Report Date:	8/11/92
Client Address:	18881 Von Karman, ste 650 Irvine, CA 92715	Lab P.N.:	3815
		Client P.N.:	2425-112-IR
Project Name:	GTE Irwindale	Date Sampled:	8/7/92
Project Address:	5010 N. Azusa Canyon Rd. Irwindale, CA	Date Analyzed:	8/10/92
		Physical State:	Solid

Sample ID	Benzene EPA 602 mg/kg	Toluene EPA 602 mg/kg	Ethylbenzene EPA 602 mg/kg	Xylenes, Total EPA 602 mg/kg
GTEIR	ND	ND	ND	ND
Quantitation Limit, mg/kg	0.0050	0.0050	0.0050	0.0050

ND; Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

Chain-Of-Custody Record

TERRA TECH LABS Inc.
ENVIRONMENTAL TESTING
1920 E. Deere Ave., Suite 130
Santa Ana, CA 92705
Tel 714.757.7022
Fax 714.757.7274

Client: CDM
Date: 8-7-92
Project Name: GTE Irwindale
Client Project #: 2425-112-FR
Project Address: 5010 N. Azusa Cyn Rd. Irwindale Ca.
Turn Around Requested:
- ☐ Immediate Attention
- ☒ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☐ Normal
- ☐ Mobile Lab

Project Contact: Steph Mutch

TTL Project #: 3815
Page: of
Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☐ no
Sealed ☐ yes ☐ no

Sample ID	Sample Location	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A)	Analysis Requested: EPA 8020 (BTEX)	Number of Containers	Container/Comments
GTEIR	Below pump 8' BGS	8-7-92	1130	TI48655	S	X	1	Brass sleeve

Total Number of Containers

❶ Relinquished by (signature): Steph Mutch	Date: 8-7-92	❷ Received by (signature):	Date:	Additional Comments
Company: CDM	Time: 1130	Company:	Time:	
❸ Relinquished by (signature):	Date:	❹ Received by Laboratory (signature): K. Spalding	Date: 8/7/92	
Company:	Time:	Company: TTL	Time: 1136	

CDM

environmental engineers, scientists, planners, & management consultants

CAMP DRESSER & McKEE INC.

18881 Von Karman, Suite 650
Irvine, California 92715
714 752-5452, Fax: 714 752-1307

February 4, 1993

GTE OF CALIFORNIA
Environmental Compliance
P.O. Box 725
Chino, California 91708

Attention: Ms. Jackie McCormick
RC1603BC301

Subject: Additional Site Investigation of Diesel Pump Island
GTE - Irwindale Plant Yard
Irwindale, California

CDM Project No.: 2425-113(J)-IR-RPT

Dear Ms. McCormick:

At the request of GTE of California (GTE), Camp Dresser & McKee Inc. (CDM) performed additional site investigation activities of the diesel pump island at the GTE - Irwindale Plant Yard located at 5010 North Azusa Canyon Road, in the City of Irwindale, California (Figure 1).

The investigation was performed in response to a request by the County of Los Angeles Department of Public Works (LACDPW) for additional soil sampling. The purpose of the investigation was to assess residual petroleum hydrocarbon contamination, if any, at a former boring location SP-1 (Figure 2). This report describes the field activities, presents the analytical results, and includes CDM's conclusions derived from the investigation.

1.0 INTRODUCTION

Preliminary site assessment activities were performed at the diesel pump island by JETCO Environmental and Associates, Inc. (JETCO) during the period beginning July through September 1990. The findings of the investigation indicated a maximum total petroleum hydrocarbon (TPH) concentration of 4,200 milligrams per kilogram (mg/kg) at a depth of two feet directly below the pump island. Contaminated soil excavation activities were completed during this period and documented in a report entitled "Site Investigation" (November 1990), compiled by JETCO.

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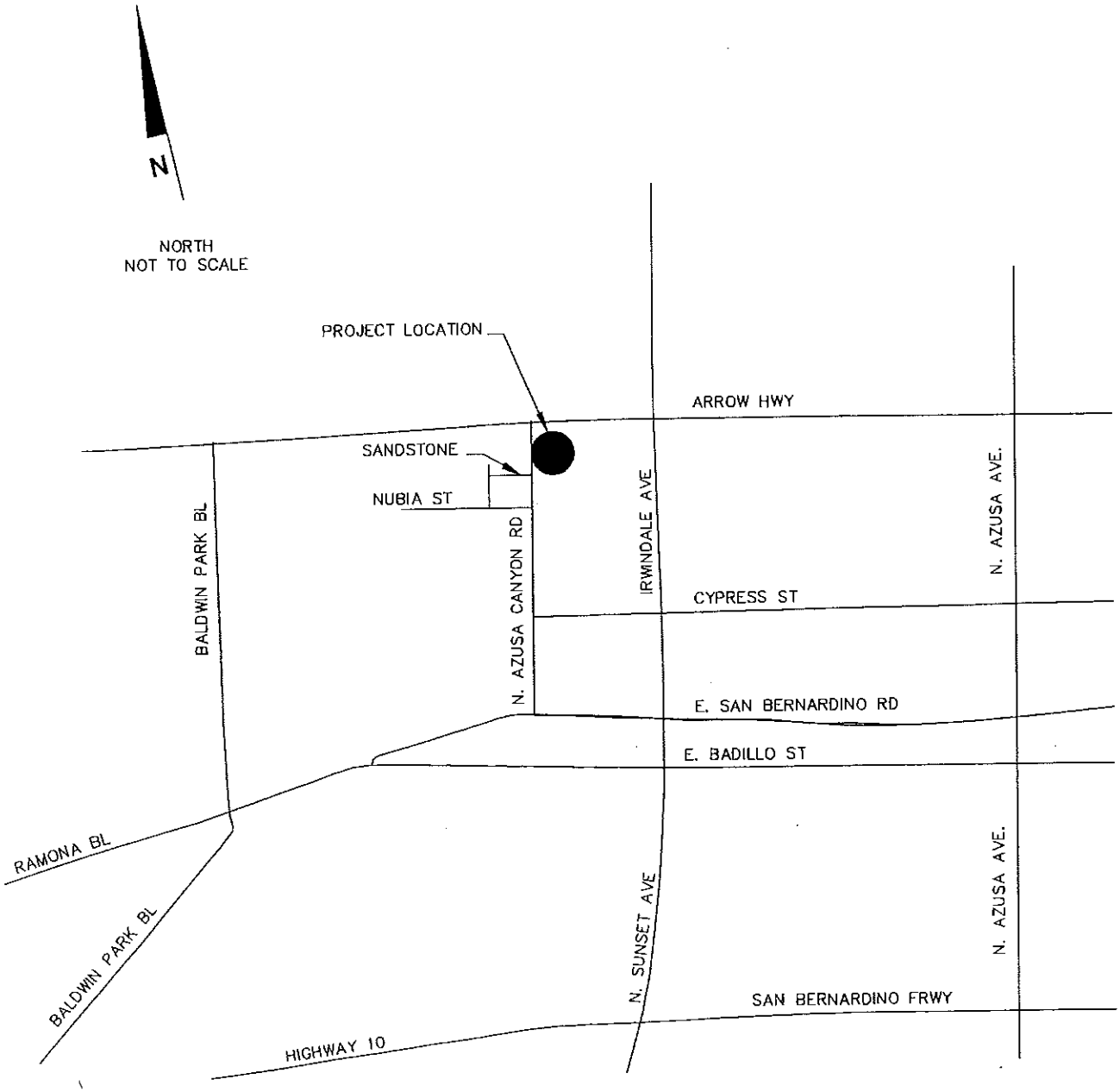


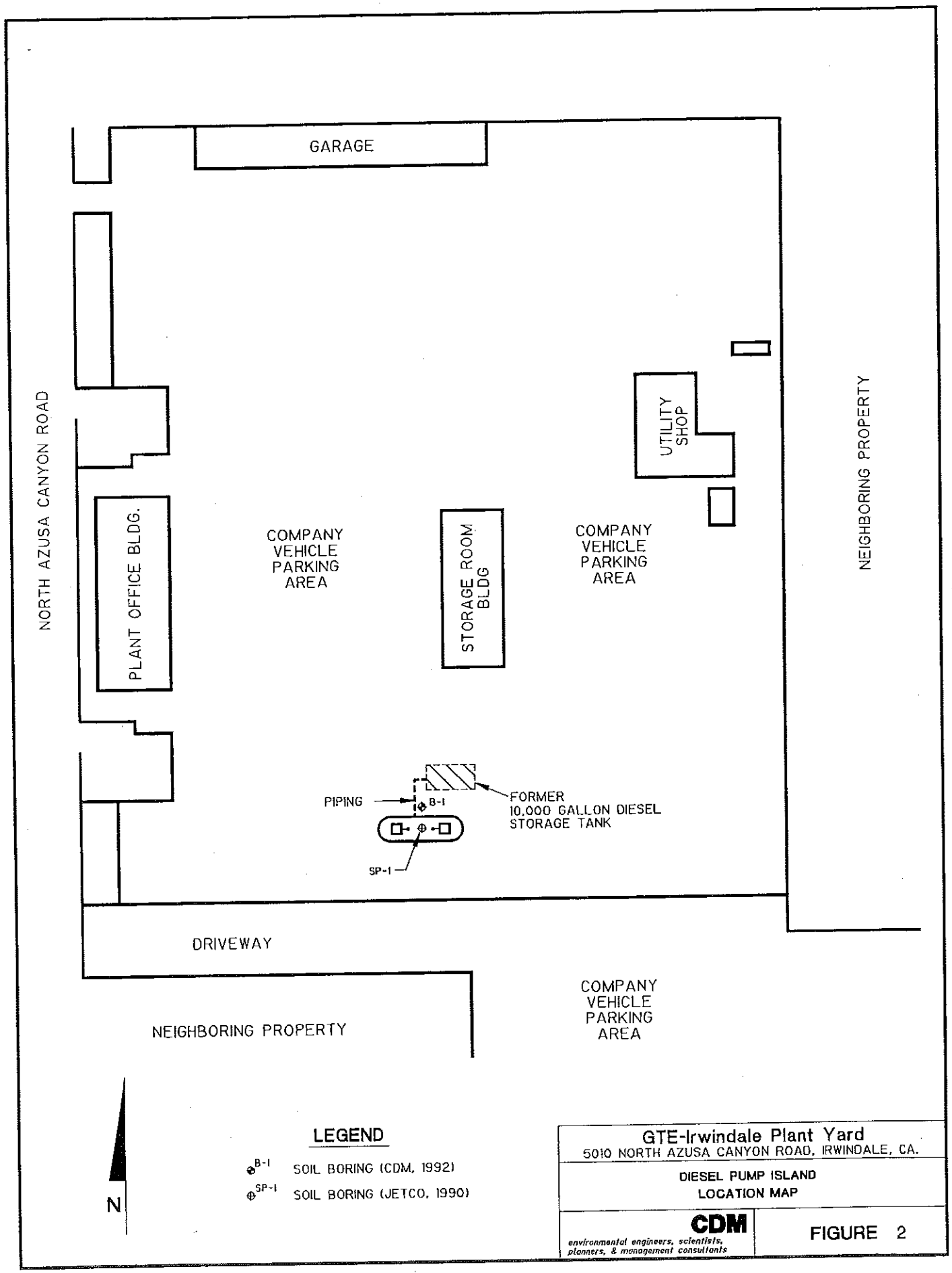
GTE-Irwindale Plant Yard
5010 NORTH AZUSA CANYON ROAD, IRWINDALE, CA.

DIESEL PUMP ISLAND
SITE LOCATION MAP

CDM
environmental engineers, scientists, planners, & management consultants

FIGURE 1

C:\GTE2425\113-IR\ BASE 01/07/93



01/07/93

FIGURE2

C:\GTE2425\113-IR\

On August 27, 1992, LACDPW issued a letter to GTE which requested additional soil sampling at depths of 5, 10 and 15 feet below ground surface (bgs) at the location of SP-1. LACDPW required that the soil samples be analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8020; and total extractable petroleum hydrocarbons (TEPH) using California Department of Health Services (CA DHS) Method for diesel fuel. In accordance with a September 15, 1992 telephone conversation between CDM and LACDPW, the requested sample depths were revised to 10 and 15 feet bgs.

2.0 SCOPE OF WORK

The scope of work for the soil sampling program included the completion of the following tasks:

- Collection of two soil samples, B-1-2 and B-1-4, at 12 and 17 feet bgs, respectively.
- Field screening of the soil samples for VOCs and TRPH concentrations using a portable flame ionization detector (FID) and infrared spectrometer (IR).
- Chemical analysis of both soil samples for BTEX (EPA Method 8020) and TEPH (CA DHS - Diesel) by a California State certified laboratory.

3.0 FIELD ACTIVITIES

Field activities were conducted by CDM personnel on December 10, 1992. The soil boring was advanced with conventional hollow-stem auger drill rig equipment (CME-55) operated by Spectrum Exploration, Inc. (Signal Hill, California). An on-site geologist supervised the drilling and sample collection activities under the guidance of a California registered professional engineer. Site personnel were trained in accordance with the Code of Federal Regulations, Part 29 Section 1910.120 (29 CFR 1910.120). Field activities were performed with Level D personal protection equipment (PPE).

Drilling and sample collection activities were witnessed by Mr. Matt Liao of LACDPW. Due to the presence of the diesel island overhang directly above SP-1, the

boring was off-set 4.5 feet to the north, perpendicular to the pump island (Figure 3). Boring B-1 was advanced at this location to a maximum depth of 17 feet bgs. Subsurface geologic and other information is depicted on the boring log (Attachment A).

3.1 Field Screening

A Foxboro™ 128 Organic Vapor Analyzer (OVA) equipped with an FID, was used to screen the soil samples for VOC concentrations. The OVA was calibrated with 50 parts per million (ppm) hexane gas prior to first use. Field screening for total recoverable petroleum hydrocarbons (TRPH) concentrations was also performed with a Miran™ 1 FF infrared spectrometer (IR) using modified EPA Method 418.1. Calibration of the field IR was performed at the beginning of the day against laboratory-prepared standards.

The results of the field screening analyses indicated VOC headspace concentrations of 2.0 ppm or less and TRPH concentrations of 4.0 ppm or less in the soil samples. Attachment A contains the IR field data form.

3.2 Sample Collection and Handling

Boring B-1 was advanced with 6-inch hollow-stem augers. To minimize the possibility of cross-contamination between each sampling event, all sampling equipment was cleaned with a soapy water (Alconox™ or equal laboratory-grade detergent) wash and thoroughly scrubbed with stiff brushes. The equipment was rinsed with tap water followed by a double deionized water rinse.

Sample B-1-2 was collected at 12 feet bgs with a split-spoon drive sampler fitted with clean, 2-inch by 6-inch, brass sleeves lining the interior. Upon removal of the completely filled brass sleeve from the sampler, aluminum foil was placed over each end. Plastic end-caps were placed over the ends and secured with non-volatile adhesive tape.

Boring B-1 was then advanced to 15 feet bgs; however, rocks encountered at this depth precluded the collection of a soil sample with the split-spoon sampler. The boring was first advanced to 16 feet bgs, and then to 17 feet bgs with the same conditions encountered. As sample collection with a spilt-spoon sampler was not possible at depth, sample B-1-4 was collected from the recovered sample material and then placed

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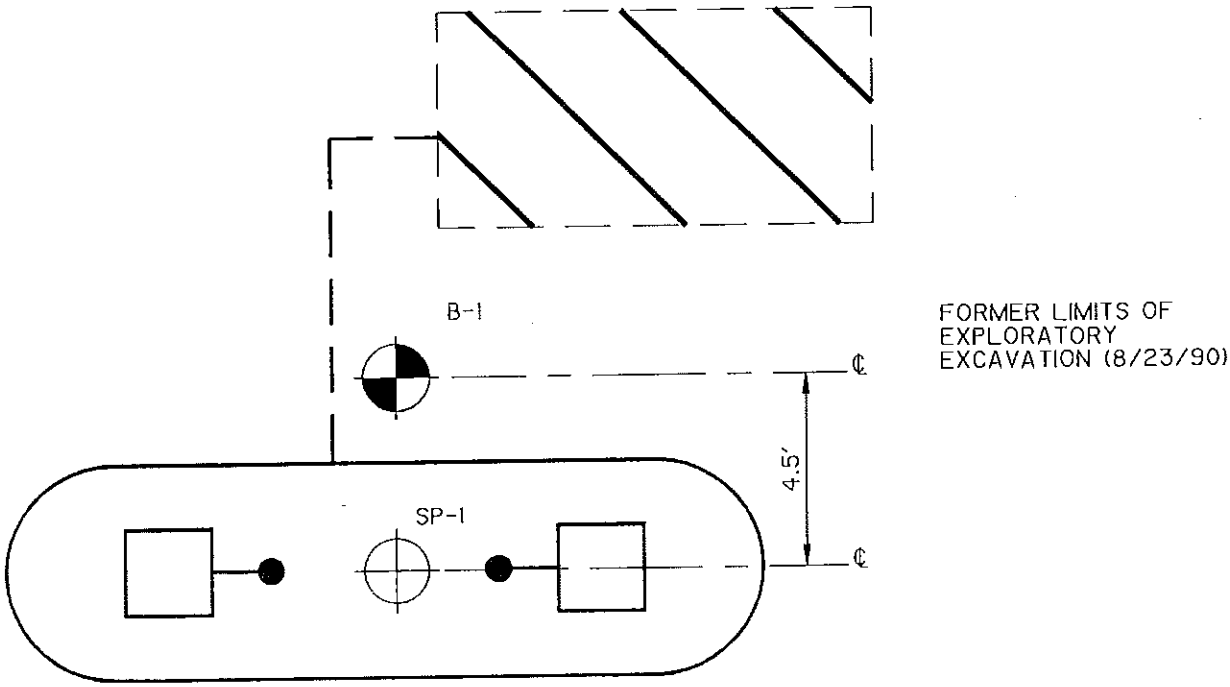

LEGEND

- B-1 SOIL BORING (CDM, 1992)
- SP-1 SOIL BORING (JETCO, 1990)

GTE-Irwindale Plant Yard
5010 NORTH AZUSA CANYON ROAD, IRWINDALE, CA.

DIESEL PUMP ISLAND
BORING LOCATION MAP

CDM
environmental engineers, scientists, planners, & management consultants

FIGURE 3

C:\GTE2425\113-IR\ FIGURE3 01/07/93

into a clean, 8-ounce glass jar. The completely filled sample container was capped and securely sealed.

Both samples were immediately labeled with indelible ink, inserted into a resealable plastic freezer bag, and placed in an iced cooler. The samples were transported to the laboratory on the same day of collection, accompanied by a completed chain-of-custody (COC) form.

Upon completion of the drilling activities, the soil boring was backfilled with bentonite slurry (Volclay grout, or equivalent). Abandonment of the boring was performed in accordance with the guidelines set forth in the document entitled "California Well Standards, Bulletin 74-90" (January, 1990), published by the California Department of Water Resources. Surface completion was performed with portland concrete to match existing grade and finish. Soil boring cuttings and decontamination liquids were stored in 55-gallon steel drums pending future off-site disposal.

4.0 ANALYTICAL LABORATORY RESULTS

Two soil samples (B-1-2 and B-1-4) were submitted to Terra Tech Laboratories, Inc. (Terra Tech) located in Santa Ana, California. Terra Tech is California Department of Health Services certified, analytical laboratory with approved internal quality assurance/quality control procedures.

Samples B-1-2 and B-1-4 were both chemically analyzed for BTEX using EPA Method 8020 and TEPH using CA DHS Method. The results of the laboratory indicated non-detectable concentrations of these constituents in both samples.

Complete laboratory reports and chain-of-custody documents are included as Attachment B.

5.0 CONCLUSIONS

As requested by LACDPW, additional soil sampling was performed at the diesel pump island to assess the potential for any residual contamination not removed during the the underground storage tank removal performed by JETCO on November 30, 1988. The analytical results of the soil samples collected from boring B-1 at depths of 12 and 17 feet bgs indicated no presence of petroleum hydrocarbon contamination. Based on the data collected to date from this and past investigations, closure of the diesel pump island should be requested from LACDPW.

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If you have any questions or require clarification of the information contained in this report, please do not hesitate to call.

Sincerely,

CAMP DRESSER & McKEE INC.

Michael G. Gray
Project Geologist

Thomas E. Fantini, P.E.
Project Manager

Attachments

cc: A. Hollis, GTE of California
D. Michael Kammerzelt, Camp Dresser and McKee Inc.

/GTE/IRWINDALE/diesel.rpt
2/4/93:bfw

Attachment A

Soil Boring Log / Field Data Form

Camp Dresser & McKee Inc.

Boring Log and Sampling Record

Client GTE - California Site Irwindale Plant Yard Job No. 2425-113-IR-FLD Soil Bore/ Well No. B-1
Drill Contractor Spectrum Exploration, Inc. Drill Method 6-inch Hollow Stem Auger, CME 55 Date Drilled 12/10/92
Monitoring Well Casing Size & Type NA Screened Interval -- Total Depth 17 Ft.
Logged by M. Gray PID ___ FID X Elevation & Datum -- Depth To Water --

DEPTH (ft.)	SAMPLE NO.	TIME	Graphic Log: Well Detail	Graphic Log: Lithology	USCS	DESCRIPTION AND REMARKS	BLOWS/FT	PID ppm	FID ppm	IR mg/Kg
						0 - 0.5', Concrete.				
					SP	0.5', Artificial Fill (Af), SAND with GRAVEL; tan to brown; sand fine- to -coarse grained; gravel up to 2 inches in diameter; damp.				
5										
10	B-1-1	0900				AS ABOVE, no recovery.	10 47 10		1.6	
	B-1-2	0915			GW	Alluvium (Qal), WELL GRADED GRAVEL with SAND; gray; gravel subangular, greater than 2 inches in diameter; sand well graded, predominantly medium- to -coarse grained, angular to subangular; moist to very moist, dense, sampler hitting rock - poor recovery.			0.6	ND
15	B-1-3	0930				At 15', AS ABOVE, sampler hitting rock - no recovery.			0.0	4.0
	B-1-4	0945				At 17', AS ABOVE; moist to very moist, very dense; poor recovery.	50/6"		0.0	ND
20						Total Depth 17 Feet Bore Hole Backfilled with Volclay Grout No Groundwater Encountered				

Total Petroleum Hydrocarbons, Recoverable (EPA 418.1) Worksheet

Client:	GTE OF CALIFORNIA
Job Name:	IRWINDALE DIESEL IS.
Job No.	2725-113-IR-FLD
Instrument ID:	
Date:	12/10/92
Analyst:	M. GRAY

Calibration Data:	Initial Calibration	Final Calibration
Calibration Factor, CF, mg/L/Abs (1A setting)	1492	1492
Method Blank Response	0.000	0.000
Conc. of Calibration Standard (mg/L)	1000	1000
Calibration Absorbance, CA	.650	.650
Calibration Recovery, %	97%	97%

Sample ID	Matrix Mass MM, g	Solvent Volume SV, ml	Dilution Factor DF	Absorbance, A 1A setting	TRPH * mg/Kg
B-1-2 @ 12	19.9	25.0		0.00	ND<5
B-1-3 @ 15	20.0	25.0		0.002	4
B-1-4 @ 17	20.2	25.0		0.00	ND<5
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
		25.0			
QC Sample ID:		25.0			
Spike ID:		24 + 1 (sp)			
Spike Dup. ID:		24 + 1 (sp)			

Note: Volume of spike solution is 1 ml and volume of Freon added is 24 ml for a final volume of 25 mls.

* TRPH = A x CF x SV x DF/MM

QA/QC Data:			% Recovery
	Concentration of spike solution, mg/ml	10.00	
	Actual spike = mg spike/MMX1000		
	Actual spike dup. = mg spike/MMX1000		

Attachment B

Laboratory Reports
and
Chain-of-Custody Documentation

TERRA TECH LABS

1920 E. Deere Ave., Suite 130 · Santa Ana, California 92705
Tel 714 757.7022 · Fax 714.757.7274

LABORATORY REPORT

Client: Camp Dresser & McKee
Client Address: 18881 Von Karman, Suite 130
Irvine, CA 92715

Contact: Tom Fantini

Project Name: GTE-Irwindale
Project Address: 5010 N. Azusa Cyn Rd.
Irwindale, CA

Report Date: 12/14/92
Lab P.N.: 4212
Client P.N.: 2425-113-IR-FLD

Date Sampled: 12/10/92
Date Received: 12/10/92
Date Analyzed: 12/10/92
Physical State: Solid

Quality Assurance/Quality Control Summary

Parameter (Method)	QC Type	MS Percent Recovery	MSD Percent Recovery	Acceptable Range	Relative Percent Difference	Acceptable Range
Benzene (EPA 8020)	M	105	105	65-120	0	0-20
Toluene (EPA 8020)	M	105	104	60-122	0	0-22
Ethylbenzene (EPA 8020)	M	101	100	46-130	1	0-20
Xylenes, Total (EPA 8020)	M	100	98	45-135	2	0-19
TPH, Extractable (CA DHS)	M	87	91	41-143	4	0-32

M = Matrix Spike / Matrix Spike Duplicate

L = Laboratory Control Sample Spike / Spike Duplicate

Reviewed

Approved

The samples were received by TERRA TECH LABS, Inc. in a chilled state, intact and accompanied by the Chain-of-Custody Record.
Acceptance of samples by Terra Tech Labs, Inc. is not an indication of condition upon receipt.
Laboratory Results apply only to the sample matrix analyzed and may not apply to an apparently identical or similar sample.
The Laboratory Report is the property of the client to whom it is addressed.
The Laboratory Results are only a portion of the Laboratory Report.

LABORATORY RESULTS

Client:	Camp Dresser & McKee	Report Date:	12/14/92
Client Address:	18881 Von Karman, Suite 130 Irvine, CA 92715	Lab P.N.:	4212
		Client P.N.:	2425-113-IR-FLD
Project Name:	GTE-Irwindale	Date Sampled:	12/10/92
Project Address:	5010 N . Azusa Cyn Rd. Irwindale, CA	Date Analyzed:	12/10/92
		Physical State:	Solid

Sample ID	Benzene EPA 8020 mg/kg	Toluene EPA 8020 mg/kg	Ethylbenzene EPA 8020 mg/kg	Xylenes, Total EPA 8020 mg/kg	TPH Extractable CA DHS mg/kg
B-1-2	ND	ND	ND	ND	ND
B-1-4	ND	ND	ND	ND	ND
Quantitation Limits mg/kg	0.0050	0.0050	0.0050	0.0050	10

ND; Not Detectable
The Laboratory Results are only a portion of the Laboratory Report.

TERRA TECH LABO Inc.
ENVIRONMENTAL TESTING

1920 E. Deere Ave., Suite 130
Santa Ana, CA 92705
Tel 714.757.7022
Fax 714.757.7274

Chain-Of-Custody Record

Client: CAMP DRESSER & MCKEE
Date: 12/10/92
Project Name: GTE - IRWINDALE
Client Project #: 2425-113-IR-FLD
Project Address: 5010 N. AZUSA CANYON RD
IRWINDALE CA
Project Contact: T. FANTINI
Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☒ Normal
- ☐ Mobile Lab

TTL Project #: 004212
Page: 1 of 1
Lab Use Only
Sample Condition as Received:
Chilled ☒ yes ☐ no
Sealed ☒ yes ☐ no

Analysis Requested

Sample ID	Sample Location	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A)	8020 BTEX	CA DHS TEPH							Number of Containers	Container/Comments
B-1-2	BORING B-1 DIESEL IS.	12/10/92	910	TT17696	S	X	X							1	BRASS SLEEVE
B-1-4 (M6)	↓ ↓ ↓ ↓	12/10/92	945	TT17697	S	X	X							1	8 oz. GLASS JAR

❶ Relinquished by (signature) Michael J. Gray	Date 12/10/92	❷ Received by (signature)	Date	2	Total Number of Containers
Company CAMP DRESSER & MCKEE	Time 1225	Company	Time	Additional Comments	
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature) Heather Freeman	Date 12/10/92		
Company	Time	Company TTL	Time 1225		

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ENVIRONMENTAL COMPLIANCE CA301HJ

REPORT OF SOIL GAS INVESTIGATION

GTE - Irwindale Plant Yard
5010 North Azusa Canyon Road
Irwindale, California
File No. 108.02012

November 9, 1995

Prepared for:

GTE of California
Environmental Compliance
P.O. Box 725
Chino, California 91708

Prepared by:

Camp Dresser & McKee Inc.
18881 Von Karman, Suite 650
Irvine, California 92715

CDM Project No.: 2425-119-IR-RPT

The information contained in this report has received appropriate technical review and approval. The proposed site investigation program represents professional judgment and is based upon readily available information and the interpretation of such data based on professional experience and background. This acknowledgment is made in lieu of all warranties, either expressed or implied.

Reviewed and Approved by

Michael G. Gray, R.G.
California Registered Geologist No. 6309

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Section 1
Introduction

On behalf of GTE of California (GTE), Camp Dresser & McKee Inc. (CDM) has prepared this report for soil gas investigation activities at the GTE Irwindale Plant Yard facility located at 5010 North Azusa Canyon Road in the City of Irwindale, California. This report describes the field activities associated with the installation of two clustered soil vapor probes and related vapor probe sampling and chemical analysis.

The soil gas investigation described herein was performed at the request of the Regional Water Quality Control Board - Los Angeles Region (RWQCB), as outlined in the RWQCB letter to GTE dated May 30, 1995 (Appendix A). The purpose of the soil gas investigation was to evaluate the potential presence of vapor phase volatile organic compounds (VOCs) in soils adjacent to the wastewater clarifier and septic tank in the vehicle service area. All field activities and soil gas sampling and chemical analyses were performed in accordance with the latest edition of the RWQCB publication entitled *"Requirements for Active Soil Gas Investigation,"* dated March 1994.

1.1 Site Description

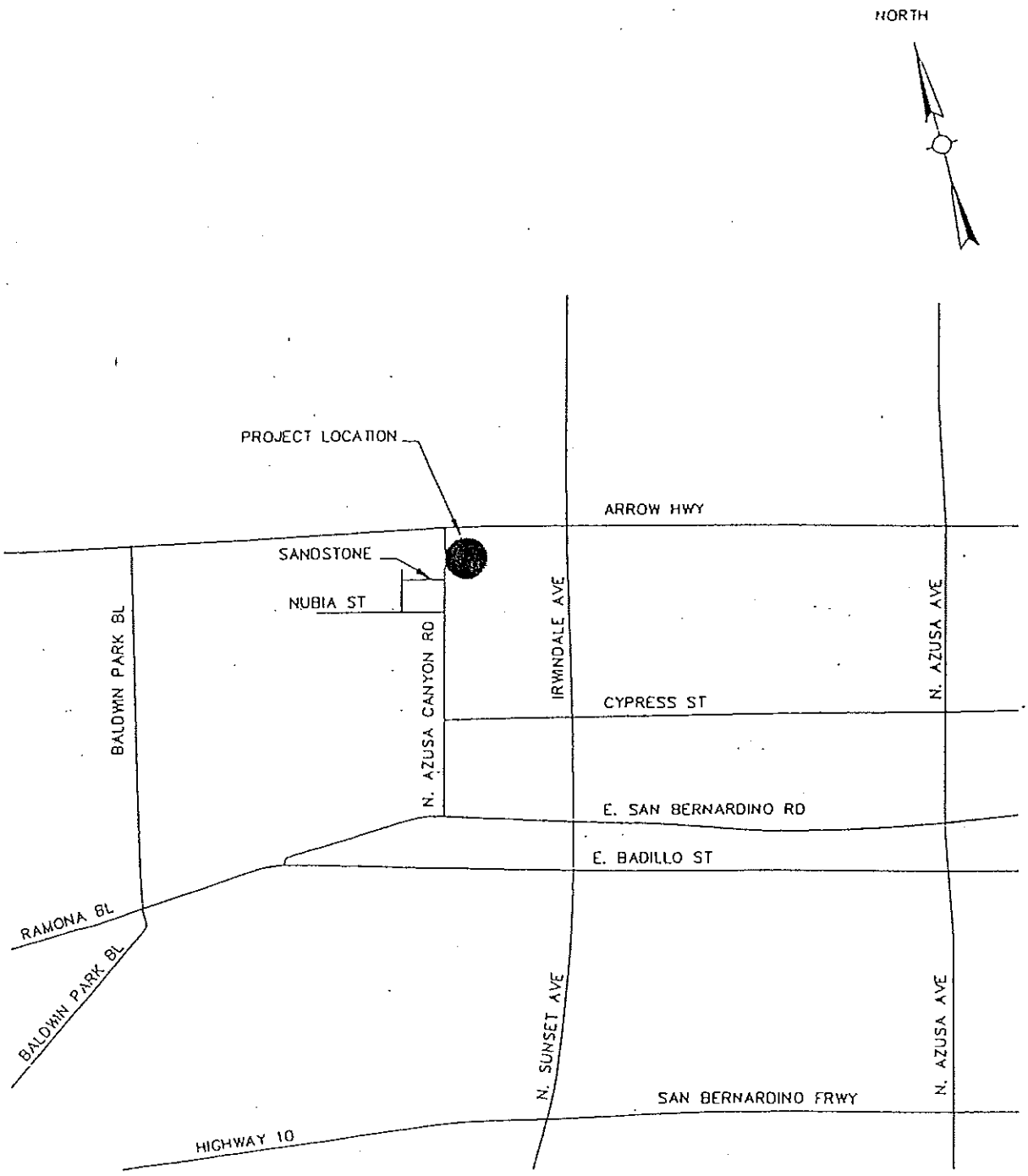
The site description contained within this section pertains to the immediate area in which the soil gas investigation was conducted. The GTE - Irwindale Plant Yard is located at 5010 North Azusa Canyon Road, southeast of the intersection of Arrow Highway and North Azusa Canyon Road, in the City of Irwindale, California (Figure 1). In general, operations conducted at the plant yard include maintenance of service vehicles assigned to the facility.

The vehicle wash area is located in the northeast corner of the property, adjacent to the vehicle maintenance garage (Figure 2). This area contains separate vehicle wash and steam-clean racks, a three-stage 1,200-gallon wastewater clarifier, a two-stage 900-gallon septic tank (abandoned in-place), a former brick-lined cesspool (removed), and a drum storage area that contains both hazardous and nonhazardous materials. The vehicle wash area is secured with a chain-link fence, except the drive-through portion of the vehicle wash rack. The vehicle wash rack consists of a covered, one-way, drive-through wash system and is used by GTE personnel to wash the facility vehicles on an as-needed basis. Concrete floor drains or sumps are located within the vehicle wash area (two sumps) and steam-clean (one sump) area. Wastewater collected in the sumps is conveyed to the clarifier via cast iron piping, prior to discharge into the sewer system. Asphalt paving covers the vehicle service area, except the vehicle wash and steam-clean areas, which are paved with concrete.

1.2 Background

1.2.1 RWQCB Site Inspection

On March 7, 1991, a visual inspection of the clarifier and related sumps was performed by the RWQCB. The inspection concluded that the steam cleaning and rinsewater/soap solution sumps appeared intact. However, concrete degradation was noted within the sump at the west end of the vehicle wash rack, and in grout between the clarifier lid and concrete riser block. Following the inspection, the RWQCB requested GTE to conduct a soil gas investigation in the vehicle wash area.



DRAWING NOT TO SCALE

GTE OF CALIFORNIA
IRWINDALE PLANT YARD

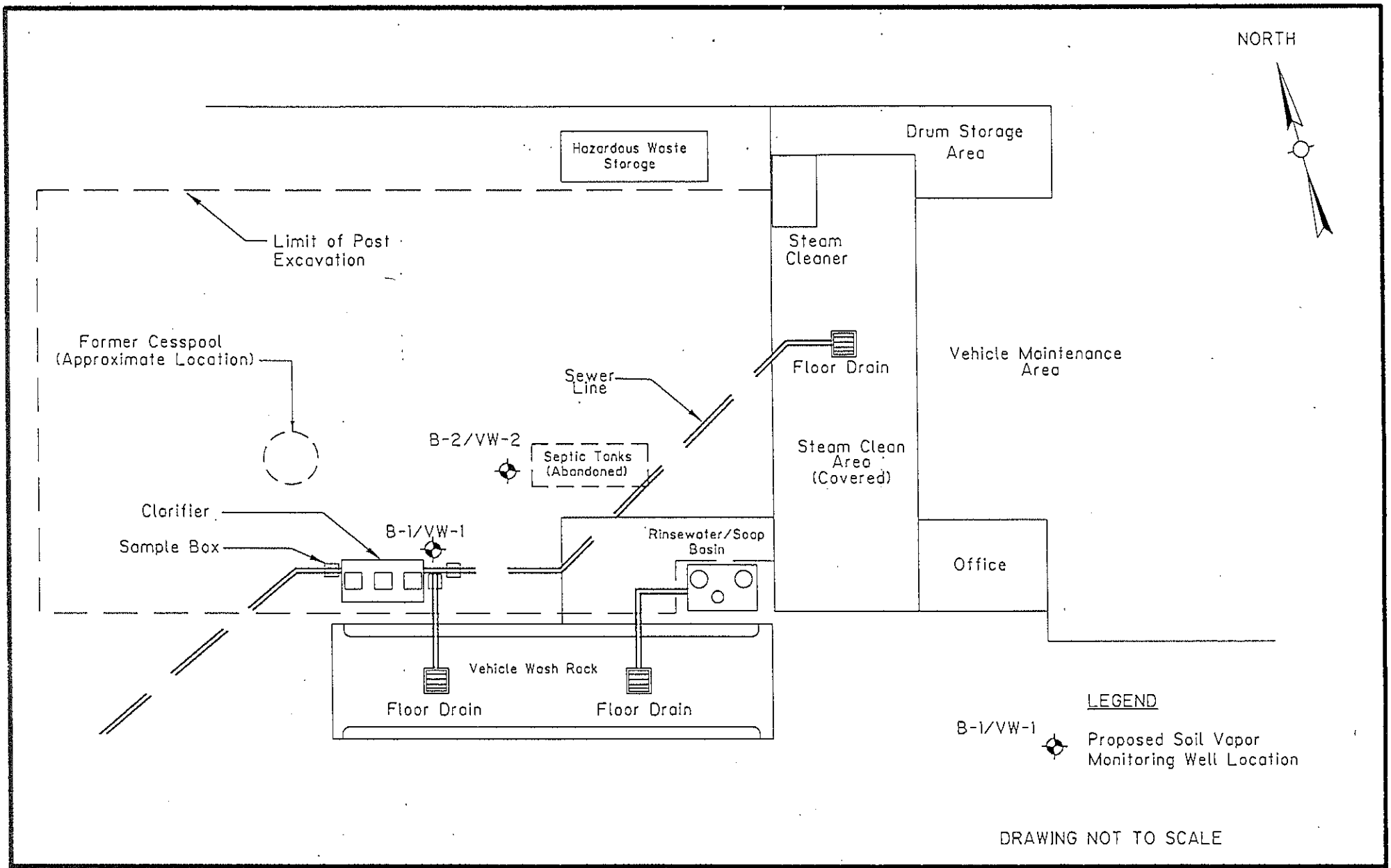
CDM
environmental engineers, scientists, planners, & management consultants

SITE VICINITY MAP

Figure No. 1

I:\PROJECTS\2425-000\19-IRV\CADD\FIGURE-1 06/27/95 13:59:17 0:00:27 R. Lopez

I:\PROJECTS\2425-100\119-IR\CADD\FIGURE-2 11/03/95 12:36:14 1:22:03 R. LOPEZ



GTE OF CALIFORNIA
IRWINDALE PLANT YARD

SITE MAP

CDM
environmental engineers, scientists, planners, & management consultants

Figure No. 2

1.2.2 Preliminary Site Assessment

In 1991, CDM performed a preliminary site assessment, consisting of a soil gas survey and soil sampling program, of the vehicle wash rack and steam-clean areas. A total of 22 soil gas samples were collected at discrete locations within the vicinity of the vehicle wash rack, steam-clean area and clarifier. In addition, four soil samples were collected for confirmatory laboratory analysis. The findings of the investigation documented elevated concentrations of total recoverable petroleum hydrocarbons (TRPH) within the soil and vapor phase VOCs in soil gas samples collected near the clarifier outlet.

1.2.3 Site Assessment and Soil Remediation

In 1992, CDM performed further site assessment and soil remediation activities within the area of the clarifier, including soil sampling in the former septic tank and cesspool area(s). During this phase of work, the former two-stage concrete clarifier was removed and replaced with a 1,200 gallon three-stage concrete clarifier in accordance with the Los Angeles County Department of Public Works requirements, plans and specifications. A secondary containment system consisting of a flexible membrane was installed around the clarifier. In-line discharge monitoring boxes were installed to allow monitoring of the separate waste streams from the vehicle wash rack and steam-clean facility.

Excavation and off-site disposal of 47 tons of petroleum hydrocarbon-contaminated soil was performed during soil remediation activities. Seven confirmation soil samples were specified by the on-site RWQCB inspector and submitted to a CA DHS-certified laboratory for chemical analyses. Confirmation soil samples were analyzed for halogenated volatile organic compounds (HVOCs) using EPA Method 8010, aromatic volatile organic compounds (AVOCs) using EPA Method 8020, and TRPH using EPA Method 418.1. In the clarifier area, the maximum measured TRPH concentration was 27 milligrams per kilogram (mg/kg). No detectable concentrations of HVOCs or AVOCs were measured in the clarifier area soil samples. Confirmation soil sample results from the backfill material placed within the septic tank structure at a depth of 10 feet below ground surface (bgs) detected the HVOCs chloromethane and 1,4-dichlorobenzene at concentrations of 11 mg/kg and 24 mg/kg, respectively. TRPH was not detected at a concentration at or above the instrument detection limit in this sample. Confirmation soil sample analytical laboratory results indicated that no detected chemical concentrations were above the applicable regulatory guidelines of 100 mg/kg for TRPH, ten times the Maximum Contaminant Level (MCL) or ten times the applicable Applied Action Level in drinking water for VOCs. Closure of the clarifier area at the Irwindale Plant Yard was requested.

1.2.4 RWQCB Issues

In a letter dated May 30, 1995 to GTE, the RWQCB requested that additional soil vapor sampling at the clarifier inlet and abandoned septic tank be performed prior to assigning the site a "No Further Action" designation. The additional soil gas investigation was required because low-level soil vapor concentrations of 1,1,1-trichloroethane (TCA) and tetrachloroethane (PCA) were detected at these structures and because the confirmation soil samples were collected in a glass jar. It should be noted that numerous attempts to collect soil samples using a driven sampler with brass sleeves were performed. However, due to the soil lithology (unconsolidated sand with gravel), sample recovery was not possible using this methodology. Therefore, confirmation samples were collected under the supervision of an RWQCB representative using a hand trowel, and then transferred into a glass jar.

1.3 Geologic/Hydrogeologic Conditions

1.3.1 Regional Conditions

The GTE - Irwindale Plant Yard is located in the San Gabriel Valley Groundwater Basin (Basin) in the eastern portion of Los Angeles County. The Basin is a structural basin of permeable alluvial deposits, underlain and surrounded by relatively impermeable rock. Alluvial deposits that fill the basin are Recent to Quaternary in age.

The Basin is defined by the following structural features: the Raymond Fault to the northwest; the line of contact between alluvium and bedrock of the San Gabriel Mountains to the north; the bedrock high between San Dimas and La Verne to the east; and the line of contact between alluvium and bedrock of the low hills along the southern periphery of the basin.

Unconsolidated and semi-consolidated nonmarine sediments (alluvium) of Recent and Pleistocene age are the principal water-bearing formations within the groundwater basin. Of lesser importance are marine sediments of probable Pleistocene age, and marine sediments of late Pliocene age. Sediments comprising the water-bearing formations in the basin are derived primarily from the erosion and subsequent deposition of the crystalline rocks of the San Gabriel Mountains and are predominantly coarse-grained (sand, gravel, and boulders). These formations extend to a maximum depth of more than 4,000 feet. The thickness of the alluvial deposits resulted from deposition combined with uplift in the mountains and subsidence in the valley.

Water-bearing sediments within the Basin vary in size depending on proximity to the sediment source area. In general, these sediments grade from coarse gravel and boulders, close to the mountain front, to fine- and medium-grained sand containing a larger amount of silt and clay, as the distance from the source area (San Gabriel Mountains) increases.

Groundwater in the San Gabriel Valley generally moves from the perimeter of the valley toward the Whittier Narrows. Therefore, the direction of regional groundwater flow near the site is to the southwest (CH2M HILL, 1993).

1.3.2 Local Conditions

The Alluvium (Qal) underlying the Irwindale Plant Yard consists of poorly stratified sand, cobbles, and boulders. The sediments are unconsolidated and dense, and the sand is light gray to buff in color and fine- to coarse-grained. The boulders range in size up to approximately 2 feet in diameter. During remedial activities, a relatively thin layer of artificial fill was observed overlying the alluvium (CDM 1992). This fill material consists of silty fine-grained sand and is approximately two to 3 feet in thickness across the site. No artificial fill was noted during installation of the clustered soil vapor probes.

Groundwater was not encountered during site activities.

Section 2
Purpose and Scope of Work

The purpose of the soil gas investigation program was to confirm the presence or absence of RWQCB-targeted soil gas vapors within the former wastewater clarifier and septic tank areas. All work was performed in general accordance with the CDM's approved work plan, dated September 5, 1995.

The scope of work consisted of the following major tasks:

- Perform a geophysical survey to clear the proposed soil gas monitoring probe locations for underground utilities or other obstructions.

- Perform two hollow-stem auger borings to a depth of 20 feet below ground surface (bgs) within the vehicle wash area. One boring was located adjacent to the septic tank, and the second boring was located adjacent to the wastewater clarifier. Soil samples were collected, as subsurface conditions allowed, for lithologic classification and on-site field screening for volatile organic compounds (VOCs) using portable field instrumentation.

- Construct two clustered soil gas monitoring wells; soil vapor probes were installed at depths of 10-feet and 20-feet within each boring.

- Perform "real-time" soil gas sample analysis for the analytes listed on the RWQCB target compound list (TCL) using an on-site California Department of Health Services (CA DHS)-certified mobile analytical laboratory.

- Prepare this soil gas investigation report describing the investigation results including analytical reports, boring logs/vapor well construction details, conclusions, and recommendations.

Section 3
Field Investigation

Field activities were performed during the period beginning September 6, 1995 through October 18, 1995. Site activities were conducted under the supervision of a California registered geologist. An on-site geologist supervised the subsurface geophysical investigation, soil borings and soil vapor sample collection activities. Field activities and observations were recorded in a field logbook. Site personnel were trained in accordance with the Code of Federal Regulations, Part 29 Section 1910.120 (29 CFR 1910.120) and California Administrative Code (CAC) Title 8, requirements.

All field activities were conducted in strict accordance with the RWQCB publication "Requirements for Active Soil Gas Investigation," dated March 1994, and CDM's approved "Work Plan for Soil Gas Investigation Program," dated September 5, 1995.

3.1 Regulatory Permitting and Notification

In accordance with California Assembly Bill No. 73, Underground Service Alert was notified a minimum of 48 hours prior to the initiation of intrusive activities on the site.

A subsurface geophysical survey was performed at the facility by Cable, Pipe & Leak Detection (CPL) of Spring Valley, California, on September 6, 1995. The purpose of the geophysical survey was to locate any underground utilities, associated water and electrical lines, or other potential subsurface interferences at the proposed soil vapor well locations. GTE facility representatives were on-site to identify potential areas of concern (i.e., underground obstructions, etc.) and approve boring locations.

3.2 Soil Boring Program

The soil boring program was performed on September 8, 1995, and consisted of drilling two hollow-stem auger borings. Prior to subsurface penetration with the drill rig, hand augering was performed to a depth of approximately three to five feet at each boring location to check for underground utilities. The borings were advanced by BC^2, of Fullerton, California, using a Central Mining Equipment (CME) Model 85 drill rig equipped with 8-inch outside diameter (O.D.) hollow-stem augers. As indicated in the approved work plan, both borings were proposed to a depth of 20 feet bgs. However, due to auger refusal, boring B-1/VW-1 was advance to a depth of 19 feet bgs. At this location, large rocks (i.e., boulders) were encountered and the drill rig was unable to advance the borehole. Although the proposed total depth of boring B-1/VW-1 was not obtained, the final depth of 19 feet bgs is considered suitable for its intended purpose.

Boring B-1/VW-1 was located adjacent to the wastewater clarifier inlet and boring B-2/VW-2 was located adjacent to the abandoned septic tank. The locations of the borings are shown on Figure 2. Clustered soil gas vapor probes were installed within each boring.

3.2.1 Field Screening Methods

A Thermo™ 580B photo ionization detector (PID), was used to monitor VOC concentrations in the work area (breathing zone) and soil sample headspace. In accordance with CDM's site-specific Health and Safety Plan, VOC concentrations were monitored during drilling activities. The calibration of the PID was performed using a 100 ppm isobutylene standard calibration gas at the beginning of each work day.

Headspace readings on the soil samples were obtained by placing a representative soil sample into a resealable plastic bag and allowing it to equilibrate for approximately two to five minutes. During this period, VOCs, if any, volatilize within the plastic bag airspace. The PID sample probe is then inserted into the plastic bag permitting the PID to measure any VOC vapors emitting from the sample. Ambient air (i.e., background) VOC concentrations were measured at 6.0 parts per million (ppm). Sample headspace readings for the soil samples recovered during drilling ranged from 6.0 ppm to 11.9 ppm.

3.2.2 Soil Sample Collection

Soil samples were collected from each boring at approximately 5-foot intervals using a modified California split-spoon sampler. Soil samples were collected for lithologic classification and for visual evaluation of contamination.

The split-spoon sampler was 18-inches in length with a 3-inch inside diameter. Because no soil samples were being retained for laboratory analysis, brass liners were not used in the sampler during sample collection. Sample material recovered in the sampler, if any, was used for lithologic classification including visual (e.g., discoloration, staining, etc.) and olfactory (e.g., organic odor, etc.) indications of contamination, and field VOC screening analyses.

Each sample was described in accordance with the Unified Soil Classification System (USCS). All field screening results and sample characteristics were recorded on field lithologic logs and in a permanently-bound field notebook. Copies of the boring log/vapor well details are included as Appendix B.

3.3 Soil Gas Investigation

Clustered soil vapor probes were constructed in each soil boring. The vapor wells were constructed in accordance with CDM's standard field procedures manual and RWQCB's requirements. Following the completion of drilling, vapor probes were installed at the 10-foot and 19-foot depth intervals in vapor well B-1/VW-1, and 10-foot and 20-foot depth intervals for B-2/VW-2. KVA Analytical Systems stainless steel vapor probes were installed in each vapor well. The probes were attached to ¼-inch outside diameter Teflon tubing. The Teflon tubing was fitted with a brass SWAGLOK fitting at the surface for connection to the mobile analytical laboratory. The sample tubing extended to the surface where each well was numbered and designated as shallow or deep. Each probe within the cluster was designated with an "A" or a "B" indicating the shallow or deep probe location, respectively. The vapor probe clusters were secured in a traffic-rated monitoring well box.

Each probe was positioned near the center of the borehole and was backfilled with sand (Medium Lonestar). The sand interval was approximately one-foot thick with the vapor probe situated in the

center on the interval. Following placement of the sand filter pack, a bentonite seal consisting of ¼-inch bentonite chips, was placed in approximately 1.5-foot lifts and allowed to hydrate sufficiently, prior to adding the next lift. A two-foot thick concrete cap was placed at the surface.

All vapor probe construction materials were installed through the hollow-stem auger as augers were removed from the borehole. The augers were removed from the borehole in five-foot sections so as not to pull the augers above the level of the annular fill materials to avoid collapse of the borehole. Each clustered vapor well was secured in a water tight, traffic-rated utility box at the completion of vapor well installation.

Section 4
Quality Assurance Plan

4.1 Equipment Decontamination

To minimize the possibility of cross-contamination between each soil boring, all drilling and sample collection equipment was properly decontaminated in accordance with established procedures. The sampling equipment was placed in a soapy water (Alconox™) wash and thoroughly scrubbed with stiff brushes. Equipment was then rinsed with tap water followed by a double deionized water rinse. All down-hole drilling equipment was steam-cleaned before drilling and after each use. Decontamination water was stored in DOT-approved 55-gallon steel drums, pending the receipt of the predisposal analyses and off-site disposal, if necessary.

4.2 Sample Handling

4.2.1 Soil Samples

The soil samples were collected using a split-spoon sampler for lithologic logging and headspace screening. No undisturbed soil samples were submitted to the analytical laboratory for chemical analysis. Portions of the recovered soil sample were placed within a plastic resealable bag for VOC headspace analysis. The remaining sample was used for lithologic logging.

Following the completion of drilling and vapor probe installation, soil samples were collected from the drill cuttings for waste classification. The samples were submitted to Associated Laboratories, in Orange, California for waste disposal classification.

4.2.2 Soil Vapor Samples

Soil vapor samples were collected from the vapor probes through the ¼-inch O.D. Teflon sample tubing. Samples were collected and analyzed on-site using a mobile analytical laboratory in accordance with established RWQCB requirements.

4.2.3 Sample Identification

Each vapor probe was assigned a distinct identification number. The sample identification number included the following information:

- Site name.
- Unique identification number indicating soil vapor number and depth of vapor probe (e.g., VW-1A and VW-1B, A and B designating shallow and deep probe depths, respectively).
- Sample collection date and time.
- Analytical laboratory and sampler's name.
- Analytical method.

4.2.4 Chain-of-Custody (COC) Documentation

The COC form includes the following information:

- Site name and address.

- Signatures of persons involved in the chain-of-custody possession inclusive of dates of possession.
- Date and time of collection.
- Address of analytical laboratory.
- Sample identification.
- Description and condition of container.
- Preservative used.
- Turn-around time.
- Sample type.
- Analyses required.

4.3 Laboratory QA/QC

A mobile analytical laboratory from Hydro Geo Chem, Inc. (HGC) of Huntington Beach, California performed the soil gas sample analyses. HGC is a CA DHS-certified analytical laboratory with approved internal Quality Assurance/Quality Control (QA/QC) procedures to satisfy RWQCB soil gas investigation protocols. Key laboratory QC elements typically include calibration check samples, matrix-spiked samples, duplicates, replicates and other indicators. Soil gas analyses conducted by HGC were performed in strict accordance with RWQCB guidelines.

Section 5
Analytical Laboratory Results

As requested, all soil gas samples were analyzed using an on-site mobile analytical laboratory in accordance with RWQCB guidelines. Each vapor sample was analyzed for the following RWQCB TCL analytes:

- dichlorodifluoromethane;
- vinyl chloride;
- chloroethane;
- trichlorofluoromethane;
- dichloromethane;
- trans-1,2-dichloroethene
- 1,1-dichloroethane;
- chloroform;
- 1,1,1-trichloroethane;
- carbon tetrachloride;
- cis-1,2-dichloroethene;
- trichloroethene;
- 1,1,2-trichloroethane;
- tetrachloroethene;
- 1,1,1,2-tetrachloroethane;
- 1,1,2,2-tetrachloroethane;
- 1,1-dichloroethene;
- benzene;
- toluene;
- ethyl benzene;
- m-,p-xylene;
- o-xylene;
- 1,1,2-trichlorotrifluoroethane.

Based on the analytical laboratory results, none of the aforementioned RWQCB TCL analytes were detected at concentrations at or above the laboratory's practical quantitation limit of 1 microgram per liter (µg/l). The soil gas analytical results are summarized in Table 1. Complete laboratory reports and COC documentation are included as Appendix C.

TABLE 1

Summary of Soil Gas Analytical Results
GTE - Irwindale Plant Yard
Irwindale, California

Analyte	Units ug/l	Sample Number						
		VW-1A-V1 10/18/95	VW-1A-V2 10/18/95	VW-1A-V3 10/18/95	VW-1B 10/18/95	VW-1C 10/18/95	VW-2A 10/18/95	VW-2B 10/18/95
Dichlorodifluoromethane	1	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	1	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1	ND	ND	ND	ND	ND	ND	ND
Dichloromethane	1	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1	ND	ND	ND	ND	ND	ND	ND
Chloroform	1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	1	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	1	ND	ND	ND	ND	ND	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND
Toluene	1	ND	ND	ND	ND	ND	ND	ND
Ethyl Benzene	1	ND	ND	ND	ND	ND	ND	ND
m,p-Xylene	1	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethene	1	ND	ND	ND	ND	ND	ND	ND

Notes:

1. ug/l - micrograms per liter
2. ND - Not detected at concentrations at or above the laboratory's practical quantitation limit (refer to analytical report).

Section 6
Conclusions and Recommendations

During the period beginning September 6, 1995 through October 18, 1995, CDM conducted soil gas investigation activities at the GTE Irwindale Plant Yard. Two clustered soil vapor monitoring wells were constructed. Soil gas collected from the shallow and deep vapor probes were sampled and analyzed in accordance with RWQCB requirements.

Results of the laboratory analysis indicate no detectable concentrations of RWQCB TLC analytes in any of the vapor samples. Additionally, no indications of soil contamination were observed during drilling.

Based on the herein-enclosed information, CDM requests that the RWQCB grant closure of the vehicle wash facility at the GTE Irwindale Plant Yard.

Section 7
References

California Department of Water Resources. *California Well Standards - Bulletin 74-90,* January 1990.

California Regional Water Quality Control Board - Los Angeles Region. *Requirements for Active Soil Gas Investigation,* March 1994.

Camp Dresser & McKee Inc. *Soil Gas Study Report, GTE Irwindale Site, Irwindale, California,* August 1991.

Camp Dresser & McKee Inc. *Site Assessment and Remediation Closure Report Sand and Grease Interceptor, GTE - Irwindale Plant Yard, Irwindale, California,* November 24, 1992.

Camp Dresser & McKee Inc. *Work Plan for Soil Gas Investigation, GTE - Irwindale Plant Yard, Irwindale, California,* November 24, 1992

CH2M Hill. *Remedial Activities at Selected Uncontrolled Hazardous Waste Sites in the Zone of Regions IX and X, Baldwin Park Operable Unit, Feasibility Study Report, San Gabriel Basin, Los Angeles County, California, Environmental Protection Agency Contract No. 68-W9-0031,* April 2, 1993.

Appendix A
Agency Correspondence

STATE OF CALIFORNIA—ENVIRONMENTAL PROTECTION AGENCY

PETE WILSON, Governor

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500
FAX: (213) 266-7600

August 22, 1995

Ms. Kim D. Bray
GTE California Incorporated
Post Office Box 725
Chino, California 91708

WELL INVESTIGATION PROGRAM - WORK PLAN APPROVAL FOR SOIL VAPOR INVESTIGATION AT THE GTE IRWINDALE PLANT YARD (CA301HJ), LOCATED AT 5010 NORTH AZUSA CANYON ROAD, IRWINDALE, CA (FILE NO. 108.0212)

Regional Board staff have reviewed the work plan dated August 3, 1995, and prepared by your consultants, Camp Dresser & McKee, for the soil vapor investigation at the aforementioned site. We have no objection to the work being conducted as described in this work plan with the following comments:

Vapor wells are being installed, therefore the waiting period between installation and sampling should be one month, rather than the two weeks as stated in your work plan. This will allow the vapor in the subsurface to approach equilibrium;

The use of PVC probes, rather than stainless steel, is discouraged. If re-sampling of the probes is required at a later date, the adsorption of contaminants by the PVC may alter the results;

The use of polyethylene tubing instead of Tygon or Teflon is also discouraged. Again adsorption of contaminants has been shown to be higher for polyethylene, and the small cost savings for four shallow probes, when compared to the drilling and analysis costs are not justified;

Sampling and analysis must follow the current guidelines (REQUIREMENTS FOR ACTIVE SOIL GAS INVESTIGATION - MARCH 1994), including the purge volume versus concentration test; and,

While the normal protocol for sampling vapor wells includes two rounds of sampling, one and two months after installation, we will put the second round into abeyance. However, if contaminant concentrations greater than 10 µg/l are detected during the first round, the second round of sampling will be required after the additional one month waiting period.

Three copies of a report detailing the results of this work are due to this office by October 20, 1995. Prior to commencement of work, please notify Board staff so that we may schedule a representative to be present.

Please contact Mark Smythe at (213) 266-7537 if you have any questions, and address all correspondence to his attention.

ARTHUR G. HEATH, Ph.D.
Environmental Specialist IV

cc: Ms. Bella Dizon, USEPA, Region IX
Mr. Michael G. Gray, Camp Dresser & McKee

FILE - 425-117-12

STATE OF CALIFORNIA—ENVIRONMENTAL PROTECTION AGENCY PETE WILSON, Governor

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500
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Post-it® Fax Note 7671	Date 6/5/95	# of pages ▶ 3
To MIKE GRAY	From TOM GANDOLFI	
Co./Dept.	Co.	
Phone #	Phone #	
Fax #	Fax #	

May 30, 1995

Ms. Jackie D. McCormick
GTE California Inc.
P.O. Box 725
Chino, CA 91708

WELL INVESTIGATION PROGRAM - SOIL VAPOR MONITORING WELL FOR GTE IRWINDALE PLANT YARD LOCATED AT 5010 NORTH AZUSA CANYON ROAD, IRWINDALE, CA 91706 (FILE NO. 108.0212)

Regional Board staff has reviewed the past investigations at the aforementioned facility. These investigations include a soil vapor survey conducted during June 1991 and the excavation of subsurface structures in the vehicle wash area including: the sand and grease interceptor (clarifier), the septic tank, and two floor drains.

The soil vapor survey indicated the presence of 1,1,1-trichloroethane (TCA) and tetrachloroethylene (PCE) to a depth of eight feet (maximum probe depth) in the vehicle wash area. TCA was present in all vapor samples collected at the site and PCE was tentatively identified in several key locations. The maximum reported concentration of TCA was at 1.81 µg/l at 8 feet below ground surface (bgs) at the clarifier inlet. Concentrations of PCE were never quantified.

During the excavation of the vehicle wash area, confirmation soil samples analyzed for volatile organic compounds (VOCs) were for the most part, non-detect at 1 ppb. However sample lithology (unconsolidated sands and gravels), combined with sample collection methods (using a trowel to transfer soil to glass jars), would probably have resulted in volatilization of any VOCs prior to analysis.

Therefore, before this site can be assigned a "No Further Action" designation, the results of the investigations of the vehicle wash area must be confirmed.

In order to confirm the absence of contamination below the former clarifier and septic tank, you are required to submit a work plan which details the installation and sampling of semi-permanent vapor probes in these areas. The work plan must address all of the requirements in the enclosed current guidelines (REQUIREMENTS FOR ACTIVE SOIL GAS INVESTIGATION - MARCH 1993). The probes must be installed at 10 feet and 20 feet bgs adjacent to the former

clarifier inlet (soil gas probe SG-06 from the 6/91 investigation) and adjacent to the former septic tank (soil vapor probe SG-08 from the 6/91 investigation).

If the required depths cannot be achieved due to regional lithology, or if significant concentrations of chlorinated VOCs are detected, nested multi-level vapor wells may be required.

Three copies of a work plan which adequately address the above requirements are due to this Regional Board by June 30, 1995. No work should be initiated until staff has reviewed and approved your work plan.

Please contact Mark Smythe at (213) 266-7537 if you have any questions, and address all correspondence to his attention.

ARTHUR G. HEATH, Ph.D.
Environmental Specialist IV

cc: Mr. Wayne Praskins, USEPA, Region IX
Mr. Thomas E. Fantini, Camp Dresser & McKee, Inc.

Enclosure

Appendix B
Soil Boring Logs/Vapor Well Details

Boring Log and Sampling Record

Client GTE of California

Site IRWINDALE PLANT YARD Job No. 2425-119-IR-FLD Boring/Well No. B-1/VW-1

Drill Contractor BC2 Drill Method Hollow Stem Auger Logged By Leslie Dybel

Drilling Started 9/8/95 Ended 9/8/95 Elevation & Datum _____ Total Depth 19.0 Depth To Water _____

DEPTH FEET	SAMPLE NO.	BLOWS/FT	FID ppm	PID ppm	USCS	Lithology	DESCRIPTION	Well Construction Detail	ELEVATION FEET
					SP SM		Asphalt 4" thick. POORLY GRADED SAND WITH SILT AND GRAVEL, light yellowish brown (2.5Y6/3); 50% fine sand, occasional coarse grains, poorly graded; 40% gravel, maximum diameter 6 inches, rounded to subrounded; 10% silt; friable, very dense, dry, no odor.	Concrete encased well box	
5	B1-01-4.5-5'	80		6.0	GP GM		POORLY GRADED GRAVEL WITH SILT AND SAND, light yellowish brown (2.5Y6/3); 70% gravel, maximum diameter 6 inches, rounded to subrounded; 20% fine sand, occasional coarse grains, poorly graded; 10% silt; friable, very dense, dry, no odor.	Hydrated bentonite chips	
10	B1-02-9.5-10'	50 for 6"		6.4			As above.	Medium sand; Probe "A"	
15	B1-03-14.5-15'	50 for 6"		7.1			As above.	Hydrated bentonite chips; Medium sand	
20	B1-04-18.5-19'	50 for 6"		4.2			As above. Refusal at 19 feet due to boulders. Total Depth 19 feet. No groundwater encountered during drilling. Vapor probes constructed as shown in detail.	Probe "B"	
25									
30									

CDM
environmental engineers, scientists, planners, & management consultants

Remarks Boring located four from clarifier inlet.

See key sheet for symbols and abbreviations used above.

Boring Log and Sampling Record

Client GTE of California

Site IRWINDALE PLANT YARD Job No. 2425-119-IR-FLD Boring/Well No. B-2/VW-2

Drill Contractor BC2 Drill Method Hollow Stem Auger Logged By Leslie Dybel

Drilling Started 9/8/95 Ended 9/8/95 Elevation & Datum _____ Total Depth 20.0 Depth To Water _____

DEPTH FEET	SAMPLE NO.	BLOWS/FT	FID ppm	PID ppm	USCS	Lithology	DESCRIPTION	Well Construction Detail	ELEVATION FEET
					SP SM		Asphalt 4" thick. POORLY GRADED SAND WITH SILT AND GRAVEL, light yellowish brown (2.5Y6/3); 50% fine sand, occasional coarse grains, poorly graded; 40% gravel, maximum diameter 4.5 inches, rounded to subrounded; 10% silt; friable, very dense, dry, no odor.	Concrete encased well box	
5				11.1	GP GM		POORLY GRADED GRAVEL WITH SAND AND SILT, light yellowish brown (2.5Y6/3); 70% gravel, maximum diameter 4.5 inches, rounded to subrounded; 20% fine sand, occasional coarse grains, poorly graded; 10% silt, friable, very dense, dry, no odor.	Hydrated bentonite chips	
10	B2-01-9.5-10'	50 for 6"		11.9			As above.	Probe "A" Medium sand	
15	B2-02-14.5-15'	50 for 6"		10.8			As above.	Hydrated bentonite chips	
20	B2-03-19.5-20'	50 for 6"		10.0			As above. Total Depth 20 feet. No groundwater encountered during drilling. Vapor probes constructed as shown in detail.	Medium sand Probe "B"	
25									
30									

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environmental engineers, scientists, planners, & management consultants

Remarks Boring located three feet from septic tank.

See key sheet for symbols and abbreviations used above.

REPORT
ENVIRONMENTAL INVESTIGATION RELATED TO THE REMOVAL OF TWO UNDERGROUND STORAGE TANKS

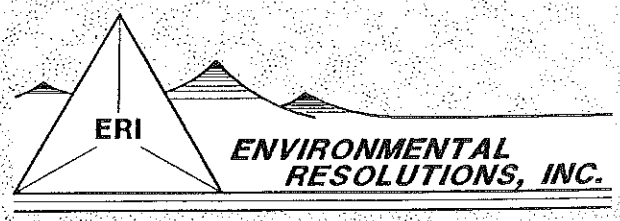
GTE - IRWINDALE PLANT YARD
5010 NORTH AZUSA CANYON ROAD
IRWINDALE, CALIFORNIA

ERI JOB NO. 157432.R01
LACDPW FILE NO. 003755-003882 R/C 3S
CLOSURE PERMIT NO. 150480

August 7, 1996

Prepared for

GTE CALIFORNIA
2849 FICUS STREET
POMONA, CALIFORNIA



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REPORT
ENVIRONMENTAL INVESTIGATION
RELATED TO THE REMOVAL OF TWO
UNDERGROUND STORAGE TANKS
at
GTE - Irwindale Plant Yard
5010 North Azusa Canyon Road
Irwindale, California

INTRODUCTION

On behalf of GTE California, Environmental Resolutions, Inc. (ERI) conducted a subsurface investigation to determine if hydrocarbons were present in the soil beneath one 1,000-gallon, single-walled steel waste-oil underground storage tank (UST), one 12,000-gallon, double-walled composit unleaded gasoline UST, one gasoline dispenser island, and the associated double-walled piping removed from the above-referenced site. ERI's field work during this investigation included: monitoring air for volatile organic compounds (VOCs) during soil excavation; observing the removal of the two tanks, the dispenser island, and the associated pipelines; directing soil segregation; inspecting the two removed tanks for signs of leakage; and collecting and analyzing soil samples from the two tank excavations and dispenser island area. This report describes the work elements associated with the tank removals and summarizes the results of the laboratory analyses.

SITE DESCRIPTION

The site is located at 5010 North Azusa Canyon Road between Nubia Street and Sandstone Street in Irwindale, California (Plate P-1). The site consists of a GTE garage building, an office building, a car wash, a parking lot, and a refueling area for GTE service vehicles. The site is mostly paved, fenced, and located on the eastern side of North Azusa Canyon Road.

The 12,000-gallon double-walled unleaded gasoline plasteel composit UST was removed and replaced with a 12,000-gallon tank of double-walled plasteel composit construction as a planned facility upgrade. The 1,000-gallon waste-oil steel UST removed from the site was replaced with an above ground waste oil / new oil system. The unleaded gasoline tank, located in the northwestern area of the facility, south of the GTE garage building, was used to provide fuel for the GTE service vehicles at the facility. The waste-oil tank, located adjacent to and south of the garage building, was used to store waste-oil accumulated from maintenance work performed on the GTE service vehicles. The former locations of the two tanks and other site features are shown on Plate P-2. The following are descriptions of the two tanks and their associated piping:

Tanks

Tank Capacity:	12,000 gallons	1,000 gallons
Manufacturer:	Joor	Unknown
Product:	Unleaded Gasoline	Waste Oil
Construction:	Double-walled, plasteel	Single-walled, steel
Dimensions:	7.92-foot diameter by 32-foot length	3.79-foot diameter by 12-foot length
Installed:	1988	1967
U.L. Number	U.L. #6044	U.L. #D196473

Other: The unleaded gasoline tank had cathodic protection, observed in good condition, with a turbine system and one 2" vent line. Leak detection consisted of TLS 250 and LA/04 tank monitoring systems. Waste-oil tank was corroded without any visible signs of leakage or holes.

Pipelines

The secondary containment on the supply line was constructed of 2-inch diameter black steel pipe and enclosed in a fiberglass wrap. The 2-inch diameter vent line and the 3-inch diameter risers on the tank were all protected by 20-mil plastic wrap. The pipelines appeared to be in good condition with no visual evidence of leakage. A gravity feed supply pipeline was associated with the waste-oil tank.

REGIONAL GEOLOGY AND HYDROGEOLOGY

The site is located approximately 0.5 miles southeast of the Santa Fe Flood Control Basin and 0.8 miles northwest of Big Dalton Wash. Topographically, the site is at an elevation of approximately 450 feet above mean sea level (MSL) and slopes to the southwest. Depth to groundwater in the area of the site ranges from approximately 150 to 200 feet below ground surface (bgs), or an elevation between 250 to 300 feet above MSL. During tank removal activities, groundwater was not encountered by ERI.

The site is in the northern most portion of the Peninsular Ranges Geomorphic Province in the San Gabriel Valley. The site lies on the historical flood plain of the San Gabriel River which is located approximately 2.1 miles to the west of the site. The shallow soils underlying the site have been mapped as Quaternary age sand and gravels deposited by the ancestral San Gabriel River (USGS, 1983) and alluvial fans from the nearby San Gabriel Mountains.

Groundwater recharge in the area surrounding the site is provided by the Santa Fe Flood Control Basin, Big Dalton Wash, and nearby commercial gravel pits. Commercial gravel pits are located within 0.2 miles to the west and northeast of the site.

The Los Angeles County Department of Public Works (LACDPW), Hydrologic Records Division, was contacted to obtain information on groundwater conditions in the area surrounding the site. According to the LACDPW the site is located near three groundwater wells. The closest well (Well No. 3050) is located approximately 0.4 miles due south near the intersection of Los Angeles Avenue and North Azusa Canyon Road. The next closest well (Well No. 3061) is located approximately 0.7

miles to the southeast near the intersection of San Bernardino Road and Sunset Avenue. The furthest well (Well No. 4289) is located 1.3 miles to the northeast at the intersection of Lark Ellen Avenue and Arrow Highway. The depths to groundwater in the wells were last measured in April 1995. The depth to water and elevation above MSL in the wells was as follows: 1) Well No. 3050 at a depth of 150.65 feet bgs [259.65 feet above MSL], 2) Well No. 3061 at a depth of 165.0 feet bgs [255.7 feet above MSL], and 3) Well No. 4289 at a depth of 207.6 feet bgs [263.4 feet above MSL]. The depth to groundwater beneath the site and the direction of regional groundwater flow were not available from the LACDPW. However, based upon the limited gauging data available from the LACDPW, the estimated depth to groundwater beneath the site is approximately 180 feet bgs and the local groundwater flow direction is apparently in a southwesterly direction toward the nearby San Gabriel River.

FIELD INVESTIGATION

Field work for this investigation included: 1) preparing and implementing a site safety plan; 2) monitoring air for VOCs during soil excavation and related activities; 3) observing the removal of the two tanks, the gasoline dispenser island, and the associated pipelines; 4) directing soil segregation; 5) inspecting the two removed tanks for signs of leakage, holes, or pitting; and 6) collecting and analyzing soil samples from the two excavations and dispenser island area.

Site Safety Plan

ERI conducted field work at the site under ERI's Site Safety Plan dated December 27, 1995. The site safety plan addressed the potential health hazards that might be encountered at the worksite and described the basic safety procedures to follow while performing work at the site. The plan applied

to ERI personnel. Daily tailgate safety meetings were conducted by the Site Safety Officer, an ERI staff member, and GTE's contractor representative prior to the start of work. A copy of the plan was available on site during tank removal and related activities.

Air Monitoring

During excavation work between January 17 to 19, 1996, ERI performed air monitoring for VOCs in accordance with South Coast Air Quality Management District (SCAQMD) Rule 1166. Measurements of VOC concentrations were made using an organic vapor meter (OVM) Gastechtor Model 1314.

At the beginning of the workday, the OVM was calibrated according to the manufacturer's specifications using a 50 parts per million (ppm) hexane gas-standard. Air monitoring was conducted by placing the inlet tip of the OVM no more than 3 inches above the freshly excavated soil. Readings were taken for every bucket load of soil removed by the backhoe no longer than 3 minutes after each load was removed. The highest VOC readings were reported for each 15-minute interval. Wind speed and direction were monitored during the soil excavation. VOC concentrations measured with the OVM during tank excavation operations did not exceed 50 ppm by volume (ppmv). SCAQMD Rule 1166 monitoring records are on file at ERI's Irvine, California, office.

Soil Sampling Procedures

Samples obtained during excavation activities were collected in accordance with sampling guidelines and procedures as outlined in ERI's Standard Operating Procedures Manual for collecting soil

samples. Soil samples were collected by Mr. Robert Weinberger of ERI under the supervision of Mr. Steve M. Zigan of ERI (R.G. 4333) .

Most samples were collected with the aid of a backhoe. Samples were collected from native soils by pushing a brass sample tube into the soils contained on or between the teeth of the backhoe bucket. Other soil samples were collected by hand-augering and then using a slide hammer sampler and sample tube to obtain a sample. Prior to and between each sampling, the hand auger and slide hammer sampler were washed in a Liquinox wash solution, triple-rinsed, and air-dried to reduce the chance of cross-contamination between samples. Following collection, each sample was immediately sealed with Teflon tape and plastic end caps, labeled, and placed in iced storage at 4°C. Samples were then analyzed by the on-site State-certified mobile laboratory.

Tank Removal and Inspection

The 12,000-gallon UST, the dispenser island, and the associated pipelines were removed on January 19, 1996. The 1,000-gallon waste-oil UST was also removed on January 19, 1996. Tank removal operations were conducted in accordance with the requirements stipulated in the Los Angeles County Fire Department's (LACFD) tank removal permit. The outer surface of the tanks were inspected by an ERI representative for signs of leakage, holes, pitting, or areas of weakness; none were observed on the 12,000-gallon tank; corrosion of the outside of the 1,000-gallon tank was observed with no signs of leakage. Photographs are included in Appendix A. Permitting, excavation, tank rinsing, and tank removal were conducted by Petroleum Contractors, Inc. (PCI, Long Beach, California) and their subcontractors. The rinsate was transported under hazardous waste manifest by G.V. Adams Services, Inc. (Gardena, California) and recycled at the DeMenno/Kerdoon facility in Compton,

California. After triple-rinsing and certification by Thomas D. Beck of Harbor Testing Laboratory, the 12,000-gallon tank was transported by G.V. Adams to Joor in Escondido, California, for re-certification and the 1,000-gallon tank was transported to L.A. Industrial Services in Los Angeles for destruction. Tank removal operations were witnessed by Inspector Elden Goodenow of the LACDPW, Inspector Gerardo Cantu of the LACFD, Mr. William Scharpenberg of Tait & Associates, Inc., and Mr. Weinberger of ERI. Copies of the LACFD and LACDPW tank removal permits, the hazardous waste manifest for recycling of the rinsate, the marine chemist certificate, the letter of tank re-certification, and the tank destruction certificate are included in Appendix B.

Soil Inspection, Excavation, and Sampling: Gasoline Tank

Fill soils excavated from the tank pit of the gasoline tank consisted of silty sand, sand, and pea-gravel to approximately 11 feet below ground surface (bgs). The native soils exposed in the walls of the tank pit excavation consisted of silty fine- to coarse-grained sand and sand with cobbles and boulders to the maximum depth excavated of 13 feet bgs.

On January 19, 1996, twelve (12) soil samples were obtained by ERI following the excavation and removal of the former tank and the dispenser island. Samples were collected from the bucket of the backhoe under the direction of Inspector Goodenow. Samples S-2-PL1 and S-2-PL2 were collected at a depth of approximately 2 feet bgs from beneath the gasoline product pipeline connecting the dispenser island and UST. Samples S-3-D1N, S-3-D1E, S-3-D1W, and S-3-D1S were collected from beneath the dispenser island at a depth of approximately 3 feet bgs, respectively, and samples S-6-T1N, S-6-T1E, S-6-T1W, and S-6-T1S were collected at a depth of approximately 6 feet bgs from the northern, eastern, western, and southern ends, respectively, of the tank pit for the gasoline UST.

Two (2) additional samples, S-13-T1 BOT N and S-13-T1 BOT S, were collected at a depth of approximately 13 feet bgs from the northern and southern ends, respectively, of the tank excavation bottom. Sample locations are shown on Plate P-2.

Soil Inspection, Excavation, and Sampling: Waste-Oil Tank

Fill soils excavated from the tank pit of the waste-oil tank consisted of silty sand, sand, and pea-gravel to approximately 8 feet bgs. The native soils exposed in the walls of the tank pit excavation were similar to those observed in the gasoline tank pit excavation. The maximum depth excavated in the waste-oil tank pit was approximately 9 feet bgs.

On January 19, 1996, two (2) soil samples were obtained by ERI following the excavation and removal of the former tank. Samples S-9-T2E and S-9-T2W were collected at a depth of approximately 9 feet bgs from the eastern and western ends, respectively, of the tank pit for the waste-oil UST. Seven (7) samples were also collected from the four (4) soil stockpiles on site. Stockpiles SP1 through SP4 and soil sample locations are shown on Plate P-2.

SOIL BACKFILL, COMPACTION, AND RECYCLING

On January 25, 1996 backfilling of the excavation for the former unleaded gasoline and product pipeline trench were backfilled with the clean stockpiled soil and imported, clean, washed sand to the degree necessary to facilitate the new installation. The waste-oil tank excavation was backfilled with the clean stockpiled soils and imported, clean, washed sand from the bottom of the excavation to near surface grade. Compaction grading and backfilling were performed by PCI.

Approximately 64 tons of hydrocarbon-impacted soil were transported under non-hazardous waste manifest by Ron Talbott Trucking (Norco, California) to TPS Technologies' permitted facility in Adelanto, California, for thermal remediation and recycling. Hydrocarbon-impacted soils were removed from the tank excavations and the dispenser island as part of the tank removal. Copies of the TPS Technologies Soil Recycling non-hazardous waste manifests and weight tickets are provided in Appendix C.

LABORATORY ANALYSES

Soil samples were submitted to Associated Laboratories (Orange, California) on-site mobile lab for analysis. Samples from the waste-oil tank were analyzed for total recoverable petroleum hydrocarbons (TRPH) by Environmental Protection Agency (EPA) Method 418.1. Samples from the unleaded gasoline tank were analyzed for total petroleum hydrocarbons (TPH) as gasoline by EPA Method 8015 Modified, and for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8020. Associated Laboratories is a GTE-approved Department of Health Services (DHS) State-certified laboratory for the specified analyses. Sample analytical results are summarized in Table 1. The laboratory reports and chain-of-custody records are presented in Appendix D.

OBSERVATIONS AND CONCLUSIONS

Based on field observations made during the completion of the two tank removals, the removal of the dispenser island, and results of the laboratory analyses of soil samples collected from the aforementioned areas, ERI makes the following observations:

- No obvious holes or pitting were observed in the USTs after removal.
- TRPH, TPH, and BTEX were detected in samples collected from the tank excavations and dispenser island.

- Hydrocarbon-impacted soils were excavated and removed from the tank excavations and the dispenser island as part of the tank removal.
- The tank excavations for the former gasoline tank and waste-oil tank were backfilled with the clean stockpiled soil and imported fill material.
- Approximately 64 tons of hydrocarbon-impacted soil were transported to TPS Technologies' permitted facility in Adelanto for thermal remediation and recycling.
- The gasoline tank was transported to Joor's facility in Escondido for re-certification. The waste-oil tank was transported to L.A. Industrial Services in Los Angeles for destruction.
- In ERI's opinion, based on the findings of the two tank removals and related soil excavation activities in the gasoline dispenser island area, no further work is necessary with regard to soils in the areas of the 1,000-gallon waste-oil tank and the 12,000-gallon unleaded gasoline tank.

LIMITATIONS

This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. This investigation was conducted solely for the purpose of evaluating environmental conditions of the soil with respect to hydrocarbon concentrations at the subject site. No soil engineering or geotechnical implications are stated or should be inferred. The evaluation of the geologic conditions at the site for the purpose of this investigation is made from a limited number of observation points. Subsurface conditions may vary away from the data points available. Additional work, including further subsurface investigations, can reduce the inherent uncertainties associated with this type of investigation.

REFERENCES

Norris, Robert M. and Webb, Robert W., 1976, Geology of California.

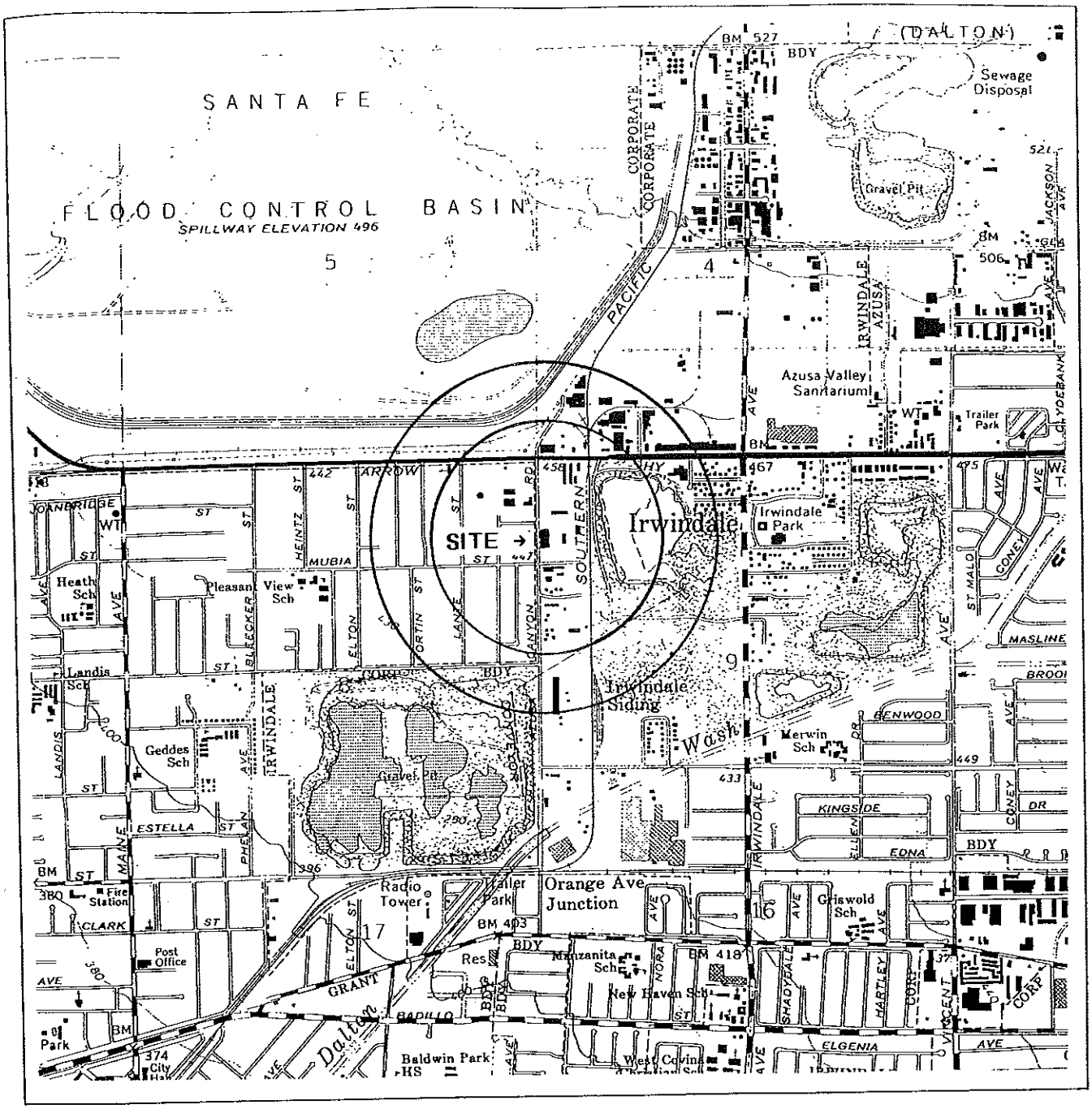
United States Geological Survey Professional Paper 1360, 1983, Evaluating Earthquake Hazards in the Los Angeles Region.

United States Geological Survey, 1966, Baldwin Park Quadrangle, California, 7.5 Minute Series Topographic Quadrangle Map, Photorevised 1981.

TABLE 1
SOIL ANALYTICAL RESULTS
GTE - Irwindale Plant Yard
5010 North Azusa Canyon Road
Irwindale, California
Sample date: January 19, 1996

Sample Number	Depth (feet)	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	TPH[a]
Samples collected from the unleaded gasoline tank excavation.						
S-6-T1N	6	<0.005	<0.005	<0.005	<0.015	<5
S-6-T1E	6	<0.005	<0.005	<0.005	<0.015	<5
S-6-T1W	6	<0.005	<0.005	<0.005	<0.015	<5
S-6-T1S	6	<0.005	<0.005	<0.005	<0.015	<5
S-13-T1 BOT N	13	<0.005	<0.005	<0.005	<0.015	<5
S-13-T1 BOT S	13	<0.005	<0.005	<0.005	<0.015	<5
Samples collected from the waste-oil tank excavation.						
S-9-T2E	9	NA	NA	NA	NA	<10[b]
S-9-T2W[c]	9	NA	NA	NA	NA	21[b]
Samples collected from the pipeline trench.						
S-2-PL1	2	<0.005	<0.005	<0.005	<0.015	<5
S-2-PL2	2	<0.005	<0.005	<0.005	<0.015	<5
Samples collected from below the dispenser.						
S-3-D1N	3	<0.005	<0.005	<0.005	<0.015	<5
S-3-D1E	3	<0.005	<0.005	<0.005	<0.015	<5
S-3-DIW	3	<0.005	<0.005	<0.005	<0.015	<5
S-3-D1S	3	<0.005	<0.005	<0.005	<0.015	<5
Samples collected from the soil stockpiles.						
S-2-SPIN	2	<0.005	<0.005	0.15	0.18	34
S-2-SP1N2	2	<0.005	<0.005	<0.005	<0.015	<5
S-2-SP1S	2	<0.005	<0.005	<0.005	<0.015	<5
S-2-SP1M	2	<0.005	<0.005	<0.005	<0.015	<5
S-2-SP2	2	<0.005	<0.005	<0.005	<0.015	<5
S-2-SP3	2	NA	NA	NA	NA	91[b]
S-2-SP4	2	NA	NA	NA	NA	100[b]

Concentrations in milligrams per kilogram (mg/kg).
[a] Total Petroleum Hydrocarbons as gasoline (EPA Method 8015 Modified).
Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) analyzed by EPA Method 8020.
<5 ND - Not detected at or above the stated laboratory detection limit.
[b] Sample analyzed for Total Recoverable Petroleum Hydrocarbons (TRPH) by EPA Method 418.1.
[c] Sample also analyzed for Purgeable Organics by EPA Method 8260 and CAM Inorganics. All Purgeable Organics target compounds were reported as ND. CAM Inorganics results are shown in the laboratory report.



1574SVM

N

APPROXIMATE SCALE

0 1/2 1

MILE

Source: U.S.G.S. 7.5 minute topographic quadrangle map Baldwin Park, California 1966 (Photorevised 1981)

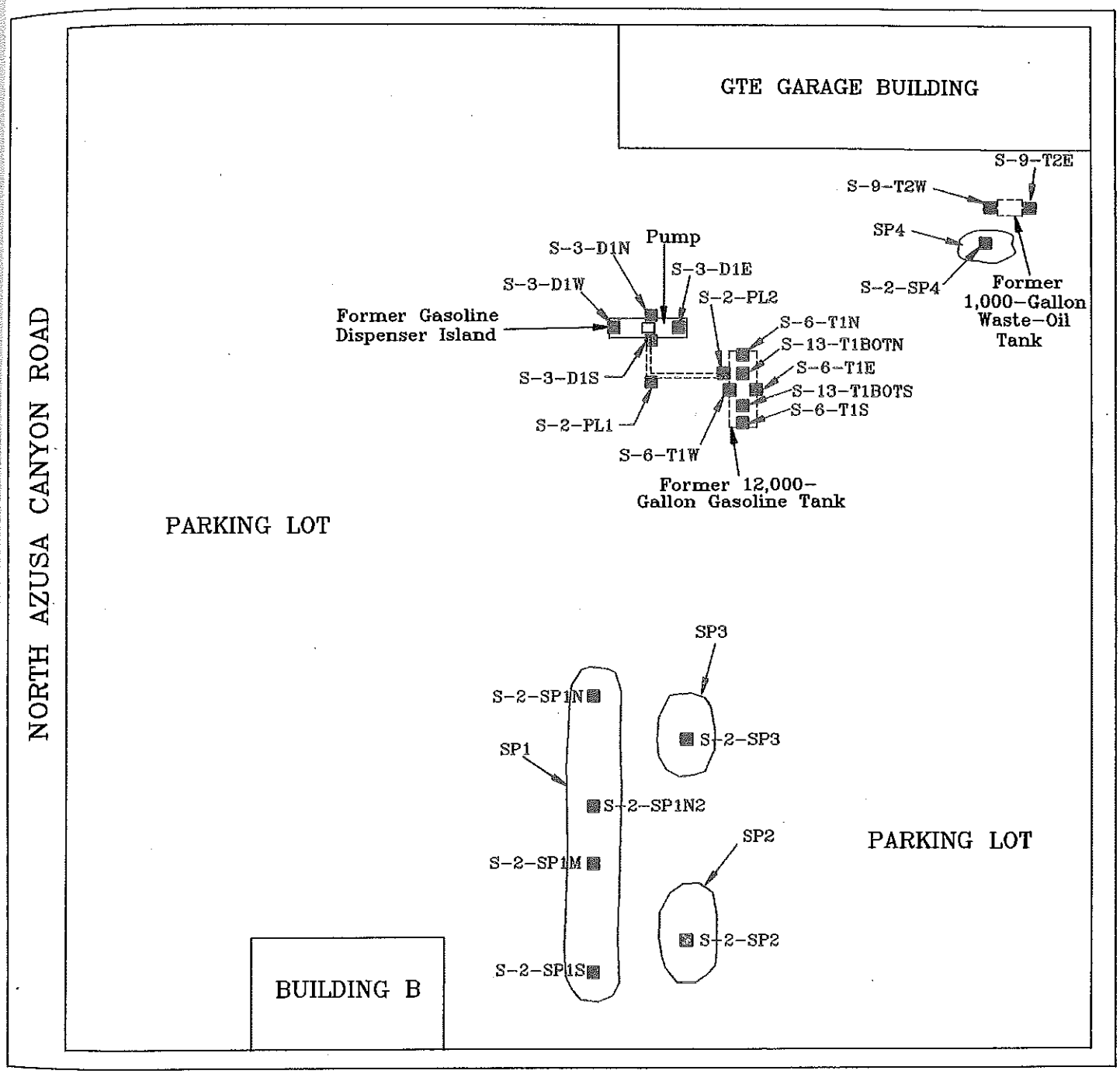
ERI ENVIRONMENTAL RESOLUTIONS, INC.

SITE VICINITY MAP

GTE – IRWINDALE PLANT YARD
5010 North Azusa Canyon Road
Irwindale, California

PROJECT 1574

PLATE P–1



FN 15740003

EXPLANATION

- S-2-SP2 — Soil Sample Location and Designation
- SP2 — Soil Stockpile
- ========= — Product Pipeline

N

APPROXIMATE SCALE

0 50 100 FEET

SOURCE: Modified from a map provided by GTE

ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

GTE – IRWINDALE PLANT YARD
5010 North Azusa Canyon Road
Irwindale, California

PROJECT NO. 1574

PLATE P-2

DATE: 02/09/95

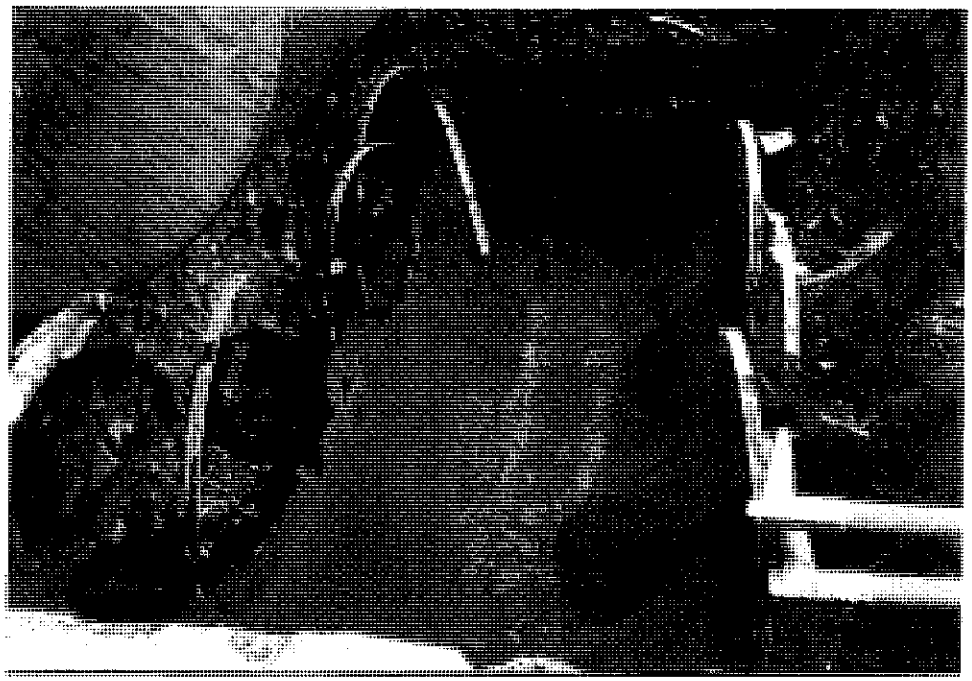
APPENDIX A

SITE PHOTOGRAPHS

PHOTOGRAPHS

Former 12,000-gallon Gasoline UST

Top View of UST



View of UST Excavation

PHOTOGRAPHS

Former 12,000-gallon Gasoline UST

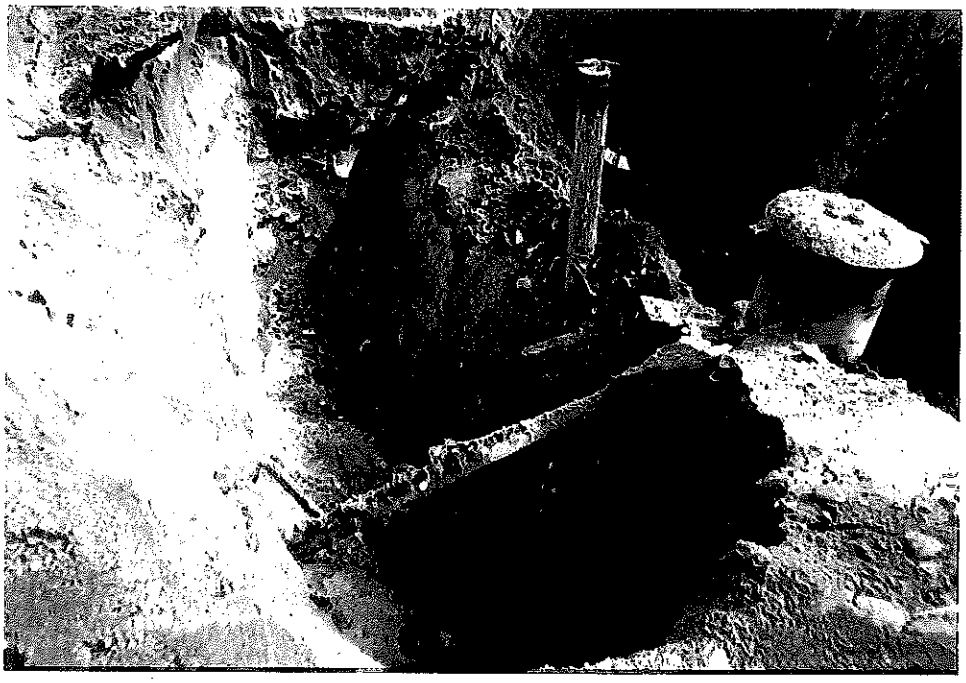
Side View of UST

End View of UST

PHOTOGRAPHS

Former 1,000-gallon Waste-Oil UST

Top View of UST



Side View of UST

APPENDIX B

PERMITS, MANIFESTS, AND CERTIFICATES

ICATION FOR CLOSURE
ARDOUS MATERIALS UNDERGROUND STORAGE
COUNTY OF LOS ANGELES-DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION
900 S. FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331

Permit 150480
File R/C
00375-00382 35
Fee $780.00
Check [X] Cash [ ]

OWNER: Name GTE California, Inc. Phone
Mailing Address P.O. Box 725 City Chino State CA Zip 91708

FACILITY:
Occupant Name GTE Irwindale Plant Yard Phone 800-331-8891
Site Address 5010 N. Azusa Canyon Rd. City Irwindale Zip 91706
Mailing Address P.O. Box 725 City Chino State CA Zip
Contact Person Stan Brodecki Title Environmental Assistant

CONTRACTOR [X], complete below: OWNER/OPERATOR AS CONTRACTOR [ ]
Name TAIT & Associates Phone
State License No. Class

CLOSURE REQUESTED:
[X] PERMANENT, TANK REMOVAL (See Conditions A and C Attached)
How many underground tanks will remain after this closure?
[ ] PERMANENT, CLOSURE IN PLACE (See Conditions A and D Attached)
[ ] TEMPORARY (See Conditions A and B Attached)

TANK DESCRIPTION: PLOT PLAN ATTACHED [ ] EXISTING HMUSP NO.

Tank No.	Tank Mat'l	Age	Capacity	Materials Stored (Past/Present)
1	Steel	6	12,000	Unleaded
2	Steel	28	500	Waste Oil

COMPLETE THE FOLLOWING:

	YES	NO
Has an unauthorized release ever occurred at this site?	[ ]	[X]
Has an unauthorized release ever been made to these tanks?	[ ]	[X]
Have structural repairs ever been made to these tanks?	[X]	[ ]
Will new underground tanks be installed after closure?	[ ]	[X]
Will any wells, including monitoring wells, be abandoned?		

NOTICE: CONTAMINATED TANKS AND RESIDUES THAT MAY BE LEFT IN TANKS TO BE CLOS MAY BE A HAZARDOUS WASTE WHICH MUST BE TRANSPORTED AND DISPOSED OF PURSUANT CHAPTER 6.5, CALIFORNIA HEALTH & SAFETY CODE. FAILURE TO COMPLY MAY BE PROSECUTED AS A FELONY VIOLATION.

By signature below the applicant certifies that all statements and disclosures above are true and correct and that they have read and agree to abide by this permit and all conditions and limitations attached.

Applicant's Signature Laura D. Box Date Dec. 4, 1995
(Print Name) Laura D. Box Phone (714) 560-8200
Owner [ ] Operator [ ] Contractor [ ]

TO BE COMPLETED BY THE DEPARTMENT OF PUBLIC WORKS

PURSUANT TO SECTION 11.80.070B, LOS ANGELES COUNTY CODE, PERMISSION IS HERE GRANTED TO PROCEED WITH THE CLOSURE DESCRIBED ABOVE SUBJECT TO THE ATTACHED CONDITIONS AND LIMITATIONS [X]. THIS PERMIT EXPIRES 180 DAYS FROM THE DATE BELOW.

T.A. TIDEMANSON
Director of Public Works

By Deanedwo Date 12/05/95

CLOSURE PERMIT SUPPLEMENT
HAZARDOUS MATERIALS UNDERGROUND STORAGE
LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION
900 S. FREMONT AVENUE
ALHAMBRA, CA 91803

Closure Permit
No.: 150480
File No.
I- 003755-003882

PART 1 OF 2

To satisfy the permanent closure requirements for underground storage tanks previously storing hazardous materials, site integrity must be demonstrated by the analysis of soil samples and, if applicable, groundwater samples as outlined below. These requirements are in addition to the conditions listed on the Application for Closure or contained in an approved Closure Plan.

1. Samples shall be obtained at the sampling points (SP) indicated on the attached plot plan.

2. For each SP, samples shall be obtained at the following depths:

SP	Depth(s)	Compounds	Analysis Method
1A, 1B (gasoline)	2'-4' below tank invert	TPH, BTEX	8015M, 8020
under each dispenser (2 at each island)	2'-4' below	"	"
under each dispenser	2'-4' below	"	"
2A (waste oil)	2'-4' below tank invert	TRPH, BTEX	418.1, 8020

dn4/FPERMIT Rev. 3/90

Cont'd on Page 2

APPENDIX C

SOIL RECYCLING MANIFESTS AND DOCUMENTATION

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900
FAX 714/538-1209

CLIENT

Environmental Resolutions, Inc.
Attn: Bob Weinberger
9276 Jeronimo Road
Suite 106
Irvine, CA 92718

LAB NO. ML01007-01

REPORTED 01/25/96

RECEIVED 01/19/96

SAMPLE Soil

IDENTIFICATION GTE-5010 Azusa Cyn. Road, Irwindale

BASED ON SAMPLE As Submitted to Our Mobile Laboratory

	S-2-SP1N	S-2-SP1S	S-2-SP1M
Total Hydrocarbons (TPH DHS) (mg/kg) -Gasoline	34	ND< 5	ND< 5
Benzene (mg/kg)	ND< 0.005	ND< 0.005	ND< 0.005
Toluene (mg/kg)	ND< 0.005	ND< 0.005	ND< 0.005
Ethylbenzene (mg/kg)	0.15	ND< 0.005	ND< 0.005
Total Xylenes (8020) (mg/kg)	0.18	ND< 0.015	ND< 0.015

ASSOCIATED LABORATORIES, by:

Michael G. Chapman
Director Environmental Services

MGC/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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CLIENT

Environmental Resolutions, Inc.
Attn: Bob Weinberger
9276 Jeronimo Road
Suite 106
Irvine, CA 92718

LAB NO. ML01007-01

REPORTED 01/25/96

SAMPLE Soil

RECEIVED 01/19/96

IDENTIFICATION GTE-5010 Azusa Cyn. Road, Irwindale

BASED ON SAMPLE As Submitted to Our Mobile Laboratory

	S-2-SP1N	S-2-SP1S	S-2-SP1M
Total Hydrocarbons (TPH DHS) (mg/kg) -Gasoline	34	ND< 5	ND< 5
Benzene (mg/kg)	ND< 0.005	ND< 0.005	ND< 0.005
Toluene (mg/kg)	ND< 0.005	ND< 0.005	ND< 0.005
Ethylbenzene (mg/kg)	0.15	ND< 0.005	ND< 0.005
Total Xylenes (8020) (mg/kg)	0.18	ND< 0.015	ND< 0.015

ASSOCIATED LABORATORIES, by:

Michael G. Chapman
Director Environmental Services

MGC/ql

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Environmental Resolutions, Inc.
Attn: Bob Weinberger
9276 Jeronimo Road
Suite 106
Irvine, CA 92718

LAB NO. ML01007-02

REPORTED 01/25/96

SAMPLE Soil

RECEIVED 01/19/96

IDENTIFICATION GTE-5010 Azusa Cyn. Road, Irwindale

BASED ON SAMPLE As Submitted to Our Mobile Laboratory

	S-2-SP2	S-2-SP3	S-2-SP4
Total Hydrocarbons (TPH DHS) (mg/kg) -Gasoline	ND< 5	-----	-----
Hydrocarbons (418.1) (mg/kg)	-----	91	100
Benzene (mg/kg)	ND< 0.005	-----	-----
Toluene (mg/kg)	ND< 0.005	-----	-----
Ethylbenzene (mg/kg)	ND< 0.005	-----	-----
Total Xylenes (8020) (mg/kg)	ND< 0.015	-----	-----

ASSOCIATED LABORATORIES, by:

Michael G. Chapman
Director Environmental Services

MGC/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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Environmental Resolutions, Inc.
Attn: Bob Weinberger
9276 Jeronimo Road
Suite 106
Irvine, CA 92718

LAB NO. ML01007-03

REPORTED 01/25/96

RECEIVED 01/19/96

SAMPLE Soil

IDENTIFICATION GTE-5010 Azusa Cyn. Road, Irwindale

BASED ON SAMPLE As Submitted to Our Mobile Laboratory

	S-2-PL1	S-2-PL2	S-3-D1E
Total Hydrocarbons (TPH DHS) (mg/kg) -Gasoline	ND< 5	ND< 5	ND< 5
Benzene (mg/kg)	ND< 0.005	ND< 0.005	ND< 0.005
Toluene (mg/kg)	ND< 0.005	ND< 0.005	ND< 0.005
Ethylbenzene (mg/kg)	ND< 0.005	ND< 0.005	ND< 0.005
Total Xylenes (8020) (mg/kg)	ND< 0.015	ND< 0.015	ND< 0.015

ASSOCIATED LABORATORIES, by:

Michael G. Chapman
Director Environmental Services

MGC/ql

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Irvine, CA 92718

LAB NO. ML01007-04

REPORTED 01/25/96

SAMPLE Soil

RECEIVED 01/19/96

IDENTIFICATION GTE-5010 Azusa Cyn. Road, Irwindale

BASED ON SAMPLE As Submitted to Our Mobile Laboratory

	S-3-D1W	S-3-D1S	S-6-T1N
Total Hydrocarbons (TPH DHS) (mg/kg) -Gasoline	ND< 5	ND< 5	ND< 5
Benzene (mg/kg)	ND< 0.005	ND< 0.005	ND< 0.005
Toluene (mg/kg)	ND< 0.005	ND< 0.005	ND< 0.005
Ethylbenzene (mg/kg)	ND< 0.005	ND< 0.005	ND< 0.005
Total Xylenes (8020) (mg/kg)	ND< 0.015	ND< 0.015	ND< 0.015

ASSOCIATED LABORATORIES, by:

Michael G. Chapman
Director Environmental Services

MGC/ql

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Irvine, CA 92718

LAB NO. ML01007-05

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SAMPLE Soil

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IDENTIFICATION GTE-5010 Azusa Cyn. Road, Irwindale

BASED ON SAMPLE As Submitted to Our Mobile Laboratory

	S-6-T1E	S-6-T1S	S-6-T1W
Total Hydrocarbons (TPH DHS) (mg/kg) -Gasoline	ND< 5	ND< 5	ND< 5
Benzene (mg/kg)	ND< 0.005	ND< 0.005	ND< 0.005
Toluene (mg/kg)	ND< 0.005	ND< 0.005	ND< 0.005
Ethylbenzene (mg/kg)	ND< 0.005	ND< 0.005	ND< 0.005
Total Xylenes (8020) (mg/kg)	ND< 0.015	ND< 0.015	ND< 0.015

ASSOCIATED LABORATORIES, by:

Michael G. Chapman
Director Environmental Services

MGC/ql

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Attn: Bob Weinberger
9276 Jeronimo Road
Suite 106
Irvine, CA 92718

LAB NO. ML01007-06

REPORTED 01/25/96

SAMPLE Soil

RECEIVED 01/19/96

IDENTIFICATION GTE-5010 Azusa Cyn. Road, Irwindale

BASED ON SAMPLE As Submitted to Our Mobile Laboratory

	S-13-T1 BOT N	S-13-T1 BOT S	S-9-T2E
Total Hydrocarbons (TPH DHS) (mg/kg) -Gasoline	ND< 5	ND< 5	-----
Hydrocarbons (418.1) (mg/kg)	-----	-----	ND<10
Benzene (mg/kg)	ND< 0.005	ND< 0.005	-----
Toluene (mg/kg)	ND< 0.005	ND< 0.005	-----
Ethylbenzene (mg/kg)	ND< 0.005	ND< 0.005	-----
Total Xylenes (8020) (mg/kg)	ND< 0.015	ND< 0.015	-----

ASSOCIATED LABORATORIES, by:

Michael G. Chapman
Director Environmental Services

MGC/ql

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CLIENT

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Attn: Bob Weinberger
9276 Jeronimo Road
Suite 106
Irvine, CA 92718

LAB NO. ML01007-07

REPORTED 01/25/96

RECEIVED 01/19/96

SAMPLE Soil

IDENTIFICATION GTE-5010 Azusa Cyn. Road, Irwindale

BASED ON SAMPLE As Submitted to Our Mobile Laboratory

	S-9-T2W	S-2-SP1N2	S-3-D1N
Total Hydrocarbons (TPH DHS) (mg/kg) -Gasoline	-----	ND< 5	ND< 5
Hydrocarbons (418.1) (mg/kg)	21	-----	-----
Benzene (mg/kg)	-----	ND< 0.005	ND< 0.005
Toluene (mg/kg)	-----	ND< 0.005	ND< 0.005
Ethylbenzene (mg/kg)	-----	ND< 0.005	ND< 0.005
Total Xylenes (8020) (mg/kg)	-----	ND< 0.015	ND< 0.015

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Michael G. Chapman
Director Environmental Services

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(714) 771-6900 • FAX: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 1/19/96 Page 1 of 2

CLIENT ENVIRONMENTAL RESOLUTIONS, INC.

ADDRESS 9270 JERONIMO Rd, #106
IRVINE, CA 92718

PROJECT NAME

PROJECT MANAGER
BOB WEINBERGER

PHONE NUMBER (714) 457-8950

SAMPLERS: (Signature)
Robert C. Weinberger

Samples Intact Yes ✓ No ____
County Seals Intact Yes N/A No ____
Sample Ambient ✓ Cooled ____ Frozen ____
Same Day ✓ 24 Hr. ____
Regular ____ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE: WATER	SAMPLE TYPE: AIR	SAMPLE TYPE: SOLID	NO. OF CNTNRS.	SUSP. CONTAM.	TESTS REQUIRED
ML1007-1	S-2-SP1N	1/19/96	0813			✓	1		8015M(GAS)/8020
-2	S-2-SP1S		0813			✓	1		
-3	S-2-SP1M		0813			✓	1		
-4	S-2-SP2		0823			✓	1		
-7	S-2-PL1		0857			✓	1		
-8	S-2-PL2		0900			✓	1		
-9	S-3-D1E		0932			✓	1		
-10	S-3-D1W		0942			✓	1		
-11	S-3-D1S		0942			✓	1		
-12	S-6-T1N		1133			✓	1		
-13	S-6-T1E		1135			✓	1		
-14	S-6-T1S	↓	1138			✓	1		↓

Relinquished by: (Signature)
Robert C. Weinberger

Received by: (Signature)
Mary E. Richards

Date/Time
1337
1/19/96

Relinquished by: (Signature)

Received by Laboratory for analysis: (Signature)

Date/Time

Special Instructions:

I hereby authorize the performance of the above indicated work.

DISTRIBUTION: White with report. Yellow to AL, Pink to Courier

ASSOCIATED LABORATORIES
806 N. Batavia • Orange, CA 92668
(714) 771-6900 • FAX: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 1/19/96 Page 1 of 1

CLIENT ENVIRONMENTAL RESOLUTIONS, INC
ADDRESS 9276 JERONIMO Rd, #106
IRVINE, CA 92718
PROJECT NAME

PROJECT MANAGER
BOB WEINBERGER
PHONE NUMBER (714)457-8950
SAMPLERS: (Signature)
Robt Weinberger

Samples Intact Yes ✓ No ___
County Seals Intact Yes N/A No ___
Sample Ambient ___ Cooled ___ Frozen ___
Same Day ✓ 24 Hr. ___
Regular ___ 48 Hr. ___

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE: WATER	AIR	SOLID	NO. OF CNTNRS.	SUSP. CONTAM.	TESTS REQUIRED
ML1007-5	S-2-SP3	1/19/96	0823			✓	1		418.1
-6	S-2-SP4		0826			✓	1		"
-18	S-9-T2E		1228			✓	1		"
-19	S-9-T2W		1228			✓	1		"

☆ S-9-T2W ~~HYDROCARBONS~~ 418.1

TO BE RUN FOR 8260, CAM METALS

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Robt Weinberger	Mary E. Richards	1/19/96 1337
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature)	Date/Time

Special Instructions:

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(714) 771-6900 • FAX: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 1/19/96 Page 2 of 2

CLIENT ENVIRONMENTAL RESOLUTIONS, INC
ADDRESS 9276 JERONIMO Rd, Suite 106
IRVINE, CA 92718

PROJECT NAME

PROJECT MANAGER
BOB WEINBERGER
PHONE NUMBER (714) 457-8950
SAMPLERS: (Signature)
Robert C. Weinberger

Samples Intact Yes ✓ No ____
County Seals Intact Yes N/A No ____
Sample Ambient ✓ Cooled ____ Frozen ____
Same Day ✓ 24 Hr. ____
Regular ____ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	SAMPLE TYPE AIR	SAMPLE TYPE SOLID	NO. OF CNTNRS.	SUSP. CONTAM.	TESTS REQUIRED
ML1007-15	S-6-T1W	1/19/96	1141			✓	1		8015M(GAS)/8020
-16	S-13-T1 BOT N		1210			✓	1		↓
-17	S-13-T1 BOT S		1221			✓	1		
-20	S-2-SP1 N2		1251			✓	1		
-21	S-3-D1N		1301			✓	1		

Relinquished by: (Signature) Robert C. Weinberger
Received by: (Signature) Mary E. Richards
Date/Time 1337 1/19/96

Relinquished by: (Signature)
Received by Laboratory for analysis: (Signature)
Date/Time

Special Instructions:

I hereby authorize the performance of the above indicated work.

DISTRIBUTION: White with report. Yellow to AL, Pink to Courier

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900
FAX 714/538-1209

CLIENT

Environmental Resolutions, Inc.
Attn: Bob Weinberger
9272 Jeronimo Road
Suite 106
Irvine, CA 92718

LAB NO. H13052

REPORTED 01/22/96

RECEIVED 01/19/96

SAMPLE Soil

IDENTIFICATION **Sample ID: S-9-T2W**

BASED ON SAMPLE Additional Analyses from Previous Lab #ML01007
As Submitted

CAM INORGANICS

Constituent	Method	Date/Analyst	TTLC (mg/kg)
Antimony	EPA 6010	01/22/96 LB	7.37
Arsenic	EPA 6010	01/22/96 LB	1.94
Barium	EPA 6010	01/22/96 LB	50.9
Beryllium	EPA 6010	01/22/96 LB	0.50
Cadmium	EPA 6010	01/22/96 LB	ND< 0.18
Chromium, Hexavalent	EPA 6010	01/22/96 HK	ND< 1
Chromium	EPA 6010	01/22/96 LB	11.4
Cobalt	EPA 6010	01/22/96 LB	5.87
Copper	EPA 6010	01/22/96 LB	19.6
Fluoride	EPA 6010	01/22/96 HK	5.08
Lead	EPA 6010	01/22/96 LB	7.49
Mercury	EPA 6010	01/22/96 NV	ND< 0.07
Molybdenum	EPA 6010	01/22/96 LB	ND< 0.69
Nickel	EPA 6010	01/22/96 LB	8.52
Selenium	EPA 6010	01/22/96 LB	0.41
Silver	EPA 6010	01/22/96 LB	ND< 0.36
Thallium	EPA 6010	01/22/96 LB	2.06
Vanadium	EPA 6010	01/22/96 LB	17.0
Zinc	EPA 6010	01/22/96 LB	140
Purgeable Organics	EPA 8260	01/21/96 AS	ND*

*All Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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TESTING & CONSULTING
Chemical •
Microbiological •
Environmental •

Volatile Organic Compounds - EPA 8260
Soil/Sediment - Estimated Quantitation Limits (EQL - Wet Weight)
Dilution Factor = 1

Compound	CAS No.	EQL (µg/kg)
Benzene	71-43-2	5
Bromobenzene	108-86-1	5
Bromochloromethane	74-97-5	5
Bromodichloromethane	75-27-4	5
Bromoform	75-25-2	5
Bromomethane	74-83-9	5
n-Butylbenzene	104-51-8	5
sec-Butylbenzene	135-98-8	5
tert-Butylbenzene	98-06-6	5
Carbon tetrachloride	56-23-5	5
Chlorobenzene	108-90-7	5
Chloroethane	75-00-3	5
Chloroform	67-66-3	5
Chloromethane	74-87-3	5
2-Chlorotoluene	95-49-8	5
4-Chlorotoluene	106-43-4	5
Dibromochloromethane	124-48-1	5
1,2-Dibromo-3-chloropropane	96-12-8	5
1,2-Dibromoethane	106-93-4	5
Dibromomethane	74-95-3	5
1,2-Dichlorobenzene	95-50-1	5
1,3-Dichlorobenzene	541-73-1	5
1,4-Dichlorobenzene	106-46-7	5
Dichlorodifluoromethane	75-71-8	5
1,1-Dichloroethane	75-34-3	5
1,2-Dichloroethane	107-06-2	5
1,1-Dichloroethene	75-35-4	5
cis-1,2-Dichloroethene	156-59-4	5
trans-1,2-Dichloroethene	156-60-5	5
1,2-Dichloropropane	78-87-5	5
1,3-Dichloropropane	142-28-9	5
2,2-Dichloropropane	590-20-7	5
1,1-Dichloropropene	563-58-6	5
1,3-Dichloropropene, Total	----	5
Ethylbenzene	100-41-4	5
Hexachlorobutadiene	87-68-3	5
Isopropylbenzene	98-82-8	5
4-Isopropyltoluene	99-87-6	5
Methylene chloride	75-09-2	5
Naphthalene	91-20-3	5

Cont. on page 2

Volatile Organic Compounds - EPA 8260
Soil/Sediment - Estimated Quantitation Limits (EQL - Wet Weight)
Dilution Factor = 1

Compound	CAS No.	EQL (µg/kg)
n-Propylbenzene	103-65-1	5
Styrene	100-42-5	5
1,1,1,2-Tetrachloroethane	630-20-6	5
1,1,2,2-Tetrachloroethane	79-34-5	5
Tetrachloroethene	127-18-4	5
Toluene	108-88-3	5
1,2,3-Trichlorobenzene	87-61-6	5
1,2,4-Trichlorobenzene	120-82-1	5
1,1,1-Trichloroethane	71-55-6	5
1,1,2-Trichloroethane	79-00-5	5
Trichloroethene	79-01-6	5
Trichlorofluoromethane	75-69-4	5
1,2,3-Trichloropropane	96-18-4	5
1,2,4-Trimethylbenzene	95-63-6	5
1,3,5-Trimethylbenzene	108-67-8	5
Vinyl chloride	75-01-4	5
p-Xylene	106-42-3	5
m-Xylene	108-38-3	5
o-Xylene	95-47-6	5
1-Chlorohexane	544-10-5	5

ASSOCIATED LABORATORIES
806 N. Batavia • Orange, CA 92668
(714) 771-6900 • FAX: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 1/19/96 Page 1 of 1

H13058

CLIENT ENVIRONMENTAL RESOLUTIONS, INC
ADDRESS 9276 JERONIMO Rd, #106
IRVINE, CA 92718
PROJECT NAME

PROJECT MANAGER
BOB WEINBERGER
PHONE NUMBER (714)457-8950
SAMPLERS: (Signature)
Robert Weinberger

Samples Intact Yes ✓ No ____
County Seals Intact Yes N/A No ____
Sample Ambient ____ Cooled ____ Frozen ____
Same Day ✓ 24 Hr. ____
Regular ____ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE: WATER	SAMPLE TYPE: AIR	SAMPLE TYPE: SOLID	NO OF CNTNRS.	SUSP. CONTAM.	TESTS REQUIRED
ML1007-5	S-2-SP3	1/19/96	0823			✓	1		418.1
-6	S-2-SP4		0826			✓	1		"
-18	S-9-T2E		1228			✓	1		"
-19	S-9-T2W		1228			✓	1		"

A S-9-T2W UNLESS 418.1 TO BE RUN FOR 8260, CAM METALS

Relinquished by: (Signature) Robert Weinberger
Relihquished by: (Signature)

Received by: (Signature) Mary E. Richards
Received by Laboratory for analysis: (Signature)

Date/Time 1337 1/19/96
Date/Time

I hereby authorize the performance of the above indicated work.

Special Instructions:

DISTRIBUTION: White with report. Yellow to AL, Pink to Courier

UNDERGROUND STORAGE TANK REMOVAL REPORT
VERIZON - IRWINDALE Fleet Yard
GLC 071207B
5010 AZUSA CANYON ROAD
IRWINDALE, CALIFORNIA

Prepared for:

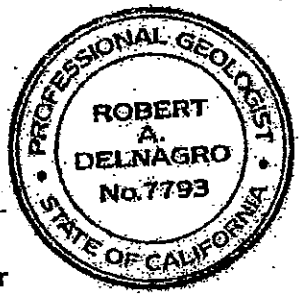
Verizon – Environment Management
280 South Locust Street, CAA05HJ
Pomona, California 91766

Prepared by:

Shaw Environmental, Inc.
3347 Michelson Drive, Suite 200
Irvine, California 92612

Jim Cirillo
Project Manager

Rob Delnagro P.G., C.E.M.
California Program Manager



Shaw Project No. 135823.01

June 2009

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B	Site Photographs
C	Waste Manifest for Rinsate Disposal
D	Certificate of Destruction for the UST and Piping
E	Laboratory Reports and Chain-of-Custody Documents
F	South Coast AQMD Rule 1166 Mitigation Plan No. 498435 and Vapor Monitoring Logs
G	South Coast AQMD Rule 1166 Notification Form
H	Site Specific Monitoring Plan

1.0 Introduction

On behalf of Verizon – Environment Management, Shaw Environmental, Inc. (Shaw) was contracted to provide environmental consulting services during the removal of one 12,000-gallon gasoline underground storage tank (UST), associated piping and fuel pump from the Verizon – Irwindale Fleet Yard (Site) located at 5010 Azusa Canyon Road, Irwindale, California (Figure 1). UST removal work discussed in this report was completed in compliance with local and state regulatory requirements on May 20, 2009.

1.1 Site Description

The Site is located in a well developed setting of Irwindale, California, primarily comprised of industrial buildings mixed with multi-family residential properties. A single-story building housing a Verizon fleet fueling operations facility, a canopy covered fuel pump island and Verizon fleet vehicle parking lot occupy the majority of the site (Figure 2).

One 12,000-gallon double-wall steel unleaded gasoline UST used to fuel fleet vehicles was located to the south of the Verizon building. As Verizon decided to discontinue maintaining a UST at the site, the UST was scheduled for removal.

1.2 Permits

Prior to initiation of UST removal activities, Tait Environmental Services, Inc. (Tait), of Santa Ana, California completed a UST Application for Closure (issued on November 6, 2008) from the Los Angeles County Department of Public Works (DPW) Environmental Programs Division and was granted a permit, which authorized removal of the UST. The DPW Site File number is 3755-3882 and the closure permit number is 591016.

Before commencing with the tank removal activities, Shaw submitted a Rule 1166 Notification Form under Mitigation Plan Number 498435 and South Coast Air Quality Management District (SCAQMD) Identification Number 159709. Additionally, in advance of the removal activities, a representative of the Los Angeles County Fire Department (LACFD) was scheduled to observe UST removal activities. Copies of the permit application/removal permit, regulatory notification documentation, and State forms are included in Appendix A.

2.0 Tank Removal Field Activities

2.1 UST Removal

The Site is located within the SCAQMD and therefore was required to have in place an approved Various Locations Rule 1166 Contaminated Soil Mitigated Plan (Mitigation Plan). Prior to commencing work, Shaw applied for and received an approved Mitigation Plan from SCAQMD, number 498435. A copy of the Mitigation Plan is included in Appendix F.

As required by the Mitigation Plan, Shaw performed organic vapor monitoring during all excavation activities in accordance with applicable Rule 1166 monitoring requirements. Vapor monitoring logs are included in Appendix F.

On May 18, 2009, prior to removal of the UST, Tait removed the system's fuel pump and associated components. (While the dispensing hoses were completely flushed and removed, the fuel dispenser was left intact and will be removed at a later date by Tait.) Upon completion of these activities, Tait commenced with jack hammering the concrete overlying the UST, associated piping, and vent line trench, and excavating the soil fill material surrounding the UST. Digging and trenching activities continued through May 19, 2009. The removed fill material was placed on a plastic liner adjacent to the excavation. Photographic documentation of the UST removal activities is included in Appendix B.

On May 20, 2009, prior to removal, the UST was triple-rinsed by Nieto & Sons (Nieto) personnel using a fresh water/detergent mixture and a hot water pressure washer. Following rinsing, visual inspection of the UST revealed no residual sludge or liquid on the visible portions of the interior of the tank. Approximately 200 gallons of fuel and rinsate were removed from the UST using a vacuum truck. The rinsate and fuel were then transported for disposal, under manifest number 002152481-FLE to DeMenno Kerdoon in Compton, California. A copy of the hazardous waste manifest for the rinseate is included in Appendix C.

On May 20, 2009, under the oversight of LACFD Certified Industrial Hygienist (CIH) Ms. Nancy Carraway, Nieto secured the tank hoist straps and prepared the UST for removal. Ms. Carraway subsequently granted Nieto permission to remove the UST after they used a combustible gas indicator to measure the concentrations of flammable vapor and percent oxygen within the UST which were measured at below 1 percent and at 20.9 percent,

respectively. Additionally, Mr. Frank Garcia of LACFD was present to provide safety oversight.

The UST was removed using a crane. Following removal, the UST was inspected for signs of deterioration, holes, or leakage. The excavated tank was observed to be in good condition, without holes or cracks. According to the Hazardous Waste Tank Closure Certification completed by Ms. Carraway, no product, sludge, scale, rinsate or debris was observed within the UST. Subsequent to Ms. Carraway's visual inspection, the UST and associated piping were then transported by Nieto to Ecology Auto Parts in Santa Fe Springs, California. A copy of the manifest and certificate of destruction for the UST and piping are presented in Appendix D.

Mr. Garcia left the site after observing the successful removal of the UST from the excavation and it being secured to a flatbed truck for off-site transportation.

2.2 *Soil Sampling Activities*

Confirmation soil samples and soil stockpile samples were collected on May 20, 2009 in accordance with LACFD, DPW and California Regional Water Quality Control Board – Los Angeles Region (RWQCB-LA) soil sampling requirements. All soil samples were collected in clean, unused two-inch diameter stainless steel sleeves, capped, labeled, placed on ice in a cooler, and transported to the contract laboratory by Shaw personnel under appropriate chain-of-custody.

After collection, the soil samples were transported under strict chain-of-custody and submitted to Chemical & Environmental Laboratories, Inc. (C&E Laboratory), an Environmental Laboratory Accreditation Program (ELAP)-certified laboratory (ELAP number 2268) located in Santa Fe Springs, California. The excavation and stockpile soil samples were analyzed for the following analytes:

- Benzene, toluene, ethylbenzene and xylenes (BTEX), plus the fuel oxygenates methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), tertiary butyl alcohol (TBA), and tertiary-amyl methyl ether (TAME) using EPA Method 8260B
- Total petroleum hydrocarbons as diesel (TPH-D) using EPA Method 8015B Modified (carbon chain range C10 to C24)
- Total petroleum hydrocarbons as gasoline (TPH-G) using EPA Method 8015B Modified (carbon chain range C6 to C12)

- Methanol and ethanol using EPA Method 8015B Modified

Confirmation Sample Collection

The location of the former UST is identified on Figures 2 and 3. The location description of the confirmation samples collected following removal of the UST system are as follows:

- SS-01-2'; vent side floor, collected at 11:40
- SS-02-4', vent side floor, collected at 12:10
- SS-03-2'; fill side floor, collected at 12:47
- SS-04-4'; fill side floor, collected at 13:14
- SS-05-4'; east vent line trench floor, collected at 13:40
- SS-06-6'; east vent line trench floor, collected at 14:00
- SS-07-4'; west vent line trench floor, collected at 14:29
- SS-08-6'; west vent line trench floor, collected at 14:45
- SS-09-4'; adjacent to dispenser, collected at 15:00

All samples were collected on May 20, 2009. Two floor samples were collected from each end of the tank pit at approximately 2-feet and 4-feet below the surface of the excavation bottom. Additionally, two samples were collected from each end of the former vent line trench at approximately 4-feet and 6-feet below the floor of the excavated trench. Finally, a sample was obtained immediately adjacent and north of the dispenser at approximately 4-feet below surface grade (bsg).

Excavation samples SS-01-2', SS-02-4', SS-03-2', SS-04-4', SS-05-4', SS-06-6', SS-07-4', and SS-08-6' were collected by hand in stainless steel sleeves, directly from the excavation bucket. Excavation sample SS-09-4' was collected by pushing a stainless steel sleeve into soil exposed using a hand shovel. The locations and results for the excavation samples are shown on Figure 3.

Stockpile Sample Collection

The stockpiled soil was planned for use as excavation backfill, pending the review of analytical data and physical testing results. To characterize the stockpile, four discrete soil samples were collected and submitted for analysis on May 20, 2009. These samples were collected by pushing a stainless steel sleeve into soil from four locations along the stockpile perimeter. The locations and results for the stockpile soil samples, identified as SP-01

(collected at 15:20), SP-02 (collected at 15:30), SP-03 (collected at 15:40), and SP-04 (collected at 15:50) are shown on Figure 3.

2.3 Confirmation Soil Sample Results

No BTEX, TPH-G, TPH-D or fuel oxygenates were detected in the UST system confirmation soil samples. Soil sample analytical results are summarized in Table 1 and depicted on Figure 3. Copies of the laboratory reports are included in Appendix E.

2.4 Stockpile Soil Sample Results

No BTEX, TPH-G, TPH-D or fuel oxygenates were detected in the stockpile soil samples. Stockpile soil sample analytical results are summarized in Table 1 and depicted on Figure 3. Copies of the laboratory reports are included in Appendix E

3.0 Site Restoration

Review of the laboratory analytical results for the excavation and soil stockpile samples indicated that the stockpiled material was appropriate for use as backfill. Backfilling activities commenced on May 22, 2009; additional, site restoration activities were performed independent of Shaw oversight.

The fuel dispenser is securely stored on site and will be removed by Tait at a later date.

4.0 Conclusions

Based on the field observations and laboratory analytical data presented in this report, Shaw concludes the following:

- On May 20, 2009, one 12,000-gallon unleaded gasoline UST and associated steel piping were removed from the site.
- Groundwater was not encountered during tank removal activities.
- No sheen or other evidence of petroleum impact was noted on the in-situ soils or removed fill material.
- No BTEX, TPH-G, TPH-D or fuel oxygenates were detected in the excavation confirmation soil samples.
- No BTEX, TPH-D, TPH-G or fuel oxygenates were detected in the stockpile soil samples.
- Results of the laboratory analyses did not indicate a release of petroleum had occurred.
- The tank excavation was subsequently backfilled using the stockpiled soil and clean imported fill gravel.
- No further action is recommended for this site.

4.1 Reporting Requirements

One copy of this report will be forwarded to the following regulatory agency:

County of Los Angeles Department of Public Works
Environmental Programs Division
P.O. Box 1460
Alhambra, California 91802-1460
Attention: Manny Regalado

TABLES

Table 1
Soil Sample Analytical Results
Verizon Plant Yard - Irwindale Facility
5010 Azusa Canyon Road
Irwindale California

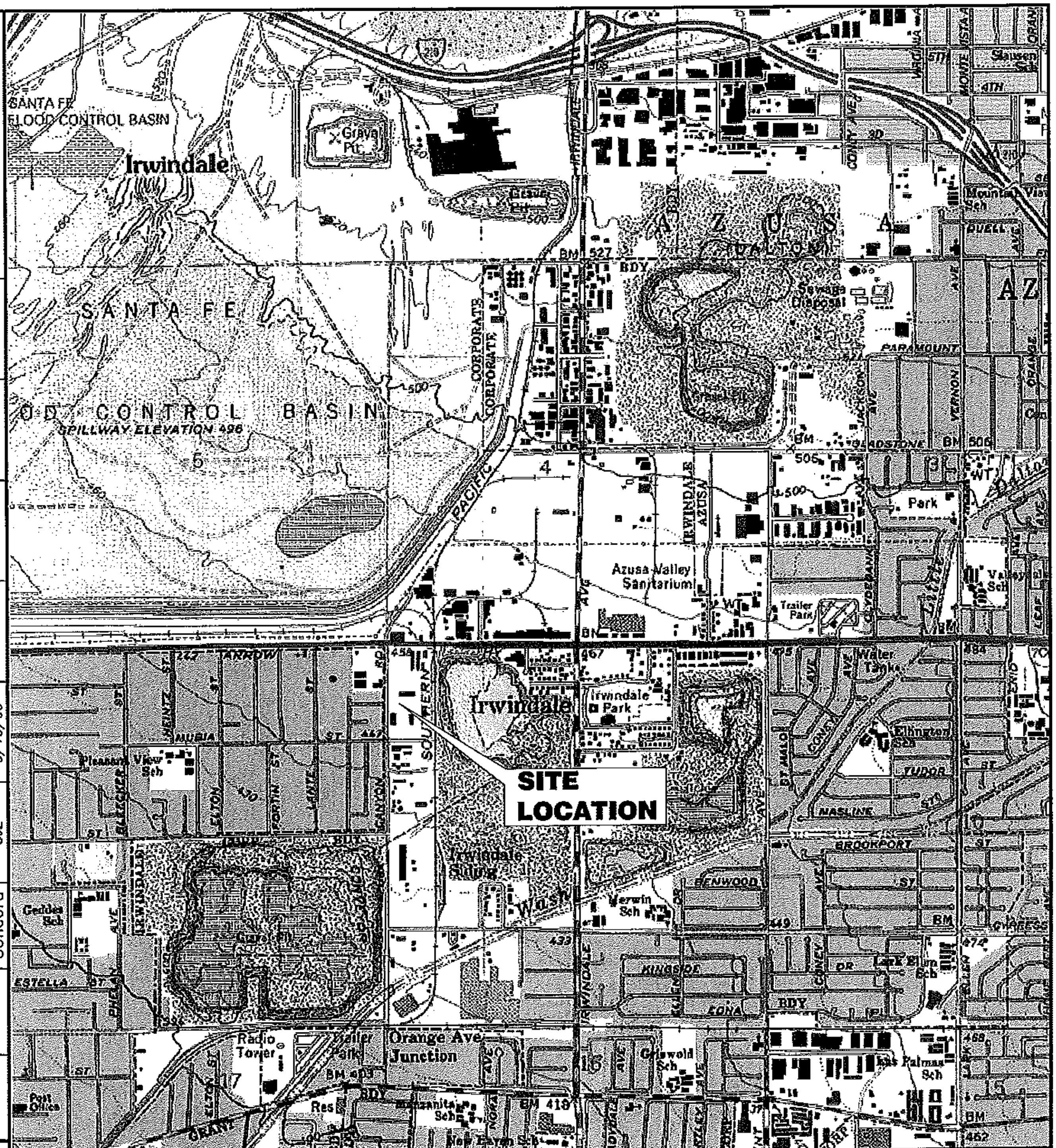
Sample I.D.	Sample Location [1]	Sample Depth (bsg)	Date Collected	TPH-D (C10-C24)	TPH-G (C6-C12)	Benzene	Toluene	Ethylbenzene	Xylenes	DIPE	ETBE	MTBE	TAME	TBA [2]	Methanol	Ethanol
				(all results reported in milligrams per kilogram)												
SS-01	Tank Excavation Floor (vent side-north end)	2 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-02	Tank Excavation Floor (vent side-north end)	4 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-03	Tank Excavation Floor (fill side-south end)	2 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-04	Tank Excavation Floor (fill side-south end)	4 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-05	Piping Trench Floor (east end)	4 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-06	Piping Trench Floor (east end)	6 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-07	Piping Trench Floor (west end)	4 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-08	Piping Trench Floor (west end)	6 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-09	Dispenser Floor (west side)	4 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SP-01	Stockpile	NA [3]	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SP-02	Stockpile	NA [3]	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SP-03	Stockpile	NA [3]	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SP-04	Stockpile	NA [3]	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$

Notes:
1 - see Figure 3 for UST location
2 - results for TBA are reported as ND to the laboratory's method detection limit
bsg - below surface grade
DIPE - diisopropyl ether
ETBE - ethyl tertiary-butyl ether
MTBE - methyl tertiary butyl ether
J - result less than reporting limit but greater than method detection limit and is therefore estimated
NA - not applicable
ND_x - not detected above "x" laboratory detection limits
TAME - tertiary amyl-methyl ether
TBA - tertiary butyl alcohol
TPH-D - total petroleum hydrocarbons as diesel (carbon chain range C10 to C24)
TPH-G - total petroleum hydrocarbons as gasoline (carbon chain range C6 to C12)
UST - underground storage tank

FIGURES

DRAWING NUMBER: 135823-A1

IMAGE	X-REF	OFFICE	DRAWN BY		CHECKED BY	APPROVED BY
--		Concord	SJZ	6/10/09		



SCALE

0 2000 4000 FEET

REFERENCE: 7.5' USGS TOPOGRAPHIC QUADRANGLE OF: BALDWIN PARK CA. PHOTOREVISED 1981

Shaw® Shaw Environmental, Inc.

VERIZON CORPORATE SERVICES GROUP

FIGURE 1

SITE VICINITY MAP

VERIZON – IRWINDALE FACILTY
5010 AZUSA CANYON ROAD

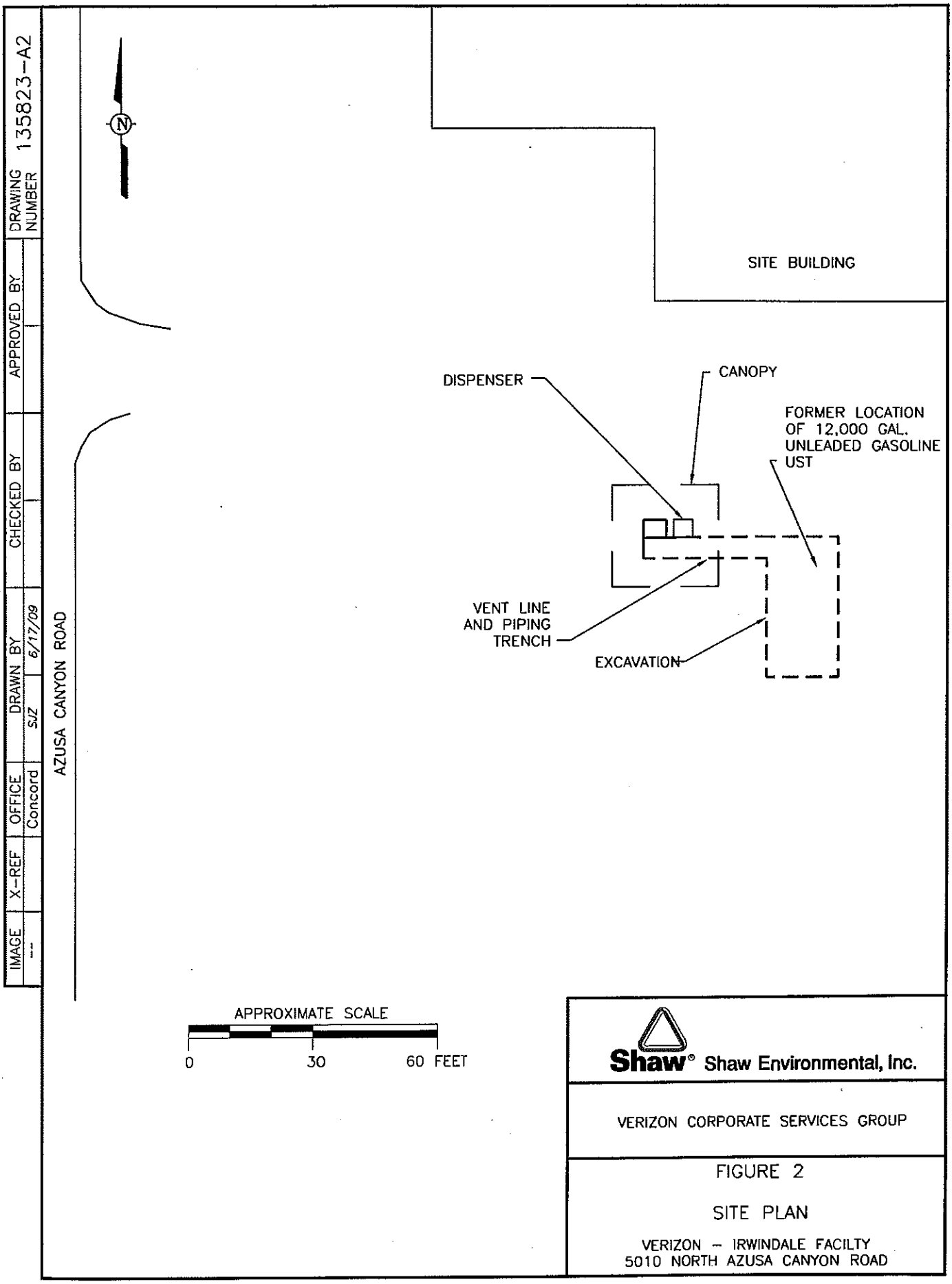


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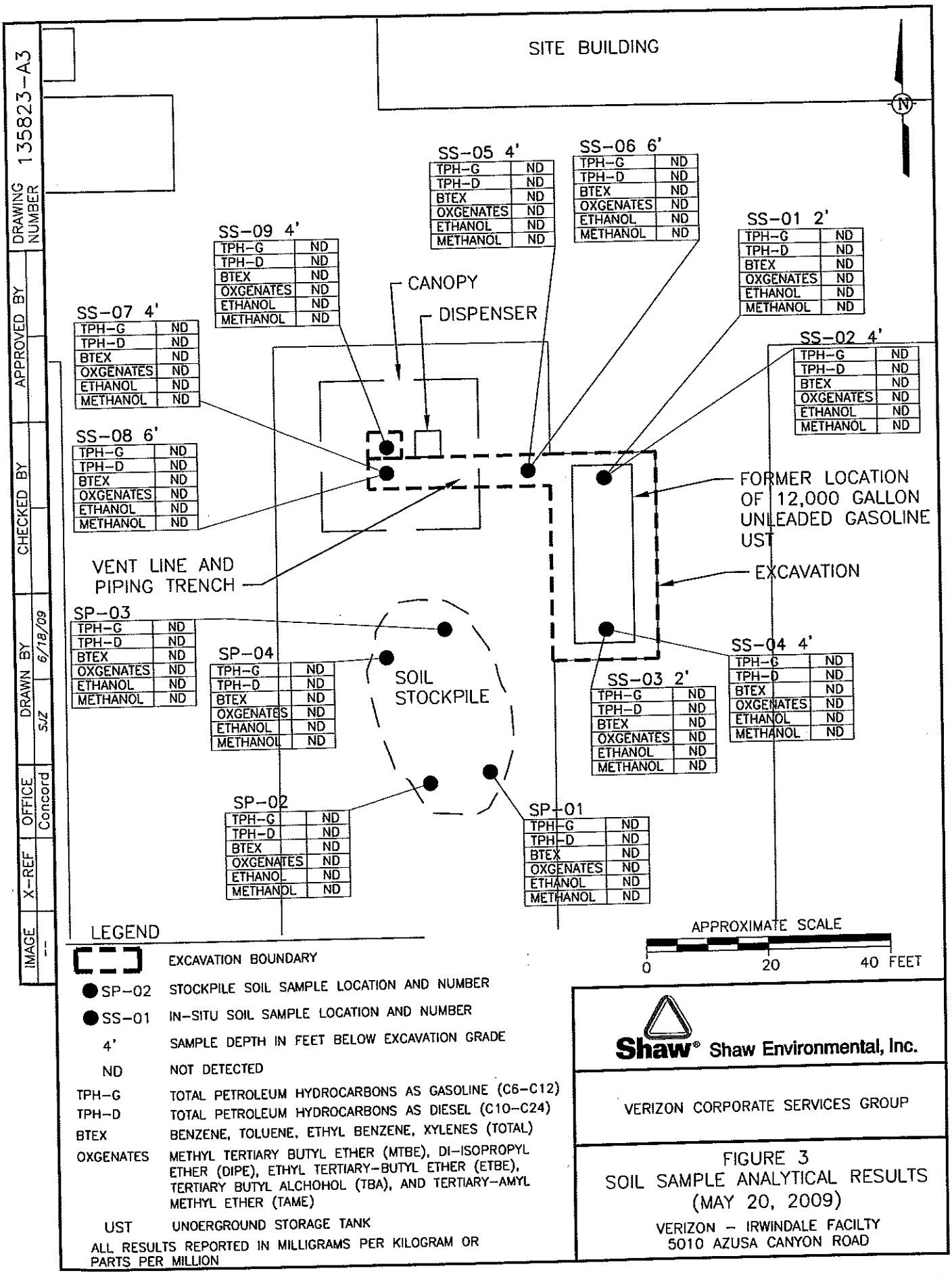
FIGURE 2

SITE PLAN

VERIZON – IRWINDALE FACILTY
5010 NORTH AZUSA CANYON ROAD


SITE BUILDING
N
SS-05 4'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SS-06 6'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SS-01 2'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SS-09 4'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
CANOPY
DISPENSER
SS-07 4'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SS-02 4'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SS-08 6'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
FORMER LOCATION OF 12,000 GALLON UNLEADED GASOLINE UST
EXCAVATION
VENT LINE AND PIPING TRENCH
SP-03
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SP-04
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SOIL STOCKPILE
SS-04 4'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SS-03 2'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SP-02
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SP-01
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
APPROXIMATE SCALE
0 20 40 FEET
LEGEND
EXCAVATION BOUNDARY
SP-02 STOCKPILE SOIL SAMPLE LOCATION AND NUMBER
SS-01 IN-SITU SOIL SAMPLE LOCATION AND NUMBER
4' SAMPLE DEPTH IN FEET BELOW EXCAVATION GRADE
ND NOT DETECTED
TPH-G TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (C6-C12)
TPH-D TOTAL PETROLEUM HYDROCARBONS AS DIESEL (C10-C24)
BTEX BENZENE, TOLUENE, ETHYL BENZENE, XYLENES (TOTAL)
OXGENATES METHYL TERTIARY BUTYL ETHER (MTBE), DI-ISOPROPYL ETHER (DIPE), ETHYL TERTIARY-BUTYL ETHER (ETBE), TERTIARY BUTYL ALCHOHOL (TBA), AND TERTIARY-AMYL METHYL ETHER (TAME)
UST UNDERGROUND STORAGE TANK
ALL RESULTS REPORTED IN MILLIGRAMS PER KILOGRAM OR PARTS PER MILLION
Shaw® Shaw Environmental, Inc.
VERIZON CORPORATE SERVICES GROUP
FIGURE 3
SOIL SAMPLE ANALYTICAL RESULTS (MAY 20, 2009)
VERIZON - IRWINDALE FACILTY
5010 AZUSA CANYON ROAD
DRAWING NUMBER 135823-A3
APPROVED BY
CHECKED BY
DRAWN BY SJZ 6/18/09
OFFICE Concord
X-REF
IMAGE --

FORM VALID JULY 1, 2008 TO JUNE 30, 2009

APPLICATION FOR CLOSURE

FOR HAZARDOUS MATERIAL UNDERGROUND STORAGE TANKS
COUNTY OF LOS ANGELES, DEPARTMENT OF PUBLIC WORKS
Environmental Programs Division
900 South Fremont Avenue, 3rd Floor Annex Building
Alhambra, CA 91803-1331
Ph No. (626) 458-3517 Fax No. (626) 458-3569
www.888CleanLA.com

DPW USE ONLY:
SITE-FILE NO. 3755-3882
APPLICATION NO. 591016 AREA 35
CHECK [ ] CASH [ ] OTHER [ ]
FEE $ _____

TANK OWNER: Contact Name: Zachary D. Feingold Phone: (909) 620-5498
Mailing Address: P.O. Box 725 City: Chino State: CA Zip: 91708

FACILITY/SITE: Occupant Name: Verizon California Inc. Phone: (818) 960-3175
Site Address: 5010 North Azusa Canyon Rd. City: Baldwin Park State: CA Zip: 91706
Mailing Address: 5010 North Azusa Canyon Rd. City: Baldwin Park State: CA Zip: 91706
Contact Person: Zachary D. Feingold Title: Environment Management

CONTRACTOR ☐ OWNER/OPERATOR AS CONTRACTOR ☐
Contractor Name: ~~Sunwest Engineering Constructors Inc.~~ Tarr Inc. Phone: ~~(909) 594-9850~~
State License No.: ~~709190~~ 588098 Class: A, B, HAZ

Contractors Shall Be Hazardous Substance Removal Certified "HAZ" per Business & Professions Code Division 3, Chapter 9, Article 4, §7058.7 (e)

CLOSURE REQUESTED: Closure of Underground Storage Tanks (USTs) shall be in compliance with California Health and Safety Code Division 20, Chapter 6.7, §25298, and California Code of Regulations Title 23, Division 3, Chapter 16, Sections 2670 through 2672.

HOW MANY UNDERGROUND STORAGE TANKS WILL REMAIN AFTER THIS CLOSURE? 0 EXISTING HMUSP NO.: AR0004710

- ■ PERMANENT, UST REMOVAL (See CCR, Title 23, Division 3, Chapter 16, §2672(b))
- ☐ PERMANENT, CLOSURE IN PLACE (See CCR, Title 23, Division 3, Chapter 16, §2672(c)) - Attach Justification Statement
- ☐ TEMPORARY CLOSURE (See CCR, Title 23, Division 3, Chapter 16, §2671)
- ☐ OTHER (PIPING, UNDER DISPENSER CONTAINMENT, ETC): _____

PLOT PLAN ATTACHED ☒ Show existing tanks, product piping and dispenser locations.

NO. OF USTs TO BE CLOSED	*	UST ID NO. (DPW USE ONLY)	CAPACITY GALLONS	MATERIALS STORED (PAST/PRESENT)	CLOSURE APPLICATION FEE
1			12,000	Unleaded Gasoline	$430.00
2					$529.00
3					$628.00
4					$727.00
5					$826.00
6 (+ ATTACH LIST)					$331.00 + $99.00/PER TANK =

	YES	NO
Has an unauthorized release ever occurred at this site?	☒	☐
Has a structural repair ever been made to these tanks?	☐	☒
Will new underground storage tanks be installed after closure?	☐	☒
Will any wells, including monitoring wells, be abandoned?	☐	☒

NOTICE: CONTAMINATED TANKS AND RESIDUES IN TANKS TO BE CLOSED, MAY BE HAZARDOUS WASTE WHICH MUST BE TRANSPORTED AND DISPOSED OF PURSUANT TO CALIFORNIA HEALTH AND SAFETY CODE DIVISON 20, CHAPTER 6.5 AND MUST BE REPORTED IN THE CLOSURE REPORT. FAILURE TO COMPLY MAY BE PROSECUTED AS A FELONY VIOLATION.

By signature below the applicant certifies that all statements and disclosures above are true and correct and that they have read and agree to abide by this permit and all conditions and limitations on the back and attached.

Applicant's Signature: Cristina Meza Date 11/6/08
(Print Name) Cristina Meza Phone (951) 870-0451
Owner ☐ Operator ☐ Contractor ☒

TO BE COMPLETED BY THE DEPARTMENT OF PUBLIC WORKS

PURSUANT TO SECTION 11.80.070B, LOS ANGELES COUNTY CODE, PERMISSION IS HEREBY GRANTED TO PROCEED WITH THE CLOSURE DESCRIBED ABOVE SUBJECT TO THE ATTACHED CONDITIONS AND LIMITATIONS.

THIS AUTHORIZATION EXPIRES: 05/06/09 *****SEE ATTACHMENTS*****

DEAN D. EFSTATHIOU
Acting Director of Public Works

By: _____ Date: 11/06/08

LIMITED FOCUSED
PHASE II SITE ASSESSMENT

Verizon Irwindale Plant Yard
5010 Azusa Canyon Rd
Irwindale CA 91706-1884

Prepared for:

Verizon California Incorporated
Environmental Affairs CA301HJ
Post Office Box 725
Chino, CA 91708

November 26, 2001

Project No. 2367-00

Prepared by:
HYDROLOGUE INC.

Seyed Morteza Mortazavi, Ph.D.
Principal Hydrogeologist/Engineer
C.HG. No. 516

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FIGURES
Figure 1 Site Location Map
Figure 2 Site Plan

TABLES
Table 1 Analytical Test Results of Samples

APPENDICES
Appendix A: Chain of Custody Records and Analytical Reports
Appendix B: Field Notes

1.0 INTRODUCTION

Hydrologue Inc (HI) was retained by Verizon the property owner to conduct a limited Focused Phase II Site assessment at the property located at 5010 Azusa Canyon Rd, Irwindale CA 91706-1884.

Verizon staff had observed that runoff from the adjacent property was directed toward the northern and eastern boundary of the Verizon facility. Hence under the direction of Mr. Masood Choudhury of Verizon, soil samples were collected and analytically tested to verify if the runoff from the adjacent property have impacted Verizon's property.

1.1 Scope of Work

The scope of work for this limited Phase II investigation, as directed by Mr. Masood Choudhury was as follows:

- Drilling and soil sampling of four shallow soil borings in the suspect areas to a depth of 1-2 feet below ground surface (bgs) using a hand auger
- Analytical testing of all soil samples for Volatile Organic Compounds (VOCs) using EPA Method 8260 and total recoverable petroleum hydrocarbons (TRPH) using EPA Method 418.1, Selected Metals, lead and Chromium using EPA 6010B
- Data analysis and preparation of this report

2.0 FIELD INVESTIGATION

The locations of the proposed borings were marked with wooden stakes. Soil borings B-1 through B-4 (Figure 2) were drilled along the property line where the runoff from the adjacent IRSCO Industrial Park property was directed towards the northern and eastern boundary of the Verizon facility.

2.1 Shallow Soil Sampling

Four shallow soil borings (Figure 2) were drilled and sampled on November 9, 2001. The borings were drilled in areas as suspected by Verizon as discussed in above. Each boring was drilled using a hand auger to a maximum depth of approx. 1 foot below ground surface (bgs). Soil sampling was accomplished using a stainless steel hand core sampler equipped with a sliding drive hammer. Due to systematic refusal at about 1 foot bgs due to the prevalence of cobbles in the soil, HI could not drill deeper. After multiple attempts to drive a tip using a hammer and breaker bar, and sample at deeper locations, HI determined that hand auger and hand sampling techniques would not be feasible at deeper sampling depths.

To minimize the potential for cross-contamination, all hand augers and core sampler parts were cleaned of excess dirt and moisture prior to use and between sampling episodes. Prior to use, core sampler was washed in a non-phosphate cleanser solution, rinsed with tap water and then distilled water. The soil samples were collected in two 2.5-inch diameter by 3-inch long brass sleeves mounted within a 2.5-inch diameter hand core sampler. The drive sampler was hand driven into the undisturbed soil at each sampling depth. After sample recovery, the ends of the tube were covered with Teflon sheet and plastic caps and sealed with silicon tape over the ends. The samples were labeled with sample identification, date and time of sampling and HI project number, and sealed in Ziploc™ plastic bags. The plastic bags containing the soil samples were then immediately placed into an ice chest chilled using crushed ice. Prior to use, all the tubes were washed in a non-phosphate cleanser solution rinsed with tap water and then distilled water.

The soil cuttings from the hand auger borings were logged in accordance with the Unified Soil Classification System (USCS). Soil cuttings were screened for organic vapors in the field using a Photovac 2020 photoionization air monitor calibrated to an isobutylene standard.

3.0 LABORATORY ANALYSIS

The soil samples collected on November 9, 2001 were analytically tested offsite by Associated Laboratory (AL). AL is State certified for hazardous waste testing (Certification No. 1338) using a 48-hour turn-around-time. The soil samples were analyzed for Volatile Organic Compounds (VOCs) using EPA Method 8260 and total recoverable petroleum hydrocarbons (TRPH) using EPA Method 418.1, Selected Metals, lead and Chromium using EPA 6010B. All analysis were conducted within 72 hours following sampling. The laboratory reports are contained in Appendix A.

TABLE 1

Analytical Testing Results
(mg/kg)

Sample ID	TRPH	Chromium	Lead	VOCs
B-1@1'	14	20.2	5.65	ND
B-2@1'	16	13.9	6.52	ND
B-3@1'	34	20.1	7.47	ND
B-4@1.5'	12	10.3	5.16	ND

ND = Not Detected See laboratory results for detection limit
Concentrations in milligrams per kilograms (mg/kg)
Please refer to Appendix A for the results.

4.0 SITE CHARACTERIZATION

4.1 Analytical Testing

Analytical test results indicate that Total Recoverable Petroleum Hydrocarbons (TRPH), lead and Chromium concentrations were detected above the laboratory reporting limit for all of soil samples collected from the proximity of the runoff generated from the adjacent facility. The highest concentrations of TRPH was detected in soil samples B-3@1' (34 mg/Kg). The highest concentrations of chromium was detected in soil samples B-1@1' (20.2 mg/Kg). The highest concentrations of lead was detected in soil samples B-3@1' (7.47mg/Kg). No VOCs were detected in any of the soil samples collected.

Taking into consideration the concentrations of TRPH in the soil samples from the proximity of industrial waste discharge area, it is HI opinion that the hydrocarbon contamination in the above mentioned soil samples appears to have originated from the runoff from the adjacent facility.

4.2 Depth to Groundwater

Publicly available information indicates that the depth to usable groundwater in the vicinity of the Site is 236.5 feet bgs. This is based on information from Well #4259B (ground surface elevation of 450.00 feet above MSL) located on Lante St and Sandstone Street (to the northwest of the Site) last measured on 03/30/2001 (personal communication with Jemarie, County of Los Angeles Department of Public Works, Hydrology Division, November 26, 2001).

5.0 CONCLUSIONS

Based on the analytical test results, the following conclusions are made:

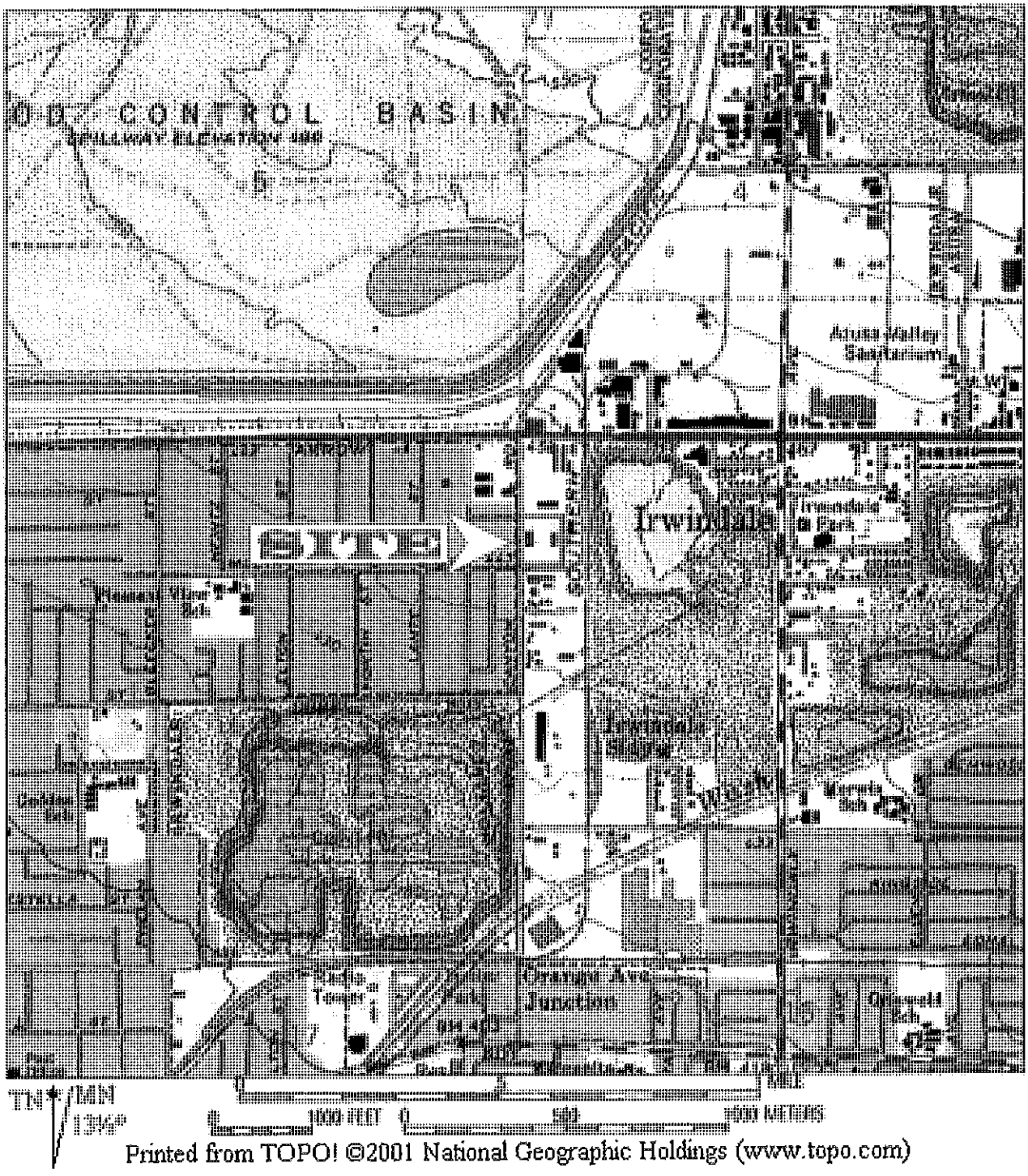
- Analytical test results indicate that TRPH, lead and chromium concentrations were detected above the laboratory reporting limit for the soil samples collected from the proximity of the discharge generated from the adjacent facility. No VOCs were detected in any of the soil samples collected. It is possible that excessive industrial discharge from the adjacent facility impacted the soil within Verizon's property.
- Taking into consideration the concentrations of TRPH in the soil samples, it is HI opinion that the hydrocarbon contamination in the above mentioned soil samples appears to have originated from the runoff from the adjacent IRSCO Industrial Park.
- HI recommends that Verizon contact adjacent property, IRSCO Industrial Park to improve its house keeping practices and discontinue any industrial discharge.
- HI recommends to drill four soil borings to a depth of 20 feet bgs using a drilling rig or trenching using a backhoe and collect background samples within the Site to compare concentrations of the background samples with those obtained where runoff was entering Verizon property.

6. 0 LIMITATIONS

Our professional services have been performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities. This report has been prepared for Verizon Only. The conclusions and recommendations included in this report are based on information contained or referenced herein, and our best judgment. No other warranty, expressed or implied, is made as to the professional advice contained in this report.

Z:\REPORTS\Verizon\Irwindale\Phase 2 Report.doc

FIGURES



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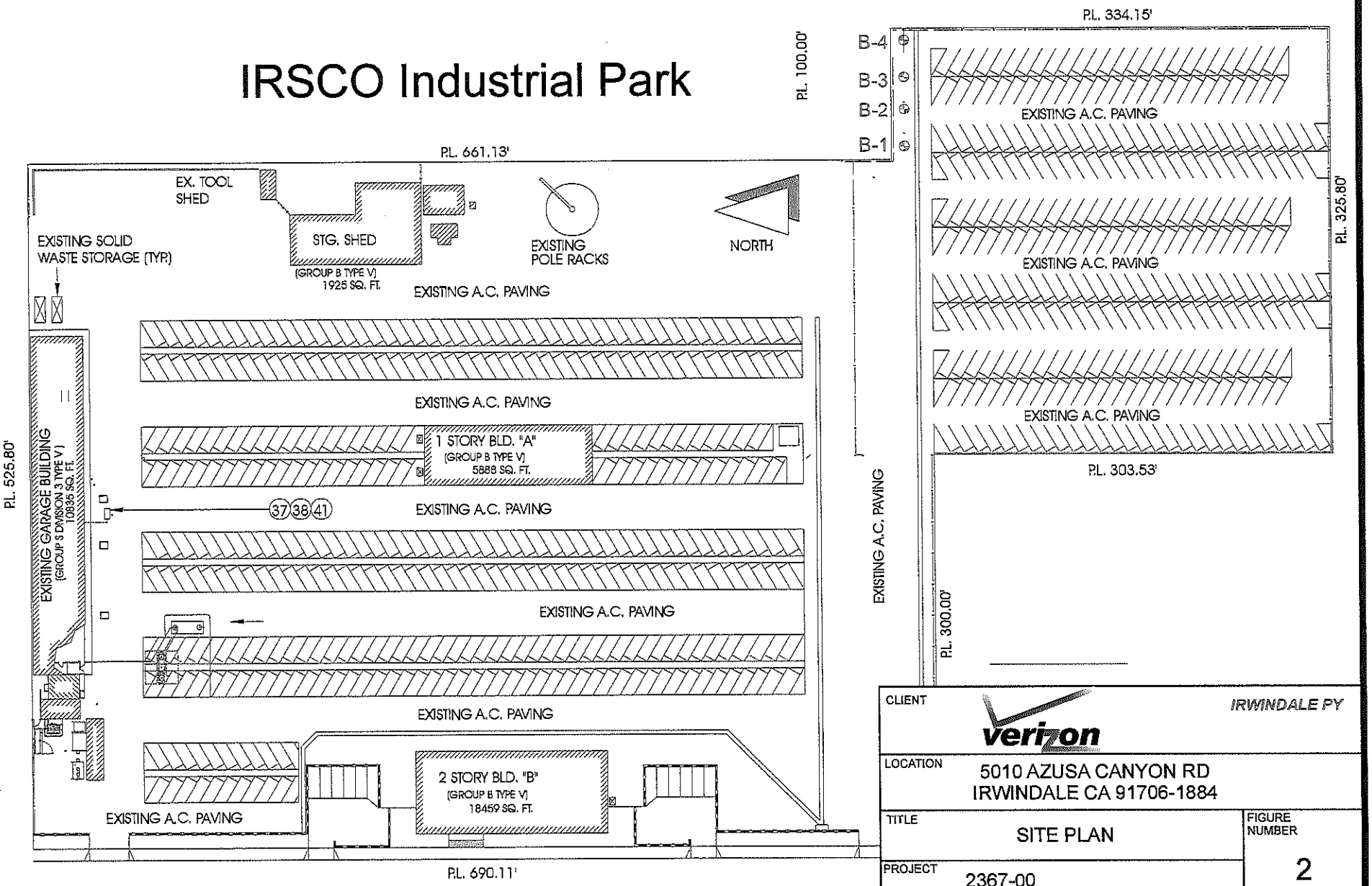
N

CLIENT	verizon — IRWINDALE PY
LOCATION	5010 AZUSA CANYON RD IRWINDALE CA 91706-1884
TITLE	SITE LOCATION MAP
FIGURE NUMBER	1
PROJECT	2367-00
	GTE SM:LM.CDR

hydrologue, Inc.
Consulting Engineers & Geologists

IRSCO Industrial Park



CLIENT	Verizon — IRWINDALE PY
LOCATION	5010 AZUSA CANYON RD IRWINDALE CA 91706-1884
TITLE	SITE PLAN
FIGURE NUMBER	2
PROJECT	2367-00
	VZ SITEPL.CDR

hydrologue, Inc.
Consulting Engineers & Geologists

APPENDIX A

Chain of Custody Records and Analytical Reports

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 *FAX 714/538-1209*

CLIENT Hydrologue, Inc. (6979)
ATTN: Seyed Mortazavi
2793 East Foothill Blvd.
Pasadena, CA 91107-3400

LAB REQUEST 83088
REPORTED 11/20/2001
RECEIVED 11/09/2001

PROJECT #2367-00/Verizon - Irwindale

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
306252	B-1 @ 1.0'
306253	B-2 @ 1.0'
306254	B-3 @ 1.0'
306255	B-4 @ 1.5'

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 306252 **Client:** Hydrologue, Inc.
Matrix: SOLID **Client Sample ID:** B-1 @ 1.0'
Date Sampled: 11/09/2001
Time Sampled: 09:09
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
418.1 Total Recoverable Petroleum Hydrocarbons						
Total Recoverable Petroleum Hydrocarbons	14	1	10	mg/Kg	11/16/01	TN
6010B ICP Metals - Solid/Liquid						
Chromium	20.2	1	1.00	mg/Kg	11/19/01	KN
Lead	5.65	1	0.50	mg/Kg	11/19/01	MS
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	11/15/01	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	11/15/01	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	11/15/01	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,4-Dioxane	ND	1	200	ug/Kg	11/15/01	DP
1-Chlorohexane	ND	1	5	ug/Kg	11/15/01	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	11/15/01	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	11/15/01	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 306252 **Client:** Hydrologue, Inc.
Matrix: SOLID **Client Sample ID:** B-1 @ 1.0'
Date Sampled: 11/09/2001
Time Sampled: 09:09
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	11/15/01 DP
2-Chlorotoluene	ND	1	5	ug/Kg	11/15/01 DP
2-Hexanone	ND	1	5	ug/Kg	11/15/01 DP
4-Chlorotoluene	ND	1	5	ug/Kg	11/15/01 DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	11/15/01 DP
Acetone	ND	1	5	ug/Kg	11/15/01 DP
Acetonitrile	ND	1	5	ug/Kg	11/15/01 DP
Acrolein	ND	1	200	ug/Kg	11/15/01 DP
Acrylonitrile	ND	1	5	ug/Kg	11/15/01 DP
Allyl chloride	ND	1	5	ug/Kg	11/15/01 DP
Benzene	ND	1	5	ug/Kg	11/15/01 DP
Benzyl chloride	ND	1	5	ug/Kg	11/15/01 DP
Bromobenzene	ND	1	5	ug/Kg	11/15/01 DP
Bromochloromethane	ND	1	5	ug/Kg	11/15/01 DP
Bromodichloromethane	ND	1	5	ug/Kg	11/15/01 DP
Bromoform	ND	1	5	ug/Kg	11/15/01 DP
Bromomethane	ND	1	5	ug/Kg	11/15/01 DP
Carbon Disulfide	ND	1	5	ug/Kg	11/15/01 DP
Carbon tetrachloride	ND	1	5	ug/Kg	11/15/01 DP
Chlorobenzene	ND	1	5	ug/Kg	11/15/01 DP
Chloroethane	ND	1	5	ug/Kg	11/15/01 DP
Chloroform	ND	1	5	ug/Kg	11/15/01 DP
Chloromethane	ND	1	5	ug/Kg	11/15/01 DP
Dibromochloromethane	ND	1	5	ug/Kg	11/15/01 DP
Dibromomethane	ND	1	5	ug/Kg	11/15/01 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	11/15/01 DP
Ethyl benzene	ND	1	5	ug/Kg	11/15/01 DP
Ethyl methacrylate	ND	1	5	ug/Kg	11/15/01 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	11/15/01 DP
Iodomethane	ND	1	5	ug/Kg	11/15/01 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	11/15/01 DP
Methacrylonitrile	ND	1	5	ug/Kg	11/15/01 DP
Methyl methacrylate	ND	1	5	ug/Kg	11/15/01 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 306252
Matrix: SOLID
Date Sampled: 11/09/2001
Time Sampled: 09:09
Sampled By:

Client: Hydrologue, Inc.
Client Sample ID: B-1 @ 1.0'

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	11/15/01 DP
Methylene chloride	ND	1	5	ug/Kg	11/15/01 DP
Naphthalene	ND	1	5	ug/Kg	11/15/01 DP
Pentachloroethane	ND	1	5	ug/Kg	11/15/01 DP
Propionitrile	ND	1	5	ug/Kg	11/15/01 DP
Styrene	ND	1	5	ug/Kg	11/15/01 DP
Tetrachloroethene	ND	1	5	ug/Kg	11/15/01 DP
Toluene	ND	1	5	ug/Kg	11/15/01 DP
Trichloroethene	ND	1	5	ug/Kg	11/15/01 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	11/15/01 DP
Vinyl acetate	ND	1	50	ug/Kg	11/15/01 DP
Vinyl chloride	ND	1	5	ug/Kg	11/15/01 DP
Xylenes, total	ND	1	5	ug/Kg	11/15/01 DP
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	11/15/01 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	11/15/01 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	11/15/01 DP
m and p-Xylene	ND	1	5	ug/Kg	11/15/01 DP
n-Butylbenzene	ND	1	5	ug/Kg	11/15/01 DP
n-Propylbenzene	ND	1	5	ug/Kg	11/15/01 DP
o-Xylene	ND	1	5	ug/Kg	11/15/01 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	11/15/01 DP
sec-Butylbenzene	ND	1	5	ug/Kg	11/15/01 DP
tert-Butylbenzene	ND	1	5	ug/Kg	11/15/01 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	11/15/01 DP
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	11/15/01 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	11/15/01 DP

LR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 306253
Matrix: SOLID
Date Sampled: 11/09/2001
Time Sampled: 09:33
Sampled By:

Client: Hydrologue, Inc.
Client Sample ID: B-2 @ 1.0'

Analyte	Result	DF	DLR	Units	Date/Analyst	
418.1 Total Recoverable Petroleum Hydrocarbons						
Total Recoverable Petroleum Hydrocarbons	16	1	10	mg/Kg	11/16/01	TN
6010B ICP Metals - Solid/Liquid						
Chromium	13.9	1	1.00	mg/Kg	11/19/01	KN
Lead	6.52	1	0.50	mg/Kg	11/19/01	MS
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	11/15/01	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	11/15/01	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	11/15/01	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,4-Dioxane	ND	1	200	ug/Kg	11/15/01	DP
1-Chlorohexane	ND	1	5	ug/Kg	11/15/01	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	11/15/01	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	11/15/01	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 306253
Matrix: SOLID
Date Sampled: 11/09/2001
Time Sampled: 09:33
Sampled By:

Client: Hydrologue, Inc.
Client Sample ID: B-2 @ 1.0'

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	11/15/01	DP
2-Chlorotoluene	ND	1	5	ug/Kg	11/15/01	DP
2-Hexanone	ND	1	5	ug/Kg	11/15/01	DP
4-Chlorotoluene	ND	1	5	ug/Kg	11/15/01	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	11/15/01	DP
Acetone	ND	1	5	ug/Kg	11/15/01	DP
Acetonitrile	ND	1	5	ug/Kg	11/15/01	DP
Acrolein	ND	1	200	ug/Kg	11/15/01	DP
Acrylonitrile	ND	1	5	ug/Kg	11/15/01	DP
Allyl chloride	ND	1	5	ug/Kg	11/15/01	DP
Benzene	ND	1	5	ug/Kg	11/15/01	DP
Benzyl chloride	ND	1	5	ug/Kg	11/15/01	DP
Bromobenzene	ND	1	5	ug/Kg	11/15/01	DP
Bromochloromethane	ND	1	5	ug/Kg	11/15/01	DP
Bromodichloromethane	ND	1	5	ug/Kg	11/15/01	DP
Bromoform	ND	1	5	ug/Kg	11/15/01	DP
Bromomethane	ND	1	5	ug/Kg	11/15/01	DP
Carbon Disulfide	ND	1	5	ug/Kg	11/15/01	DP
Carbon tetrachloride	ND	1	5	ug/Kg	11/15/01	DP
Chlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
Chloroethane	ND	1	5	ug/Kg	11/15/01	DP
Chloroform	ND	1	5	ug/Kg	11/15/01	DP
Chloromethane	ND	1	5	ug/Kg	11/15/01	DP
Dibromochloromethane	ND	1	5	ug/Kg	11/15/01	DP
Dibromomethane	ND	1	5	ug/Kg	11/15/01	DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	11/15/01	DP
Ethyl benzene	ND	1	5	ug/Kg	11/15/01	DP
Ethyl methacrylate	ND	1	5	ug/Kg	11/15/01	DP
Hexachlorobutadiene	ND	1	5	ug/Kg	11/15/01	DP
Iodomethane	ND	1	5	ug/Kg	11/15/01	DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	11/15/01	DP
Methacrylonitrile	ND	1	5	ug/Kg	11/15/01	DP
Methyl methacrylate	ND	1	5	ug/Kg	11/15/01	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 306253
Matrix: SOLID
Date Sampled: 11/09/2001
Time Sampled: 09:33
Sampled By:

Client: Hydrologue, Inc.
Client Sample ID: B-2 @ 1.0'

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	11/15/01 DP
Methylene chloride	ND	1	5	ug/Kg	11/15/01 DP
Naphthalene	ND	1	5	ug/Kg	11/15/01 DP
Pentachloroethane	ND	1	5	ug/Kg	11/15/01 DP
Propionitrile	ND	1	5	ug/Kg	11/15/01 DP
Styrene	ND	1	5	ug/Kg	11/15/01 DP
Tetrachloroethene	ND	1	5	ug/Kg	11/15/01 DP
Toluene	ND	1	5	ug/Kg	11/15/01 DP
Trichloroethene	ND	1	5	ug/Kg	11/15/01 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	11/15/01 DP
Vinyl acetate	ND	1	50	ug/Kg	11/15/01 DP
Vinyl chloride	ND	1	5	ug/Kg	11/15/01 DP
Xylenes, total	ND	1	5	ug/Kg	11/15/01 DP
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	11/15/01 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	11/15/01 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	11/15/01 DP
m and p-Xylene	ND	1	5	ug/Kg	11/15/01 DP
n-Butylbenzene	ND	1	5	ug/Kg	11/15/01 DP
n-Propylbenzene	ND	1	5	ug/Kg	11/15/01 DP
o-Xylene	ND	1	5	ug/Kg	11/15/01 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	11/15/01 DP
sec-Butylbenzene	ND	1	5	ug/Kg	11/15/01 DP
tert-Butylbenzene	ND	1	5	ug/Kg	11/15/01 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	11/15/01 DP
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	11/15/01 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	11/15/01 DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 306254
Matrix: SOLID
Date Sampled: 11/09/2001
Time Sampled: 09:45
Sampled By:

Client: Hydrologue, Inc.
Client Sample ID: B-3 @ 1.0'

Analyte	Result	DF	DLR	Units	Date/Analyst	
418.1 Total Recoverable Petroleum Hydrocarbons						
Total Recoverable Petroleum Hydrocarbons	34	1	10	mg/Kg	11/16/01	TN
6010B ICP Metals - Solid/Liquid						
Chromium	20.1	1	1.00	mg/Kg	11/19/01	KN
Lead	7.47	1	0.50	mg/Kg	11/19/01	MS
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	11/15/01	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	11/15/01	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	11/15/01	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,4-Dioxane	ND	1	200	ug/Kg	11/15/01	DP
1-Chlorohexane	ND	1	5	ug/Kg	11/15/01	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	11/15/01	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	11/15/01	DP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 306254 **Client:** Hydrologue, Inc.
Matrix: SOLID **Client Sample ID:** B-3 @ 1.0'
Date Sampled: 11/09/2001
Time Sampled: 09:45
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	11/15/01	DP
2-Chlorotoluene	ND	1	5	ug/Kg	11/15/01	DP
2-Hexanone	ND	1	5	ug/Kg	11/15/01	DP
4-Chlorotoluene	ND	1	5	ug/Kg	11/15/01	DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	11/15/01	DP
Acetone	ND	1	5	ug/Kg	11/15/01	DP
Acetonitrile	ND	1	5	ug/Kg	11/15/01	DP
Acrolein	ND	1	200	ug/Kg	11/15/01	DP
Acrylonitrile	ND	1	5	ug/Kg	11/15/01	DP
Allyl chloride	ND	1	5	ug/Kg	11/15/01	DP
Benzene	ND	1	5	ug/Kg	11/15/01	DP
Benzyl chloride	ND	1	5	ug/Kg	11/15/01	DP
Bromobenzene	ND	1	5	ug/Kg	11/15/01	DP
Bromochloromethane	ND	1	5	ug/Kg	11/15/01	DP
Bromodichloromethane	ND	1	5	ug/Kg	11/15/01	DP
Bromoform	ND	1	5	ug/Kg	11/15/01	DP
Bromomethane	ND	1	5	ug/Kg	11/15/01	DP
Carbon Disulfide	ND	1	5	ug/Kg	11/15/01	DP
Carbon tetrachloride	ND	1	5	ug/Kg	11/15/01	DP
Chlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
Chloroethane	ND	1	5	ug/Kg	11/15/01	DP
Chloroform	ND	1	5	ug/Kg	11/15/01	DP
Chloromethane	ND	1	5	ug/Kg	11/15/01	DP
Dibromochloromethane	ND	1	5	ug/Kg	11/15/01	DP
Dibromomethane	ND	1	5	ug/Kg	11/15/01	DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	11/15/01	DP
Ethyl benzene	ND	1	5	ug/Kg	11/15/01	DP
Ethyl methacrylate	ND	1	5	ug/Kg	11/15/01	DP
Hexachlorobutadiene	ND	1	5	ug/Kg	11/15/01	DP
Iodomethane	ND	1	5	ug/Kg	11/15/01	DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	11/15/01	DP
Methacrylonitrile	ND	1	5	ug/Kg	11/15/01	DP
Methyl methacrylate	ND	1	5	ug/Kg	11/15/01	DP

LR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 306254 **Client:** Hydrologue, Inc.
Matrix: SOLID **Client Sample ID:** B-3 @ 1.0'
Date Sampled: 11/09/2001
Time Sampled: 09:45
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	11/15/01 DP
Methylene chloride	ND	1	5	ug/Kg	11/15/01 DP
Naphthalene	ND	1	5	ug/Kg	11/15/01 DP
Pentachloroethane	ND	1	5	ug/Kg	11/15/01 DP
Propionitrile	ND	1	5	ug/Kg	11/15/01 DP
Styrene	ND	1	5	ug/Kg	11/15/01 DP
Tetrachloroethene	ND	1	5	ug/Kg	11/15/01 DP
Toluene	ND	1	5	ug/Kg	11/15/01 DP
Trichloroethene	ND	1	5	ug/Kg	11/15/01 DP
Trichlorofluoromethane	ND	1	5	ug/Kg	11/15/01 DP
Vinyl acetate	ND	1	50	ug/Kg	11/15/01 DP
Vinyl chloride	ND	1	5	ug/Kg	11/15/01 DP
Xylenes, total	ND	1	5	ug/Kg	11/15/01 DP
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	11/15/01 DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	11/15/01 DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	11/15/01 DP
m and p-Xylene	ND	1	5	ug/Kg	11/15/01 DP
n-Butylbenzene	ND	1	5	ug/Kg	11/15/01 DP
n-Propylbenzene	ND	1	5	ug/Kg	11/15/01 DP
o-Xylene	ND	1	5	ug/Kg	11/15/01 DP
p-Isopropyltoluene	ND	1	5	ug/Kg	11/15/01 DP
sec-Butylbenzene	ND	1	5	ug/Kg	11/15/01 DP
tert-Butylbenzene	ND	1	5	ug/Kg	11/15/01 DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	11/15/01 DP
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	11/15/01 DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	11/15/01 DP

LR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 306255 **Client:** Hydrologue, Inc.
Matrix: SOLID **Client Sample ID:** B-4 @ 1.5'
Date Sampled: 11/09/2001
Time Sampled: 09:55
Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst	
418.1 Total Recoverable Petroleum Hydrocarbons						
Total Recoverable Petroleum Hydrocarbons	12	1	10	mg/Kg	11/16/01	TN
010B ICP Metals - Solid/Liquid						
Chromium	10.3	1	1.00	mg/Kg	11/19/01	KN
Lead	5.16	1	0.50	mg/Kg	11/19/01	MS
8260B Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,1-Trichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,2,2-Tetrachloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,2-Trichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1,2-Trichlorotrifluoroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1-Dichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,1-Dichloroethene	ND	1	5	ug/Kg	11/15/01	DP
1,1-Dichloropropene	ND	1	5	ug/Kg	11/15/01	DP
1,2,3-Trichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2,3-Trichloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,2,4-Trichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2,4-Trimethylbenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dibromo-3-chloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dibromoethane	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dichloroethane	ND	1	5	ug/Kg	11/15/01	DP
1,2-Dichloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,3,5-Trimethylbenzene	ND	1	5	ug/Kg	11/15/01	DP
1,3-Dichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,3-Dichloropropane	ND	1	5	ug/Kg	11/15/01	DP
1,4-Dichlorobenzene	ND	1	5	ug/Kg	11/15/01	DP
1,4-Dioxane	ND	1	200	ug/Kg	11/15/01	DP
1-Chlorohexane	ND	1	5	ug/Kg	11/15/01	DP
2,2-Dichloropropane	ND	1	5	ug/Kg	11/15/01	DP
2-Butanone (MEK)	ND	1	100	ug/Kg	11/15/01	DP

LR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 306255
Matrix: SOLID
Date Sampled: 11/09/2001
Time Sampled: 09:55
Sampled By:

Client: Hydrologue, Inc.
Client Sample ID: B-4 @ 1.5'

Analyte	Result	DF	DLR	Units	Date/Analyst
8260B Volatile Organic Compounds					
2-Chloroethyl vinyl ether	ND	1	5	ug/Kg	11/15/01 DP
2-Chlorotoluene	ND	1	5	ug/Kg	11/15/01 DP
2-Hexanone	ND	1	5	ug/Kg	11/15/01 DP
4-Chlorotoluene	ND	1	5	ug/Kg	11/15/01 DP
4-Methyl -2- Pentanone	ND	1	5	ug/Kg	11/15/01 DP
Acetone	ND	1	5	ug/Kg	11/15/01 DP
Acetonitrile	ND	1	5	ug/Kg	11/15/01 DP
Acrolein	ND	1	200	ug/Kg	11/15/01 DP
Acrylonitrile	ND	1	5	ug/Kg	11/15/01 DP
Allyl chloride	ND	1	5	ug/Kg	11/15/01 DP
Benzene	ND	1	5	ug/Kg	11/15/01 DP
Benzyl chloride	ND	1	5	ug/Kg	11/15/01 DP
Bromobenzene	ND	1	5	ug/Kg	11/15/01 DP
Bromochloromethane	ND	1	5	ug/Kg	11/15/01 DP
Bromodichloromethane	ND	1	5	ug/Kg	11/15/01 DP
Bromoform	ND	1	5	ug/Kg	11/15/01 DP
Bromomethane	ND	1	5	ug/Kg	11/15/01 DP
Carbon Disulfide	ND	1	5	ug/Kg	11/15/01 DP
Carbon tetrachloride	ND	1	5	ug/Kg	11/15/01 DP
Chlorobenzene	ND	1	5	ug/Kg	11/15/01 DP
Chloroethane	ND	1	5	ug/Kg	11/15/01 DP
Chloroform	ND	1	5	ug/Kg	11/15/01 DP
Chloromethane	ND	1	5	ug/Kg	11/15/01 DP
Dibromochloromethane	ND	1	5	ug/Kg	11/15/01 DP
Dibromomethane	ND	1	5	ug/Kg	11/15/01 DP
Dichlorodifluoromethane	ND	1	5	ug/Kg	11/15/01 DP
Ethyl benzene	ND	1	5	ug/Kg	11/15/01 DP
Ethyl methacrylate	ND	1	5	ug/Kg	11/15/01 DP
Hexachlorobutadiene	ND	1	5	ug/Kg	11/15/01 DP
Iodomethane	ND	1	5	ug/Kg	11/15/01 DP
Isopropylbenzene (Cumene)	ND	1	5	ug/Kg	11/15/01 DP
Methacrylonitrile	ND	1	5	ug/Kg	11/15/01 DP
Methyl methacrylate	ND	1	5	ug/Kg	11/15/01 DP

LR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 306255
Matrix: SOLID
Date Sampled: 11/09/2001
Time Sampled: 09:55
Sampled By:

Client: Hydrologue, Inc.
Client Sample ID: B-4 @ 1.5'

Analyte	Result	DF	DLR	Units	Date/Analyst	
8260B Volatile Organic Compounds						
Methyl-tert-butylether (MTBE)	ND	1	5	ug/Kg	11/15/01	DP
Methylene chloride	ND	1	5	ug/Kg	11/15/01	DP
Naphthalene	ND	1	5	ug/Kg	11/15/01	DP
Pentachloroethane	ND	1	5	ug/Kg	11/15/01	DP
Propionitrile	ND	1	5	ug/Kg	11/15/01	DP
Styrene	ND	1	5	ug/Kg	11/15/01	DP
Tetrachloroethene	ND	1	5	ug/Kg	11/15/01	DP
Toluene	ND	1	5	ug/Kg	11/15/01	DP
Trichloroethene	ND	1	5	ug/Kg	11/15/01	DP
Trichlorofluoromethane	ND	1	5	ug/Kg	11/15/01	DP
Vinyl acetate	ND	1	50	ug/Kg	11/15/01	DP
Vinyl chloride	ND	1	5	ug/Kg	11/15/01	DP
Xylenes, total	ND	1	5	ug/Kg	11/15/01	DP
cis-1,2-Dichloroethene	ND	1	5	ug/Kg	11/15/01	DP
cis-1,3-Dichloropropene	ND	1	5	ug/Kg	11/15/01	DP
cis-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	11/15/01	DP
m and p-Xylene	ND	1	5	ug/Kg	11/15/01	DP
n-Butylbenzene	ND	1	5	ug/Kg	11/15/01	DP
n-Propylbenzene	ND	1	5	ug/Kg	11/15/01	DP
o-Xylene	ND	1	5	ug/Kg	11/15/01	DP
p-Isopropyltoluene	ND	1	5	ug/Kg	11/15/01	DP
sec-Butylbenzene	ND	1	5	ug/Kg	11/15/01	DP
tert-Butylbenzene	ND	1	5	ug/Kg	11/15/01	DP
trans-1,2-Dichloroethene	ND	1	5	ug/Kg	11/15/01	DP
trans-1,3-Dichloropropene	ND	1	5	ug/Kg	11/15/01	DP
trans-1,4-Dichloro-2-butene	ND	1	5	ug/Kg	11/15/01	DP

LR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: LR 83088-306255 QC# 111601S1,2

Matrix: SOLID

Prep. Date: 11/16/01

Analysis Date: 11/19/01

Lab ID#'s in Batch: LR 83088, 83120, 83318, 83316, 83161, 69580, 83278, 81959, 83189, 83159, 83432

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Arsenic	6010B	2.70		9.19	12.47	13.34	106.3	115.8	6.7
Selenium	6010B	0.50	U	9.19	7.93	8.83	86.3	96.1	10.7
Thallium	6010B	2.50		9.19	12.70	12.99	111.0	114.1	2.3
Lead	6010B	5.16		18.38	25.11	27.04	108.5	119.0	7.4
Antimony	6010B	3.00	U	91.90	74	75	80.5	81.6	1.3
Barium	* 6010B	45.50		91.90	156	162	120.2	126.8	3.8
Beryllium	6010B	0.50	U	91.90	87	86	94.7	93.6	1.2
Cadmium	6010B	0.77		91.90	85	91	91.7	98.2	6.8
Chromium	6010B	10.30		91.90	96	102	93.3	99.8	6.1
Cobalt	6010B	7.16		91.90	96	103	96.7	104.3	7.0
Copper	6010B	9.11		91.90	100	108	98.9	107.6	7.7
Molybdenum	6010B	1.00	U	91.90	82	87	89.2	94.7	5.9
Nickel	6010B	7.99		91.90	95	101	94.7	101.2	6.1
Silver	6010B	0.50	U	91.90	87	91	94.7	99.0	4.5
Vanadium	6010B	21.80		91.90	113	121	99.2	107.9	6.8
Zinc	6010B	38.20		91.90	130	142	99.9	112.9	8.8
Iron	6010B	13790		91.90	16660	18050	NC	NC	8.0

*** = Outside QC limits, possibly due to matrix interference.**

NC = Not Calculated

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

ASSOCIATED LABORATORIES

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

							Method Blank	
Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	MB	ND
Arsenic	6010B	217.0	200	108.5	80%	120%	0.50	U
Selenium	6010B	215.7	200	107.9	80%	120%	0.50	U
Thallium	6010B	215.3	200	107.7	80%	120%	1.00	U
Lead	6010B	222.3	200	111.2	80%	120%	0.50	U
Antimony	6010B	224.5	200	112.3	80%	120%	3.00	U
Barium	6010B	196.4	200	98.2	80%	120%	1.00	U
Beryllium	6010B	194.5	200	97.3	80%	120%	0.50	U
Cadmium	6010B	223.2	200	111.6	80%	120%	0.50	U
Chromium	6010B	210.6	200	105.3	80%	120%	1.00	U
Cobalt	6010B	217.8	200	108.9	80%	120%	0.50	U
Copper	6010B	212.0	200	106.0	80%	120%	1.00	U
Molybdenum	6010B	199.1	200	99.6	80%	120%	1.00	U
Nickel	6010B	210.5	200	105.3	80%	120%	1.50	U
Silver	6010B	108.4	100	108.4	80%	120%	0.50	U
Vanadium	6010B	208.6	200	104.3	80%	120%	0.50	U
Zinc	6010B	212.1	200	106.1	80%	120%	5.00	U
Aluminum	6010B	214.0	200	107.0	80%	120%	20.00	U
Iron	6010B	208.7	200	104.4	80%	120%	5.00	U
Manganese	6010B	207.2	200	103.6	80%	120%	1.00	U
Boron	6010B	213.8	200	106.9	80%	120%	5.00	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
LCS REPORT FORM - METHOD 8260

Sample ID: LCS # 1

Matrix: SOLID

Analysis Date: 11/15/01

Applies to: LR 83088

Reporting Units = ug/Kg

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	44.62	89	59-172
MTBE	ND	50	54.55	109	62-137
Benzene	ND	50	47.64	95	62-137
Trichloroethene	ND	50	47.94	96	66-142
Toluene	ND	50	48.98	98	59-139
Chlorobenzene	ND	50	48.74	97	59-139

Sample ID: LCS/LCSD - Soil Samples
Analysis Date: 11/16/01

Lab Controlled Spike / Lab Controlled Spike Duplicate

Test	Sample Result	Spike Added	LCS Spike	LCS Spk. Dup	%Rec LCS	%Rec LCS D	RPD	QC Limits RPD	QC Limits %REC
1,1-Dichloroethene	ND	50	45.80	43.86	92	88	4	22	59-172
MTBE	ND	50	57.34	61.43	115	123	7	24	62-137
Benzene	ND	50	47.17	49.02	94	98	4	24	62-137
Trichloroethene	ND	50	48.77	44.09	98	88	10	21	66-142
Toluene	ND	50	48.71	45.12	97	90	8	21	59-139
Chlorobenzene	ND	50	47.52	47.92	95	96	1	21	60-133

Sample ID: LCS # 2

LCS RECOVERY / METHOD BLANK

Test	Sample Result	Spike Added	LCS Spike	%Rec LCS	QC Limits %REC
1,1-Dichloroethene	ND	50	43.99	88	59-172
MTBE	ND	50	62.16	124	62-137
Benzene	ND	50	48.15	96	62-137
Trichloroethene	ND	50	42.22	84	66-142
Toluene	ND	50	45.41	91	59-139
Chlorobenzene	ND	50	47.26	95	59-139

Method Blank = All ND

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LR 82829-305223

Matrix: SOLID

Prep. Date: 11/14/01

Analysis Date: 11/14/01

ID#'s in Batch: LR 82829, 81954, 82589, 81848, 83088, 83161

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

Reporting Units = mg/Kg

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD
TRPH	418.1	ND	38.15	41	43	107.5	112.7	4.8

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate
%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 70 - 130
RPD LIMITS = 30

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

PREP BLK	LCS				
Value	Result	True	%Rec	L.Limit	H.Limit
ND	96	100	96.0	80%	120%

Value = Preparation Blank Value; ND = Not-Detected
LCS Result = Lab Control Sample Result
True = True Value of LCS
L.Limit / H.Limit = LCS Control Limits

Cooler Receipt Form

Client: Verizon (IKWINDALE) Project: /

Cooler Received: 11/9 Cooler Opened: 11/9 By: [illegible]

Signed: [illegible]

Was cooler scanned for presence of radioactivity, and noted if found? (Yes) / No

Were custody seals present on outside of cooler? Yes / (No)

a: If Yes, were they intact? Yes / No

b: Were signature and date correct? Yes / No

Were custody papers completely filled out? (Yes) / No

Did you sign and date the custody papers in the appropriate place? (Yes) / No

Was a shippers packing slip attached to the cooler? Yes / (No)

What kind of packing material was used? Ice

Was sufficient ice used? (Yes) / No Temperature: 0.8°C Date: 11/9

Were all bottles sealed in plastic bags? Yes / (No)

Did all bottles arrive intact? ~~Yes~~ / No

Were all bottles labeled correctly? (ID, Analysis, Dates, Times) (Yes) / No

Were the correct containers included for the tests required? (Yes) / No

Were all VOA vials checked for headspace? (NA) / Yes / No

Was sufficient volume of sample sent in all containers? (Yes) / No

Were correct preservatives used? (Yes) / No

Approved by: [illegible] Date: 11/9

If not approved: Name of person contacted _____ Date: _____

CHAIN-OF-CUSTODY RECORD FORM

IRWINDALE

hydrologue Inc. 01080 PAGE 1 OF 1

Consulting Engineers & Geologists

SAMPLING INFORMATION
SIGNATURE
PRINTED NAME: Matthew W. Mageneer
COMPANY: Hydrologue, Inc.

PROJECT INFORMATION
PROJECT NO./NAME: 2367-00 / Verizon-Irwindale
ADDRESS: 5010 N. Azusa Cyn. Rd.
PROJECT MANAGER: Saeed Mortazavi

SAMPLE INFORMATION
CONDITION/TEMP°C
TURNAROUND TIME

SHIPPING INFORMATION
SHIPPING METHOD
AIRBILL NO.

SAMPLE ID	DATE	TIME	DESCRIPTION	TPH GASOLINE 8015M	TPH DIESEL 8015M	BTEX/MTBE 8020	TRPH 418.1	HVOCs 8010	VOCs 8260	SVOCs 8270	PCBs 8080	CAM METALS	LEAD ORGANIC/TOTAL	200.7/6010 LEAD + CHROMIUM				SAMPLE MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	SPECIAL HANDLING
B-1 @ 1.0'	11/9/01	9:09					/		/					/				S	SS	1	BILL
B-2 @ 1.0'	11/9/01	9:33					/		/					/				S	SS	1	VERIZON DIRECTLY
B-3 @ 1.0'	11/9/01	9:45					/		/					/				S	SS	1	
B-4 @ 1.5'	11/9/01	9:55					/		/					/				S	SS	1	

1 RELINQUISHED BY SIGNATURE: Matthew W. Mageneer PRINTED NAME: Hydrologue, Inc. COMPANY	DATE: 11/9/01 TIME: 1:30	3 RELINQUISHED BY SIGNATURE: LaVoris Jones Jr. PRINTED NAME: LAVORIS JONES JR COMPANY: ASSOC LAB	DATE: 11/9 TIME: 5:45	5 RELINQUISHED BY SIGNATURE PRINTED NAME COMPANY	DATE TIME	REMARKS
2 RECEIVED BY SIGNATURE: LaVoris Jones Jr. PRINTED NAME: LAVORIS D JONES COMPANY: ASSOC LAB	DATE: 11/9/01 TIME: 1:30	4 RECEIVED BY SIGNATURE: D Duong PRINTED NAME: DUONG W COMPANY: Associated Lab	DATE: 11/9 TIME: 5:50	6 RECEIVED BY (LAB) SIGNATURE PRINTED NAME COMPANY: ASSOCIATED	DATE TIME	

2793 E. FOOTHILL BOULEVARD, PASADENA, CA 91107 TEL: (626) 585-9696 FAX: (626) 585-0046

Tman 11-10 7:55

APPENDIX B

Field Notes

ydrologue, Inc.
Consulting Engineers and Geologists

Note : DATA PRESENTED IN THIS LOG IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED AND APPLIES ONLY AT THE SPECIFIC LOCATION AND TIME INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS OR TIMES.

Project : Verizon
Logged By : MW/KR
Location : Irwindale
Start/Finish Date :
Equipment :
Job # : 2367
Boring I.D. : B-1
Elevation :

Sample Quality	DEPTH OF SAMPLE	TIME	PID	Lithologic Description (Soil classification, Color, Grain Size, Moisture, Consistency, Other)	Remarks
		9:09	2.4	0-6" ground (sample taken @	
		Refusal		6" - gravelly silty sand. 1' below soil interface	

Boring I.D: B-2

	9:33	2.0	0-6" ground	
	Refusal		6" to 2.0 gravelly, cobbly silty sand, boulders slightly moist, loose,	

ydrologue, Inc.
Consulting Engineers and Geologists

Note : DATA PRESENTED IN THIS LOG IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED AND APPLIES ONLY AT THE SPECIFIC LOCATION AND TIME INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS OR TIMES.

ject :
gged By :

Location :
Start/Finish Date :
Equipment :

Job # :
Boring I.D. : B-3
Elevation :

DEPTH OF SAMPLE	TIME	PID	Lithologic Description (Soil classification, Color, Grain Size, Moisture, Consistency, Other)	Remarks
	9:45	3.7	0-6" gravel	
	Refusal		6"-2.0 gravelly cobbly silty sandy brn, f-c, slightly moisty loose, mica cons - soc	

Boring I.D: B-4

DEPTH OF SAMPLE	TIME	PID	Lithologic Description (Soil classification, Color, Grain Size, Moisture, Consistency, Other)	Remarks
	9:55	2.6	0-6" gravel	
	Refusal		6"-2.0 gravelly cobbly silty sand, f-c, slightly moisty, loose, mica cons	

B-4

APPENDIX I

RESUMES

STEVE ANDERSON
Staff Scientist

PROFESSIONAL SUMMARY

As a geologist in ATC's Los Angeles, California office, Mr. Anderson has had experience conducting environmental assessment and remediation projects since 1989. Mr. Anderson has performed Phase I site assessments in a wide range of residential, commercial, and industrial settings. He has designed and implemented sampling programs for subsurface assessments, asbestos, lead-in-drinking water, and radon. As a staff scientist, he is responsible for the day-to-day management of of technical and field personnel. Mr. Anderson has performed assessments, sampling projects, and remediation projects for large and small private clients.

PROJECT EXPERIENCE

Market Sector

§ **Environmental Site Assessments / Multiple Acquisition Projects / various locations throughout California.** Prominent clients include Morgan Stanley, Blackrock Realty, Lowe Enterprises, Panattoni Development Company, LaSalle Hotel Properties, SC Fuels, and AvalonBay Communities Corporation, among others. Provided environmental site assessments of commercial and residential properties.

§ **Environmental Site Assessments / Various Southern California Locations.** Provided site assessments of large scale or high profile sites including Neverland Ranch, the former Marineland site, Antelope valley Fairground, and a 650-acre BKK landfill.

§ **Environmental Site Assessments / Multiple Financial Clients / various locations throughout California.** Prominent clients include LaSalle Investment Properties, RREEF, Prudential Mortgage Capital Corporation, CB Richard Ellis, Fortress Investment Company, Union Bank, Bank of America, and Comerica Bank, among others.

§ **Environmental Site Assessments / Various Southern California Locations.** Provided site assessments for national clients including Verizon, Hertz, O'Reilly Auto Parts, and North American Terminals, among others.

§ **Subsurface Investigations / Former Service Station Sites / Multiple Private Clients / Southern California.** Served as Project manager responsible for planning and executing site assessment activities including drilling oversight, logging, soil sampling and groundwater grab sampling at former service station locations in Los Angeles, San Bernardino, and Kern Counties. Primary duties included interaction with subcontractors, owners, and report preparation.

§ **Remediation Management.** / Chevron USA, El Segundo, California / Coordinated remediation of petroleum-contaminated soil at the El Segundo refinery.

EDUCATION

§ M.S. Geology, California State University, Northridge, University, 1992
§ B.A. Earth Science, California State University, Northridge, University, 1974

TRAINING AND CERTIFICATIONS

§ 40-Hour OSHA HAZWOPPER Health and Safety Certification (29 CFR 1910.120)
§ EPA AHERA-Certified Asbestos Building Inspector
§ EPA AHERA-Certified Contractor Supervisor

Todd Stanford, REHS, CEM
Principal Scientist

PROFESSIONAL SUMMARY

Todd Stanford has more than 28 years of experience in site assessment, soil and groundwater remediation, pharmacology, risk assessment, occupational health and safety, and air toxics. His qualifications include extensive experience planning, directing, and completing environmental site assessments, designing remedial projects for soil and groundwater, performing human and ecological risk assessments, and evaluating the fate and transport of chemicals in soil, groundwater, and air. His experience also includes environmental, health, and safety management program development, multi-media environmental, health, and safety compliance auditing, risk management planning and solid waste management. Mr. Stanford has served on the Scientific Advisory Board for California AB 2588 and the Private Site Management Advisory Committee for AB 1876.

During Mr. Stanford's career, his project management experience has been applied to capital construction projects, underground storage tank facilities, chemical production and bulk storage facilities, manufactured gas plant sites, power generation and distribution facilities, and State and Federal Superfund sites.

PROJECT EXPERIENCE

Multi-media Compliance Auditing and EHS Compliance

- **Lead Auditor / Port of Long Beach, Maintenance Facility & Operations, Environmental Compliance Audit / Long Beach, CA.** Led an environmental compliance audit of multiple Port of Long Beach operations which focused on review and determination of compliance status of various operations relative to applicable Federal, State, and local air regulations. The audit focused on air quality, hazardous materials, hazardous waste, aboveground and underground storage tanks, stormwater, and wastewater. The audit also evaluated the status of existing formal environmental health programs, including written programs, policies, span of control, and definitions of personnel roles and responsibilities.

- **Project Director and Lead Auditor / California Institute of Technology/Jet Propulsion Laboratories, Multi-Media Compliance Auditing / Pasadena, CA.** Oversaw a series of multi-media assessments and audits of educational and research oriented facilities. Provided environmental compliance auditing services as related to hazardous waste management, above-ground and underground storage tank management, business emergency planning, air emissions and Title V permit compliance, asbestos, lead-based paint, and PCBs management, CalARP Risk Management Planning, Greenhouse Gas emissions reporting and verification, and related environmental compliance programs.

- **Lead Environmental Auditor / Confidential Water District, EH&S Program Compliance Assessment / California.** Managed a multi-disciplinary assessment of a public water utility's environmental, health, and safety programs. The environmental component of the assessment focused on CalARP, Clean Air Act/Air Quality Permit Compliance, Clean Water Act compliance, Hazard Communication, Hazardous Materials and Hazardous Waste Management, Spill Prevention Control and Countermeasure Planning, Stormwater Pollution Prevention and Monitoring Plans, and above-ground and underground storage tank programs. The assessment covered facilities constructed an operated by the utility including maintenance activities, two (2) water treatment plants, a desalination plant, two (2) active groundwater well fields and a water blending facility. Completed an organizational management assessment that considered several staffing and placement of EH&S functions within the organization as related to comparable utilities of similar size and operations. The organizational management assessment provided recommendations on EH&S staffing, suggested management and reporting structures, and management systems development.

- **Lead Auditor / DTE Energy, Biomass Power Plants, CalARP and Process Safety Management Audits / Multiple Locations, California.** Completed focused environmental and safety compliance audits relative to California Accidental Release Program (CalARP)/Federal Risk Management Program and CalOSHA Process Safety Management (PSM) audits of several biomass power plants in California. The focus of the audits related to processes involving the storage and use of anhydrous ammonia and facilities compliance with the CalARP/PSM requirements. Audit activities included a detailed review of covered processes, accident history, prevention program, process safety information, update of Process Hazard Analyses, offsite consequence analysis, operating and training procedures, mechanical integrity program, management of chance, and employee participation and incident investigation programs.

- **Lead Auditor / CalPeak Power, Risk Management Plan and Process Safety Management Auditing / Multiple Locations.** Supported five (5) electrical power generating facilities that utilize aqueous ammonia to control emissions of nitrogen oxides. The audit program elements included detailed reviews of covered processes, accident history, prevention programs, process safety information, update of Process Hazard Analyses, offsite consequence analysis, operating and training procedures, mechanical integrity programs, management of chance, and employee participation and incident investigation programs. (2015-2016)

- **Environmental Compliance Manager / Precision Specialty Metals, Environmental Compliance Support / Los Angeles, CA.** Developed a comprehensive, multi-media environmental compliance program involving hazardous waste profiling, manifesting, and tracking; industrial wastewater treatment system monitoring and reporting; air permitting and related compliance activities (including Title V and RECLAIM programs); EPCRA reporting; RMPP compliance; and Stormwater Pollution Prevention Planning, implementation, and reporting. Interfaced with various regulatory agencies including the State Board of Equalization, Air Pollution Control Districts, Sanitation and Industrial Wastewater Discharge agencies, US Environmental Protection Agency, and Regional Water Quality Control Boards. Provided ongoing technical support including identification of hazardous waste source reduction alternatives and general facility compliance with community right-to-know regulations.

- **Lead Auditor / Danaher Corporation / Multiple Locations / California and Arizona.** Performed multi-media environmental health and safety compliance audits of four (4) aerospace and manufacturing facilities in support of corporate auditing practices for two different operating divisions within Danaher. Auditing services included focus on hazardous and solid waste management, water and wastewater discharges, chemical management, air emissions and permitting, underground storage tanks, spill prevention and control, Permit by Rule/Tiered Permitting, SARA Title III and EPCRA, OSHA, DOT, and TSCA. Provided supplemental consulting services and assisted in the development of inventory management and reporting tools and in the preparation of electronic report filings under EPCRA.

- **Lead Auditor / Project Cardinal, EH&S Compliance Auditing / Western and Central US.** Managed multi-media environmental health and safety compliance audits of aerospace and industrial manufacturing facilities located in California, Arizona, Nevada, and Florida. The compliance evaluations were performed subsequent to various acquisitions by a confidential parent company. Provided environmental compliance auditing services as related to hazardous and solid waste management, water and wastewater discharges, chemical management, air emissions and permitting, underground storage tanks, spill prevention and control, SARA Title III and EPCRA, OSHA, DOT, and TSCA. Observed deficiencies were recorded and reported to USEPA under provisions of the EPA's Incentives for Self-Policing: Discovery, Disclosure, Correction and Prevention of Violations Policy, 65 Fed. Reg 19618.

- **Lead Auditor / Confidential Client / Los Angeles, CA.** Managed several comprehensive multi-media compliance audit of a company that is engaged in maintenance and leasing of corporate aircraft, as a component of pre-merger due diligence. Provided environmental compliance auditing services as related to hazardous and solid waste management, water and wastewater discharges, chemical management, air emissions and permitting, underground storage tanks, spill prevention and control, SARA Title III and EPCRA, OSHA, DOT, and TSCA.

- **Project Manager / Kirkland & Ellis, M&A Environmental Auditing / Various Locations / Western and Central US.** Performed limited environmental compliance audits of several food production and distribution facilities located in California and Texas. The environmental compliance evaluations were performed as a component of pre-acquisition due diligence. Provided environmental compliance auditing services as related to air emissions and permitting, underground storage tanks, spill prevention and control, ozone depleting substances, Risk Management Planning, SARA Title III and EPCRA, and Process Safety Management.

- **Project Manager / Nixon Peabody, M&A Environmental Auditing / Various Locations / Western US.** Managed several comprehensive multi-media compliance audits of industrial manufacturing facilities located in the Western US. Compliance evaluations were performed subsequent to various acquisitions by a confidential parent company. Provided environmental compliance auditing services as related to hazardous and solid waste management, water and wastewater discharges, chemical management, air emissions and permitting, underground storage tanks, spill prevention and control, SARA Title III and EPCRA, OSHA, DOT, and TSCA.

- **Project Manager / Metal Finishing Companies, Environmental Health and Safety Consulting / Various Locations, CA.** Managed environmental and health & safety compliance issues for a number of metal finishing companies operating in Southern California. Typical consulting services included evaluating exposures to personnel working near open process tanks containing phosphoric, nitric, and sulfuric acids, nickel, tin, copper, and hexavalent chromium; general and specific requirements for air emissions from degreasing solvents and air emissions from anodizing and etching, and electro and electro-less plating of nickel, chromium, copper, tin, silver, and gold. Reviewed source testing results, established emissions estimates based on normalized facility-specific indices, conducted screening level risk evaluations, assisted in optimizing wastewater treatment system efficiency, identified source reduction alternatives, and provided training to facility personnel in the areas of environmental compliance and worker and community right to know regulations. Also, developed occupational safety and training programs for eye and face protection, hearing conservation, confined space identification and permitting, lockout/tagout, foot protection, respiratory protection, and operation of industrial trucks.

Human and Ecological Risk Assessment

- **Project Manager / Confidential Clients, Proposition 65 Exposure Assessment / Various Locations, California.** Evaluated 100 consumer products and over 20 chemicals listed by the State of California as carcinogens, developmental or reproductive toxicants. Listed chemicals evaluated included acrylamide, volatile organic compounds, dioxins/furans, polynuclear aromatic hydrocarbons, metals, and phthalates. The evaluations were performed for a wide range of consumer products including paper products, toiletries, and durable goods. The evaluations ranged from quantitative exposure assessments utilizing default exposure parameters for typical use scenarios to detailed exposure assessment sampling and analysis to establishing exposure point concentration estimates based on gravimetric, bulk, and wipe sampling protocols. The evaluations included a three phase review process which included identification of listed chemicals in the supply or manufacturing chain, a qualitative evaluation of exposure potential based on the finished product composition, and a final quantitative assessment of exposure under typical product use conditions. The results of the analysis were utilized to inform the manufacturer or supplier on potential Proposition 65 notification requirements, to assist in the identification or alternative product formulations that would not result in Proposition 65 notifications, and to establish protocols for further refinement of exposure parameters that contribute most-significantly to potential consumer exposures and risks.

- **Technical Lead/ Various Industrial Companies, Vapor Intrusion and Health Risk Assessment Services / Western United States.** Completed human health risk assessments for a variety of petroleum, chlorinated solvent, heavy metal, dioxin/furan, and radionuclide impacted sites and facilities throughout the continental United States. Risk assessment clients include, among others, ConocoPhillips, ExxonMobil, Farmer Brothers, Chevron, Unocal, Simpson Paper Company, Lockheed Martin Corporation, Coastal Corporation, Rohr Industries, Signet Armorlite, BP/Arco, Gatron Industries, Home Depot, BNSF Railroad, Kinder-Morgan Energy Partners, State of Hawaii Department of Transportation, Montrose Chemical Company, Weyerhauser, Kimberly Clark, Chromalloy, and Jorgensen Steel. The health risk assessments have ranged in complexity from single exposure pathway analyses to complex multi-media exposure pathways involving multiple chemicals. The risk assessment results have been used in internal risk-management decision making and prioritization, litigation support, and as regulatory compliance tools. Assessed and refined several vapor intrusion evaluation methodologies and the integration of risk management measures for more than 28 years. Assessments have been approved by agencies including the California Department of Toxic Substances Control, California Air Resources Board, Hawaii Department of Health, Nevada Department of Environmental Protection, Arizona Department of Environmental Quality, the United States Environmental Protection Agency, Lahontan, Central Coast, Los Angeles, Santa Ana, San Diego, Central Valley, and San Francisco RWQCBs. Also, participated in the public communication of health risk in support of many projects. *(1991-2016)*

- **Risk Assessment Manager / Confidential School Districts, School Site Risk Assessment and Remedial Action Planning / Southern California:** Supervised the Human Health Risk Assessment (HHRA) component of the Preliminary Endangerment Assessment process for multiple proposed and existing school sites for several school districts in Southern California. Chemicals of potential concern evaluated included volatile organic compounds, heavy metals, PCBs, chlorinated herbicides and pesticides, petroleum hydrocarbons, and semi-volatile organic compounds in soil, groundwater, and soil vapor. The results of the HHRA were used to support the future site development activities and to identify specific risk management measures that would be used to reduce potential exposures and risks to future students and staff at the school sites.

- **Risk Assessment Manager / Molycorp Minerals, Mountain Pass Mine / Human Health Risk Assessment (HHRA) / Mountain Pass, CA:** Supervised the Human Health Risk Assessment (HHRA) component of the Corrective Action and Closure Plan for the Mountain Pass Mine and Mill Site located in San Bernardino County, California. The HHRA included quantitative evaluation of potential human health risks and qualitative evaluation of potential ecological risks associated with current site conditions for lanthanides, actinides, and radionuclides (e.g., radium, thorium, and uranium decay series). Health-based cleanup goals for soil were also derived for lanthanides and actinides. For radionuclides, cleanup goals were developed based on surface radiation exposure rates for specific areas. The HHRA and cleanup goals were used to identify additional geographic areas that warrant additional investigation and/or mitigation and established the basis for determining that post-remediation concentrations met the site risk management objectives.

- **Risk Assessment Manager / Riverside Agricultural Park, HHRA / Riverside, CA:** Managed the post-remediation Human Health Risk Assessment (HHRA) pursuant to the California Land Reuse and Revitalization Act Agreement. The Site encompasses approximately 62 acres of undeveloped land that was first developed as a sewage treatment plan in 1942. The sewage treatment plant was decommissioned in 1965. However, environmental assessment activities identified the presence of polychlorinated biphenyls (PCBs), semi-volatile organic compounds, volatile organic compounds, pesticides, herbicides, dioxins/furans, and metals in soil. Implemented a remedial action plan which included the excavation and off-site disposal of approximately 174,000 tons of impacted soil. The HHRA was conducted in order to assess the potential human health risks associated with the future residential development and use of the property and to confirm the adequacy of the remedial actions. DTSC subsequently approved the remedial action completion report and HHRA and issued a certificate of completion in 2014.

- **Risk Assessment Manager / Carroll Hall Shelby Trust, HHRA / Gardena, CA**. Managed the Human Health Risk Assessment (HHRA) in order to further refine the chemicals of potential concern, establish health-based soil and groundwater remediation objectives, and to evaluate vapor intrusion conditions resulting from remedial activities implemented during pilot testing. Potential exposures considered in the HHRA included direct contact with soil and vapor intrusion to existing or future site structures. Supplemental monitoring of soil gas and indoor air was performed during the pilot remediation testing period to confirm that mitigation measures were adequate to protect current building occupants from exposures to chlorinated VOCs emanating from the subsurface.

- **Risk Assessment Manager / Los Angeles County Department of Public Works / Oxford Basin, HHRA / Marina Del Rey, CA:** Managed the Human Health Risk Assessment (HHRA) in support of proposed improvements to a storm retention basin. Previous environmental investigations identified the presence of heavy metals, PCBs, chlorinated herbicides and pesticides, petroleum hydrocarbons, and semi-volatile organic compounds in basin sediments and surrounding soil. Proposed site enhancement activities include construction of new features to increase its storage capacity and improve the general appearance and recreational use of this feature. The results of the HHRA were used to support the future site development activities and to identify specific risk management measures that would be used to reduce potential exposures and risks to future site workers and recreational users.

- **Risk Assessment Manager / Pacific Gas and Electric Company, Hunters Point Power Plant Dismantlement Contract, HHRA / San Francisco, CA.** Managed the Human Health Risk Assessment (HHRA) component of the Remedial Investigation/Feasibility Study (RI/FS) activities. Activities performed in support of the RI/FS activities involved development of general data quality objectives for soil, groundwater, sediment and soil vapor to facilitate the application of field data in human health and screening ecological risk assessments. Developed a Conceptual Site Risk model for the site based on the anticipated future unrestricted use of the property. Specific elements of the HHRA completed as a component of this project include statistical data evaluation for determining background concentrations of metals and asbestos in soil, identification of chemicals of potential concern for inclusion in the quantitative HHRA, quantification of plausible human exposure pathways involving soil, soil vapor (vapor intrusion), and groundwater, identification of Chemicals of Concern (COCs) that influence the site-wide risk estimates, and determination of health-based screening levels for COCs in soil, groundwater, and soil vapor. The health-based screening levels were used in conjunction with the statistically-derived background concentrations to establish the remediation goals that served as the basis for evaluation potential response, mitigation, and engineering control alternatives.

- **Principal Scientist / Chevron/Unocal and ExxonMobil Petroleum Tank Farms and Operating Fields, Site Assessment, Fate and Transport Modelling, Health Risk Evaluation, and Remedial Action Planning and Implementation / Various Locations.** Conducted environmental site assessment and establishment of remedial action goals for former bulk storage facilities, tank farms, production fields, and crude-oil gathering and distribution lines. Coordinated acquisition of sampling data regimen and laboratory analyses for soil, groundwater, and soil vapor; performed remedial feasibility testing; and prepared and implemented remedial action plans for active and idle properties. Assessment and remediation activities were performed to both support proposed divestment and redevelopment activities and in defense of third-party suits. The results of fate and transport modeling and human health risk assessments were used to establish land use-specific remedial goals for COPCs in soil, soil vapor, and groundwater. Assessment and remediation activities were performed under the jurisdiction of variety of regulatory agencies including the Lahontan, Central Coast, Los Angeles, Santa Ana, San Diego, Central Valley, and San Francisco RWQCBs, Department of Toxic Substances Control, and California Air Resources Board.

- **Project Manager / Honolulu Harbor Working Group, Iwilei District Participating Parties / Honolulu, HI.** Oversaw a multi-party PRP group for a 0.5 square mile area that is impacted by petroleum hydrocarbons in soil and groundwater and methane gas in the subsurface. Developed a conceptual site model of fate, transport, and human and ecological exposure pathways, calculated health-based screening levels for chemicals of potential concern, and developed a comprehensive database and GIS application that provided focus to ongoing assessment and interim remedial activities. Also, interfaced with State of Hawaii and USEPA regulators and developed vapor migration and vapor intrusion screening algorithms to evaluate potential impacts to indoor and outdoor air and prioritize parcels for active mitigation, institution of land use covenants, and application of administrative controls.

- **Risk Assessment Manager / Former Railroad Facility, Health Risk Evaluation and Remedial Action Planning / San Jose, CA.** Managed all aspects of a human health risk assessment for an approximately 13 acre former rail facility impacted by surficial and subsurface metals, polynuclear aromatic hydrocarbons (PAHs), pesticides/herbicides, and volatile organic compounds. The health risk assessment considered the redevelopment of the property for residential use. Consequently, performed an evaluation of potential risks under a proposed future residential land-use scenario under baseline (i.e., pre-remediation) conditions for direct exposure and vapor diffusion exposure pathways. The health risk assessment also included an evaluation of the potential migration of methane gas and volatile organic compounds in soil vapor from two adjacent landfills. Developed health-based remediation goals for metals, PAHs, and pesticides/herbicides in soil to protect future site residents from direct contact with these constituents. The results of the vapor diffusion analysis were used to establish engineering controls to prevent the migration of methane gas and VOCs from the adjacent landfills to the subject property and from the subsurface to indoor air within the residences. Following approval of the health-risk assessment and regulatory concurrence with the remediation goals, the remedy was implemented and a no further action determination was obtained.

- **Principal Scientist / Pacific Gas and Electric Company, Humboldt Bay Generating Station (HBGS) Demolition and Abatement Project / California.** Completed a screening level risk assessment for potential construction-related exposures associated with the fast-track demolition and abatement project. The results of the human health risk assessment demonstrated that residual chemicals in soil do not pose a significant threat to construction workers or future site workers and that no additional risk management measures or remediation is warranted.

- **Principal Scientist / Lockheed Martin Corporation, Former Industrial Light Metals Facility / Torrance, CA.** Provided risk assessment services for chlorinated and aromatic hydrocarbons in soil and groundwater at a former aerospace facility. Risk assessment services included evaluation of vapor intrusion into indoor air under current and anticipated future site conditions and hypothetical future groundwater use scenarios. Analysed the fate and transport of chlorinated solvents in soil to determine whether residual soil impacts represent a potential source of impact to groundwater. The results of the risk assessment have been used to support site development and use during remedial testing and remedy implementation. The results of the fate and transport analyses were used to justify closure of several solid waste management units associated with the facility.

- **Principal Scientist / Confidential Clients, Risk Assessment and Risk Management Planning / Multiple Locations, California and Nevada.** Prepared documentation related to potential releases of anhydrous and aqueous ammonia and hydrofluoric acid from onsite storage and NO_x control (Selective Catalytic Reduction) systems for several proposed and existing power generation facilities and manufacturing facilities. Lead process hazard reviews and identified potential mitigation measures for deployment at facilities in conjunction with site selection and preliminary engineering design of facilities. Performed offsite consequence analyses for facilities based on mitigated and unmitigated alternatives in accordance with Federal RMP and CalARP requirements.

- **Project Manager / City of Monterey, Monterey Swim Gym Facility / Monterey, CA.** Oversaw the human health risk assessment portion of the Monterey Swim Gym Facility and assisted in comprehensive site assessment and remedial design for a former manufactured gas plant site. Specific project responsibilities included identifying potential constituents of concern related to former facility operations, designing a statistical sampling plan, completing a human health risks assessment involving current and potential future exposures related to property development, and establishing remedial design objectives. The remedial design objectives were used to establish the geographic limits of the remedial response in consideration of the intended site development and to support the beneficial reuse of impacted soil.

- **Project Manager / Ramco, Mace Ranch Development – Davis, CA.** Supervised tasks for a former pesticide and fertilizer bulk facility located in an agricultural area of Central California. Historical dumping of bulk pesticides including ethylene dibromide (EDB), dichloropropane (DCP), and dibromochloropropane (DBCP) into an unlined wash basin created a plume of pesticides in soil and perched groundwater that threatened a nearby municipal water well. Remedial investigations focused on establishing health based remedial goals for soil and groundwater that are protective of the underlying utilized aquifer and allow for residential development of the adjacent property. The selected remedial alternative included both limited remedial excavation of impacted soil and groundwater plume control.

- **Risk Assessment Manager / Confidential Client, Risk Characterization and Management / Chubut Province, Argentina.** Evaluated potential risks to human health of mine site workers and nearby residents resulting from mine site operation and potential catastrophic event scenarios. Activities evaluated as a component of this project included transport of hazardous substances during mine operation, plant operations and process-related activities, impoundment and sterile rock pile facilities, and onsite use of hazardous substances. Also, identified risk management measures for the activities associated with the greatest risk probability and consequence.

- **Risk Assessment Manager / Former Cannery, Remedial Investigation and Mitigation / Honolulu, HI.** Performed a comprehensive evaluation of the presence and distribution of multiple chemicals in soil and groundwater beneath a former cannery. Chemicals evaluated include substituted benzene compounds and polynuclear aromatic hydrocarbons. Conducted an analysis of the potential fate and transport potential of chemicals in groundwater and evaluated potential onsite and offsite health risks associated with direct contact and inhalation of chemicals during and after site development. The results of the health-risk assessment were used to establish vapor control criteria for volatile compounds and methane gas and to secure approval for site redevelopment for commercial use.

- **Risk Assessment Manager** / Unocal Corporation, Emissions Inventory Planning, Reporting, Fugitive Emissions Monitoring, and Health Risk Assessments / Santa Maria, CA. Conducted emissions quantifications for pressure distillates, crude towers, coker wet gas, overhead gas, tail gas treatment, straight run naphtha, crude heaters, crude and recovered oil storage tanks, and coker naphtha for emissions of benzene, ammonia, toluene, hydrogen sulfide, chlorine, zinc, xylenes, and C8 aromatics. Conducted source testing of sump vapor recovery units and obtained permits to operate facility equipment at various pump stations. Developed source testing and emissions quantifications methodologies and completed AB2588 health risk assessments for facility emissions.

- **Project Director / City of Burbank Redevelopment Agency, B-1 Remediation Oversight / Burbank, CA.** Assisted the City of Burbank in determining whether the Vapor Extraction System was operating in compliance with the Conditional Use Permit issued by the City. Activities performed include collection and analysis of verification samples of system air emissions, evaluate calibration of in-line VOC detectors and programmable logic controllers, and completion of weekly and quarterly health risk assessments based on facility emissions. Developed and maintained a webpage for the City of Burbank containing the results of verification samples, health risk evaluations, and vapor extraction system operational data.

Environmental Due Diligence

- **Project Director / Union Bank / Environmental Due Diligence / Multiple Locations:** Managed Union Bank's environmental risk management and environmental due diligence activities related to secured loans and real estate used as collateral for loan securitization. Completed more than 200, Phase 1 Environmental Site Assessments and Transaction Screen Reports for Union Bank of California for locations throughout the continental United States. Also, completed environmental site assessments, removed underground storage tanks, developed remedial action plans, and installed and operated soil and groundwater remediation systems at a variety of industrial, commercial, and retail properties.

- **Project Director / Combined Properties, Incorporated / Environmental Due Diligence, Assessment and Remediation / Multiple Locations, Southern California:** Directed environmental due diligence activities for acquisition and divestment of commercial properties. Managed all aspects of pre-acquisition environmental due diligence activities including preparing Phase I Environmental Site Assessment (ESA) documents, characterizing subsurface soil and groundwater conditions for petroleum hydrocarbons and hazardous substances, conducting geotechnical evaluations, completing asbestos and lead-based paint evaluations, designing, installing and operating remedial systems, and providing assistance on mitigation of subsurface and building hazards.

- **Project Director / Related Companies of California / Environmental Due Diligence, Assessment and Remediation / Multiple Locations, Southern California:** Oversaw environmental due diligence activities for acquisition and divestment of residential and mixed-use properties. Responsible for all aspects of pre-acquisition environmental due diligence activities including preparing Phase I ESA documents, characterizing subsurface soil and groundwater conditions for petroleum hydrocarbons and hazardous substances, conducting geotechnical evaluations, completing asbestos and lead-based paint evaluations, designing, and providing assistance on mitigation of subsurface and building hazards.

- **Project Director / First Republic Bank, Environmental Due Diligence / Multiple Locations, Southern California:** Managed First Republic Bank's environmental risk management and environmental due diligence activities related to secured loans and real estate used as collateral for loan securitization. Completed more a dozen Phase I ESAs and Transaction Screen Reports at various locations throughout Southern California.

PROFESSIONAL REGISTRATIONS

- Registered Environmental Health Specialist (REHS), California - #6183, 1991
- Certified Environmental Manager, Nevada - #1814, 2002

EDUCATION

- M.S., Environmental Health, California State University, Northridge
- B.S., Environmental & Occupational Health, California State University, Northridge

TRAINING AND CERTIFICATIONS

- Project Manager Training
- Total Quality Management Training
- 40-Hour HAZWOPER Training and Annual 8-Hour Refresher Training
- Supervisory OSHA Health and Safety Training
- CPR and First Aid Training

PROFESSIONAL AFFILIATIONS

- Society for Risk Analysis
- National Environmental Health Association
- Sustainable Remediation Forum

APPENDIX J

RECORDS OF COMMUNICATION

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Search Again | Search Results | **Facility Details** | Equipment List | Compliance | Emissions | Hearing Board | Transportation

Facility Details

Facility ID	182472
Company Name	FRONTIER CALIFORNIA INC
Address	5010 AZUSA CANYON RD
	IRWINDALE, CA 91706

Status ACTIVE

Are there any back fees due?

No.

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Search Again | Search Results | Facility Details | Equipment List | Compliance | Emissions | Hearing Board | Transportation

Equipment List

Facility ID 182472

Company Name FRONTIER CALIFORNIA INC

Address 5010 AZUSA CANYON RD

IRWINDALE, CA 91706

Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
585703				Basic	RULE 1415 PLAN NOTIFICATIONS	4/29/2016	APPLICATION READY FOR PRESCREENING

First | Prev | Page 1 of 1 (1 records) | Next | Last | Page 1 | Export To Excel

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Search Again | Search Results | Facility Details | Equipment List | Compliance | Emissions | Hearing Board | Transportation

Compliance

Facility ID	182472
Company Name	FRONTIER CALIFORNIA INC
Address	5010 AZUSA CANYON RD
	IRWINDALE, CA 91706

Notices Of Violaton: NONE

Notices To Comply: NONE

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Search Again | Search Results | Facility Details | Equipment List | Compliance | Emissions | Hearing Board | Transportation

Facility Details

Facility ID	22227
Company Name	VERIZON CALIFORNIA
Address	5010 N AZUSA CANYON RD
	IRWINDALE, CA 91706

Status ACTIVE

Are there any back fees due?

No.

SIC Code	Description
4813	TELEPHONE COMMS, EXC RADIO

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Search Again | Search Results | Facility Details | Equipment List | Compliance | Emissions | Hearing Board | Transportation

Equipment List

Facility ID 22227

Company Name VERIZON CALIFORNIA

Address 5010 N AZUSA CANYON RD

IRWINDALE, CA 91706

Appl_Nbr	Permit_Nbr	Issued_Date	Permit_Status	Eq_Type	Equip_Description	Appl_Date	Appl_Status
562882				Basic	RULE 1415 PLAN NOTIFICATIONS	3/25/2014	BANKING/ PLAN GRANTED, NON BILLABLE
532273				Basic	RULE 1415 PLAN NOTIFICATIONS	2/1/2012	BANKING/ PLAN GRANTED, NON BILLABLE
506681				Basic	RULE 1415 PLAN NOTIFICATIONS	2/3/2010	BANKING/ PLAN GRANTED, NON BILLABLE
478707				Basic	RULE 1415 PLAN NOTIFICATIONS	2/27/2008	BANKING/ PLAN GRANTED, NON BILLABLE
455893				Basic	RULE 1415 PLAN NOTIFICATIONS	4/4/2006	BANKING/ PLAN GRANTED, NON BILLABLE
440067	N16432	3/15/2005	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	2/4/2005	PERMIT TO OPERATE GRANTED
426884				Basic	RULE 1415 PLAN NOTIFICATIONS	3/16/2004	BANKING/ PLAN GRANTED, NON BILLABLE
398002				Basic	RULE 1415 PLAN NOTIFICATIONS	2/26/2002	BANKING/ PLAN GRANTED, NON BILLABLE
368136				Basic	RULE 1415 PLAN NOTIFICATIONS	4/18/2000	BANKING/ PLAN GRANTED, NON BILLABLE
300610	N02194	2/27/1995	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	2/3/1995	PERMIT TO OPERATE GRANTED
300610	N02194	2/27/1995	INACTIVE	Control	AMINE TREATING	2/3/1995	PERMIT TO OPERATE GRANTED
179422	M91079	1/18/1989	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	11/22/1988	PERMIT TO OPERATE GRANTED
179422	M91079	1/18/1989	INACTIVE	Control	NH3 INJECTION (NOX)	11/22/1988	PERMIT TO OPERATE GRANTED
113381	M80670	2/24/1984	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	12/1/1975	PERMIT TO OPERATE GRANTED
113381	M80670	2/24/1984	INACTIVE	Control	AMINE (OR DEA) REGENERATION	12/1/1975	PERMIT TO OPERATE GRANTED
A80392	P61411	4/24/1975	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT		PERMIT TO OPERATE GRANTED

First | Prev | Page 1 of 1 (16 records) | Next | Last | Page 1 | Export To Excel

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Search Again | Search Results | Facility Details | Equipment List | Compliance | Emissions | Hearing Board | Transportation

NOV/NC Details

Notice Number	D14442	Violation Date	7/1/2010	Issue Date	1/14/2011	Notice Type	NC

Facility ID	22227
Company Name	VERIZON CALIFORNIA
Address	467 ROSEMEAD IRWINDALE, CA 91766
Violation Description	Do not operate any portable engine rated greater than 50 HP without an AQMD permit or CARB registration.
Equipment Description	Portable ICE
Status	Notice issued as a warning
Re-inspection Date	7/28/2010

Rule No.	Rule Description

76P235M-12/71

634 South San Pedro Street AIR POLLUTION CONTROL DISTRICT Los Angeles, Calif. 90013

PERMIT to OPERATE

P 61411
SECTOR BF

Operation under this permit must be conducted in compliance with all data and specifications included with the application under which this permit is issued. The equipment must be properly maintained and kept in good operating condition at all times. In accordance with Rule 10(c), this Permit to Operate must be posted or accessible.

LEGAL OWNER OR OPERATOR: GENERAL TELEPHONE COMPANY OF CALIFORNIA

Appl. No. A-80392

EQUIPMENT LOCATED AT: 5010 NORTH AZUSA CANYON ROAD
IRWINDALE, CALIFORNIA

EQUIPMENT DESCRIPTION AND CONDITIONS: SPRAY BOOTH, BINKS, FLOOR TYPE, MODEL FB-8-7, 7'-8" W. x 7'-0" H. x 8'-8" D., WITH ONE 1 H.P. EXHAUST FAN.

FILE COPY

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR ADDRESS, OR ANY ALTERATION

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 20, Chapter 2, Article 3, of the Health and Safety Code of the State of California or the Rules and Regulations of the Air Pollution Control District. This permit cannot be considered as permission to violate existing laws, ordinances, regulation or statutes of other governmental agencies

"Filing fee only - total cost of permit - filing fee paid on validation number 18535, dated May 2, 1974."

VOID UNLESS VALIDATED

AIR POLLUTION CONTROL OFFICER

BY Helen Thompson, Permit Section

DATE April 24, 1975

ATC Group Services LLC
25 Cupania Circle, Monterey Park, California 91755 • (323) 517-9780 • (323) 517-9781 facsimile

November 1, 2015, 2016

File Reviewed

Public Health Investigation
5555 Ferguson Drive Ste 120-04
Commerce, CA 90010

Via Facsimile (323) 728-0217

Attn: Haz-Mat Liason

Dear Sirs:

Please determine if files exist for the following address:

5010 Azusa Canyon Road
Irwindale, CA 91706

If available, I would like to make an appointment to review any files ASAP.

Thank You,

Steve W. Anderson

Mr. Steve W. Anderson
Environmental Geologist
steve.anderson@atcassociates.com
25 Cupania Circle
Monterey Park, CA 91755
(323) 517-9780 (Phone)
(323) 517-9781 (Fax)

Steve Anderson

From: Steve Anderson
Sent: Wednesday, November 09, 2016 11:13 AM
To: RB4-publicrecords@waterboards.ca.gov
Subject: File review request

I would like to review the case-closed LUST and WIP files for the General Telephone Co. (GTE) facility at 5010 Azusa Canyon Road, Irwindale, CA

The LUST file # is R-03882

The WIP file # is 108.0212

File Reviewed 11-29-16

Steve Anderson | STAFF SCIENTIST | **ATC Group Services LLC**
+1 323 517 9780 | +1 323 916 3421 mobile

25 Cupania Circle | Monterey Park, CA 91755
+1 323 517 9781 fax | steve.anderson@atcassociates.com | www.atcgroupservices.com

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Steve Anderson

From: Choudhury, Masood <masood.choudhury@ftr.com>
Sent: Thursday, November 10, 2016 8:47 AM
To: Steve Anderson; Cormier, Duval
Subject: RE:

Steve,

Please see below in Red.

Duval,
Can you please answer this question?....I assume old batteries and tires are returned to the suppliers and if you know those as well, so much the better - ????

Thanks, Masood

From:
Sent: Wednesday, November 09, 2016 2:09 PM
To: Choudhury, Masood <masood.choudhury@ftr.com>
Subject:

Hello Mr. Choudhury:

I am with ATC doing Phase I ESAs for the Frontier facilities at Irwindale and Santa Fe Springs.

Do you know which firm or firms remove hazardous waste from these sites and on what schedule? – Ecology Control Industries, located in Torrance, CA / on a monthly basis.
My on-site contacts did not know.

The wastes would typically consist of used oil, oil filters, and other used automotive fluids, clarifier sludge, telephone poles, and universal wastes. – Yes

I assume old batteries and tires are returned to the suppliers and if you know those as well, so much the better.

Thank you for your time

Steve Anderson | STAFF SCIENTIST | **ATC Group Services LLC**
+1 323 517 9780 | +1 323 916 3421 mobile

25 Cupania Circle | Monterey Park, CA 91755
+1 323 517 9781 fax | steve.anderson@atcassociates.com | www.atcgroupservices.com

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Steve Anderson

From: Cormier, Duval <duval.p.cormier@ftr.com>
Sent: Thursday, November 10, 2016 9:58 AM
To: Choudhury, Masood; Steve Anderson
Subject: RE:

I assume old batteries and tires are returned to the suppliers and if you know those as well, so much the better:

Tires are picked up by Parkhouse Tire
Batteries are picked up by Warren Distributing

Thank you,

Duval Cormier
Supervisor Fleet Operations
Voice: 909/622/0085
Fax: 909/622/4678
Cell: 562/756/9233

From: Choudhury, Masood
Sent: Thursday, November 10, 2016 8:47 AM
To: steve.anderson@atcassociates.com; Cormier, Duval <duval.p.cormier@ftr.com>
Subject: RE:

Steve,

Please see below in Red.

Duval,
Can you please answer this question?....I assume old batteries and tires are returned to the suppliers and if you know those as well, so much the better - ????

Thanks, Masood

From:
Sent: Wednesday, November 09, 2016 2:09 PM
To: Choudhury, Masood <masood.choudhury@ftr.com>
Subject:

Hello Mr. Choudhury:

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Do you know which firm or firms remove hazardous waste from these sites and on what schedule? – Ecology Control Industries, located in Torrance, CA / on a monthly basis.
My on-site contacts did not know.

APPENDIX K

LABORATORY REPORTS

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APPENDIX L

OTHER SUPPORTING DOCUMENTATION

STATE OF CALIFORNIA

PETE WILSON, *Governor*

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
LOS ANGELES REGION
101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500

RECEIVED

SEP 08 1992

ENVIRONMENTAL
COMPLIANCE
CA301HJ

September 3, 1992

Ms. Jackie D. McCormick
GTE California Inc.
P.O. Box 725
Chino, CA 91708

WELL INVESTIGATION PROGRAM - FORMER SEPTIC TANK AND CESSPOOL
GTE California Plant at 5010 North Azusa Canyon Rd., Irwindale, CA
(File No. AB108.0212)

We are in receipt of the August 31, 1992, fax transmittal from your consultant, Camp Dresser & McKee Inc. (CDM), regarding the analytical results of soil samples taken from the former septic tank located north of the truck wash.

The former septic tank and riser contained sand backfill with about an inch of sludgy material at the bottom. Analyses of the sludgy material detected 11 mg/kg of chloromethane and 24 mg/kg of 1,4 - dichlorobenzene. According to CDM staff, the former cesspool was not located, but trenching operation a few feet west of the former septic tank revealed sand backfill and pieces of brick.

Based on the field information and laboratory data, no further action on your part is required at this time with respect to the former septic tank and cesspool area. It should be noted that additional subsurface investigation may be required in the future based on surrounding facility investigations and review of any site specific information.

Three copies of the subsurface investigation report summarizing the results of the clarifier modification and soil sampling must be submitted to this Regional Board by **September 30, 1992.**

Please call Alex P. Carlos at (213) 266-7545 if you have any questions.

J. T. LIU
Senior Water Resource
Control Engineer

STATE OF CALIFORNIA—ENVIRONMENTAL PROTECTION AGENCY PETE WILSON, *Governor*

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION
101 CENTRE PLAZA DRIVE
MONTEREY PARK, CA 91754-2156
(213) 266-7500
FAX: (213) 266-7600

January 20, 1993

Ms. Jackie D. McCormick
GTE California Inc.
P.O. Box 725
Chino, CA 91708

SITE ASSESSMENT AND REMEDIATION - INDUSTRIAL WASTE CLARIFIER
GTE California Plant at 5010 North Azusa Canyon Rd., Irwindale, CA
(File No. AB108.0212)

We are in receipt of your December 1, 1992, letter transmitting the report, dated November 24, 1992, describing the site assessment and remediation of the industrial waste clarifier at the subject site.

As noted in the report, some soil samples were collected by using a hand trowel and transferred into a brass sleeve. Some confirmatory soil samples for volatile organic compound (VOC) analysis (e.g., GTEIR-11) were placed in glass jars and the quantitation limits (QL) of 1-2 mg/kg exceeded the required QL of 5-10 µg/kg for EPA Method 8010. No VOCs were detected in the samples. As a result, the analytical results are only a low estimate and not considered representative of site conditions.

We understand that an addendum to the subject report will be submitted to the Regional Board following the disposal of the sludge and piping material generated during the remediation of the sewer line associated with the clarifier.

On the basis of this investigation data, no further action on your part is required at this time with respect to the Well Investigation Program. However, it should be noted that additional subsurface investigation may be required in the future based on any site specific information and surrounding facility investigations.

If you have any questions, please call Alex P. Carlos at (213) 266-7545.

HANK H. YACOUB
Supervising Water Resource
Control Engineer

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (818) 458-5100

THOMAS A. TIDEMANSON, Director

ADDRESS ALL CORRESPONDENCE TO:
P.O.BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

RECEIVED
APR 07 1993
ENVIRONMENTAL COMPLIANCE

April 1, 1993

FILE COPY

IN REPLY PLEASE
REFER TO FILE:

I-3882

MS JACKIE D MCCORMICK
GTE CALIFORNIA INC
PO BOX 725
CHINO CA 91708

Dear Ms. McCormick:

UST LOCAL OVERSIGHT PROGRAM (LOP) REVIEW SHEET
RESPONSE TO THE LACDPW REVIEW LETTER DATED DECEMBER 28, 1992
SITE ASSESSMENT AND REMEDIATION CLOSURE REPORT FOR GASOLINE PUMP ISLAND
SITE ASSESSMENT AND REMEDIATION CLOSURE REPORT FOR SAND AND GREASE INTERCEPTOR
PREPARED BY: CAMP DRESSER AND MCKEE, INC.
REPORTS DATED: NOVEMBER 24, DECEMBER 2, 1992 AND FEBRUARY 9, 1993
CLOSURE PERMIT NO. 4994B
LOCATION: 5010 NORTH AZUSA CANYON ROAD, IRWINDALE

The Site Assessment Report and Remediation Closure Report for gasoline and pump island and response to the LACDPW December 28, 1992 letter have been reviewed and found adequate. However, the investigation and remediation in the area of sand and grease interceptor is under the jurisdiction of Industrial Waste Unit of LACDPW. Any related reports should be directed to this Unit. Please contact Mr. David Esfandi at (818) 458-3540 for any work conducted in this area.

Please note that as per our telephone conversation on February 10, 1993, a report for the investigation conducted on December 10, 1992 in the area of former diesel pump island will be submitted to this office. But, as of today, this office has not received the report. Be advised that in order for this office to consider issuing a closure on this site, this report must be submitted.

Submit the requested report to this office by May 13, 1993.

Failure to comply with the Los Angeles County Department of Public Works UST LOP directives may disallow you from participating in the UST Cleanup Fund.

Notify Dave Lobato at (818) 458-4374 a minimum of 72 hours prior to commencing any significant investigation, remediation, or assessment activities on site. The Los Angeles County Department of Public Works may disregard the work performed if the County was not properly notified.

Correspondence should be submitted in duplicate to the Los Angeles County Department of Public Works, UST Local Oversight Program, Annex Building, P. O. Box 1460, Alhambra, CA 91802-1460.

If you have any questions regarding this matter, please contact Matt Liao at (818) 458-3978.

Very truly yours,

T. A. TIDEMANSON
Director of Public Works

By Matt Liao
Matt Liao
UST Local Oversight Program
Waste Management Division

RD

Reviewed Nicole Long
for Pat Proano, P. E.
Supervising Civil Engineer II
Waste Management Division

ML:rm
WP/3882

cc: California Regional Water Quality Control Board
Camp Dresser and McKee, Inc.

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (818) 458-5100

THOMAS A. TIDEMANSON, Director

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

May 6, 1993

IN REPLY PLEASE REFER TO FILE: I-3882

MS JACKIE D MCCORMICK
GTE CALIFORNIA INC
PO BOX 725
CHINO CA 91708

FILE COPY

Dear Ms. McCormick:

HAZARDOUS MATERIALS UNDERGROUND STORAGE
CLOSURE CERTIFICATION
CLOSURE PERMIT NO. 4994B
LOCATION: 510 NORTH AZUSA CANYON ROAD, IRWINDALE

This office has reviewed the Final Closure Report submitted on March 24, 1993. Based on the information submitted, this letter confirms the completion of site investigation and remedial action at the above site. With the provision that the information provided to this agency was accurate and representative of existing conditions, it is our position that no further action is required at this time. The closure however, pertains to the underground tank area only. The assessment and remediation for the contamination in the area of the sand and grease interceptor should be directed to the LACDPW, Industrial Waste Unit.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present or future operations at this site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

Additionally, be advised that changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this agency of any changes in report content, future contamination findings or site usage.

If you have any questions regarding this matter, please contact Matt Liao at (818) 458-3978.

Very truly yours,

T. A. TIDEMANSON
Director of Public Works

Pat A. Proano
Supervising Civil Engineer II
Waste Management Division

ML:rm
WP/3882-1

cc: California Regional Water Quality Control Board
Ms. Jaqui Sikoryak, State Water Resources Control Board

DEPARTMENT OF PUBLIC WORKS
900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (818) 458-3100

HARRY W. STONE, Director

NOV 2 6 1996

ADDRESS ALL CORRESPONDENCE TO:
P.O.BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

Mr. Stan Brodecki
GTE California, INC.
P.O Box 725
Chino, CA 91708

IN REPLY PLEASE
REFER TO FILE: EP-1

003755 -003882

Dear Mr. Brodecki:

HAZARDOUS MATERIALS UNDERGROUND STORAGE
CLOSURE CERTIFICATION
FACILITY LOCATION: 5010 N. AZUSA CYN. RD., IRWINDALE (3S)
CLOSURE APPLICATION NUMBER 150480

This office has reviewed the final closure report dated August 7, 1996 required as a part of the subject closure permit. Based on the information submitted, we find that all closure requirements have been completed. With the provision that the information provided to this agency was accurate and representative of existing conditions, it is our position that no further action is required at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at this site. Nor does it relieve you of the responsibility to clean up existing, additional, or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

Additionally, be advised that changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this agency of any changes in report content, future contamination findings, or site usage.

If you have any questions regarding this matter, please contact Mr. Hamid Kabar of this office at (818) 458-3516, Monday through Thursday, 7:00 a.m. to 5:30 p.m.

Very truly yours,

HARRY W. STONE
Director of Public Works

M. D. Estberg

for CARL W. SJOBERG
Chief, Industrial Waste Planning & Control
Environmental Programs Division

UST1/CL205 REV. 10/95
CI70585

cc: California Regional Water Quality Control Board
Mr. Steve Zigan, Environmental Resolutions, Inc.

California Regional Water Quality Control Board

Los Angeles Region

Peter M. Rooney
Secretary for Environmental Protection

Internet Address: http://www.swrcb.ca.gov
101 Centre Plaza Drive, Monterey Park, California 91754-2156
Phone (213) 266-7500 • FAX (213) 266-7600

Pete Wilson
Governor

June 5, 1998

Ms. Kim D. Bray
GTE California Incorporated
Post Office Box 725
Chino, CA 91708

Dear Ms. Bray:

SAN GABRIEL VALLEY CLEANUP PROGRAM - NO FURTHER REQUIREMENTS - PROPERTY LOCATED AT 5010 NORTH AZUSA CANYON ROAD, IRWINDALE, CA - (FILE No. 108.0212)

We have reviewed the REPORT OF SOIL GAS INVESTIGATION dated November 9, 1995, submitted on your behalf by your consultant, Camp, Dresser & McKee. This report contains the analytical results for the seven soil vapor samples collected on October 18, 1995. These samples were collected for the assessment of potential volatile organic compound (VOC) contamination. The results of the chemical analysis did not detect VOC contamination in the soil vapor.

Based on these findings, Board staff concludes that the assessment work performed to date at your facility adequately evaluated the VOC contamination. As a result, no further requirements are required with respect to the San Gabriel Valley Cleanup Program.

Please notify this Regional Board of any change in your operations, regarding storage and handling of chemicals or disposal of wastes. It should be noted that this letter in no way releases you from any chemical and/or waste handling of this or any other agency. In addition, the jurisdictional requirements of other agencies such as the United States Environmental Protection Agency are not affected by this Regional Board's "no further requirement" determination. Such agencies may choose to make their own determination concerning the Site. If you have any questions regarding this matter, please contact Dave Rasmussen at (213) 266-7641.

Sincerely,

ARTHUR G. HEATH Ph.D.
Environmental Specialist IV

cc: Wayne Paskins, USEPA Region IX, San Francisco

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

GAIL FARBER, Director

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE
REFER TO FILE: EP-1
003755-003882

December 3, 2015

Verizon California Inc.
P.O. Box 725
Chino, CA 91708-0725

HAZARDOUS MATERIALS UNDERGROUND STORAGE
CLOSURE CERTIFICATION
CLOSURE APPLICATION NO. 591016
FACILITY LOCATED AT 5010 AZUSA CANYON ROAD, IRWINDALE (3S)

This office reviewed the final closure report dated June 19, 2009, required as a part of the subject closure permit. Based on the information submitted, we find that all closure requirements have been completed. With the provision that the information provided to this agency was accurate and representative of existing conditions, it is our position that no further action is required at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at this facility. Nor does it relieve you of the responsibility to cleanup existing, additional, or previously unidentified conditions at the facility, which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

Additionally, be advised that changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this agency of any changes in report content, future contamination findings, or site usage.

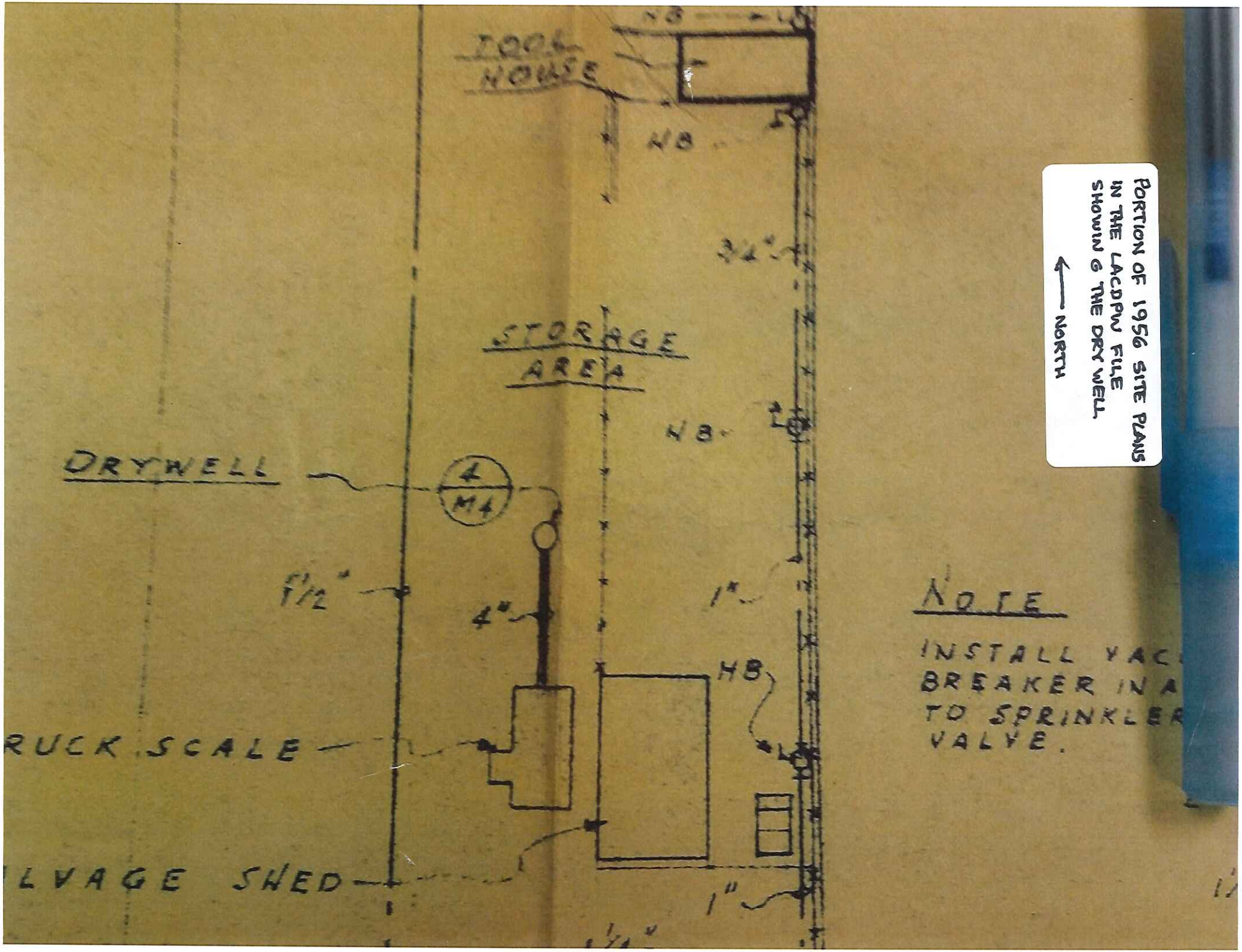
If you have any questions, please contact Mr. Phillip Gharibians at (626) 458-5976, Monday through Thursday, 7 a.m. to 5:30 p.m.

Very truly yours,

GAIL FARBER
Director of Public Works

For TIM SMITH
Senior Civil Engineer
Environmental Programs Division

PGT:ak
P:\Sec\Verizon California Inc. C819776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PORTION OF 1956 SITE PLANS IN THE LACDPW FILE SHOWING THE DRY WELL
NORTH
NOTE
INSTALL VAC
BREAKER IN A
TO SPRINKLER
VALVE.

CELEBRATING 90 YEARS

1926-2016

VALLEY COUNTY WATER DISTRICT

Past Present and Future

VALLEY COUNTY WATER DISTRICT

2016 EDITION

Consumer Confidence Report

2015 WATER QUALITY /

Regulating Drinking Water Quality

Water utilities in California have provided an annual report to their customers since 1991 which summarizes the prior year's water quality and explains important issues regarding their drinking water. In 1996, the United States Congress reauthorized the Safe Drinking Water Act (SDWA), which was originally passed in 1974 and later amended in 1986. The 1996 reauthorization called for the enhancement of nation-wide drinking water regulations to include important components such as source water protection and public information. This year's water quality report covers water quality testing from calendar year 2015 and has been prepared in compliance with the consumer right-to-know regulations required by the SDWA 1996 amendments.

The United States Environmental Protection Agency (USEPA) and the State Water Resources Control Board, Division of Drinking Water (DDW) are the public agencies responsible for drafting and implementing regulations that ensure your tap water is safe to drink. USEPA and DDW establish drinking water standards that limit the amount of contaminants in water provided to the public. DDW also establishes water quality standards for bottled water that provide for the same protection of public health.

Valley County Water District regularly tests your drinking water using DDW-approved methods to ensure its safety. Over 100 compounds have been monitored in Valley County Water District's water supply. Only the detected constituents are reported in the accompanying table. Detected unregulated contaminants of interest are also included. Again in 2015, the water delivered to you by Valley County Water District met or surpassed all the State and Federal drinking water standards.

In addition, the Main San Gabriel Basin Watermaster (Watermaster), who manages our groundwater basin, continuously and vigilantly reviews upcoming State and Federal drinking water regulations. Watermaster has been proactive when monitoring unregulated contaminants in the Main San Gabriel Basin to ensure the water supply meets water quality standards.

If you have questions about your water or the District, please contact us for answers...

For information about this report, or your water quality in general, please contact Mr. Tom Mortenson at (626) 338-7301. The Board of Directors meets on the second and fourth Mondays of each month at 5:30 PM at 14521 East Ramona Boulevard in the City of Baldwin Park. These meetings are open to the public.

Source of Water

Valley County Water District's water supply comes from groundwater wells located in the Main San Gabriel Groundwater Basin. However, as a result of historic industrial discharges, several of Valley County Water District's groundwater wells are contaminated and have been taken out of service. Water treatment facilities have been constructed at Valley County Water District to clean up groundwater contamination.

In addition, Valley County Water District purchased water from Covina Irrigating Company (CIC) in 2015. CIC pumps groundwater from the Main San Gabriel Groundwater Basin.

Protecting the Consumer

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

CONSUMER CONFIDENCE REPORT

Potential Contaminants in Drinking Water

Sources of drinking water generally include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- **Microbial contaminants**, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- **Inorganic contaminants**, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- **Pesticides and herbicides**, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- **Radioactive contaminants**, that can be naturally-occurring or can be the result of oil and gas production and mining activities.
- **Organic chemical contaminants**, including synthetic and volatile organic chemicals, that are byproducts of industrial processes and petroleum production, and can also come from gasoline stations, urban stormwater runoff, agricultural application and septic systems.

About Lead in Tap Water

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Valley County Water District is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at: **https://www.epa.gov/your-drinking-water/basic-information-about-lead-drinking-water.**

Nitrate

Nitrate in your tap water may have exceeded one-half the MCL in 2015, but it was never greater than the MCL. Nitrate in drinking water at levels above the MCL of 10 parts-per-million (ppm) is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 ppm may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

This book contains very important information about your drinking water. For more information or a translation, please contact the District office at (626) 338-7301.

Este informe contiene información muy importante sobre su agua potable. Para mas información ó traducción, favor de contactar a Mr. Tom Mortenson al (626) 338-7301.

如果您想對這些信息的翻譯版本，請致電（626)338-7301 的辦公區。

Kung gusto mo ng isang isinalin na bersyon ng impormasyong ito, mangyaring makipag-ugnayan sa opisina ng Distrito sa (626) 338-7301.

CONSUMER CONFIDENCE REPORT

Drinking Water Source Assessment

In accordance with the federal Safe Drinking Water Act, an assessment of the drinking water sources for Valley County Water District was completed in December 2002. The purpose of the drinking water source assessment is to promote source water protection by identifying types of activities in the proximity of the drinking water sources which could pose a threat to the water quality. The assessment concluded that Valley County Water District's sources are considered most vulnerable to the following activities or facilities associated with contaminants detected in the water supply: gasoline stations, chemical/petroleum processing and storage, automobile repair shops, fleet/truck/bus terminals, food processing, landfills/dumps, leaking underground storage tanks, dry cleaners and metal plating/finishing/fabricating. In addition, the sources are considered most vulnerable to the following activities or facilities not associated with contaminants detected in the water supply: pesticide/fertilizer/petroleum storage and transfer areas, railroad yards/maintenance/fueling area. A copy of the complete assessment is available at **Valley County Water District at 14521 Ramona Boulevard, Baldwin Park, California 91706.** You may request a summary of the assessment to be sent to you by contacting **Mr. Tom Mortensen at (626) 338-7301.**

In January 2002, Covina Irrigating Company completed its drinking source water assessment. The assessment showed that CIC's sources are considered most vulnerable to gasoline stations and underground tanks. A copy of the complete assessment can be requested by contacting **Valley County Water District at 14521 Ramona Boulevard, Baldwin Park, California 91706.** You may also request a summary of the assessment to be sent to you by contacting **Mr. Tom Mortensen at (626) 338-7301.**

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (**1-800-426-4791**), visit USEPA's Drinking Water website at **https://www.epa.gov/your-drinking-water** or visit DDW website at **http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/publicwatersystems.shtml.**

GLOSSARY

Maximum Contaminant Level (MCL) The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible.

Maximum Contaminant Level Goal (MCLG) The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by EPA.

Maximum Residual Disinfectant Level (MRDL) The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Primary Drinking Water Standard MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements and water treatment requirements.

Public Health Goal (PHG) The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Regulatory Action Level The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Secondary MCLs Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Measurements Water is sampled and tested throughout the year. Contaminants are measured in parts per million (ppm), parts per billion (ppb), and parts per trillion (ppt). If this is difficult to imagine, think about these comparisons:

Parts per million:
1 drop in 14 gallons; 1 second in 12 days; 1 penny in $10,000; 1 inch in 16 miles

Parts per billion:
1 drop in 14,000 gallons; 1 second in 32 years; 1 penny in $10 million; 1 inch in 16,000 miles

It is important to note, however, that even a small concentration of certain contaminants can adversely affect a water supply.

The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

2015 VALLEY COUNTY WATER DISTRICT DRINKING WATER QUALITY

Chemical	MCL	PHG (MCLG)	Average Amount	Range of Detections	MCL Violation?	Most Recent Test Year	Typical Source of Contaminant
PRIMARY DRINKING WATER STANDARDS--Health-Related Standards							
RADIOLOGICALS							
Gross Alpha (pCi/L)	15	(0)	<3	ND - 3.6	No	2015	Erosion of natural deposits
Uranium (pCi/L)	20	0.43	<1	ND - 1.8	No	2015	Erosion of natural deposits
INORGANIC CHEMICALS							
Arsenic (ppb)	10	0.004	2.2	ND - 4	No	2015	Erosion of natural deposits
Barium (ppm)	1	2	<0.1	ND - 0.14	No	2015	Erosion of natural deposits
Fluoride (ppm) - naturally occurring	2	1	0.28	0.24 - 0.33	No	2015	Erosion of natural deposits
Nitrate as N (ppm)	10	10	3.6	1.3 - 6.3	No	2015	Leaching from fertilizer use
SECONDARY DRINKING WATER STANDARDS--Aesthetic Standards, Not Health-Related							
Chloride (ppm)	500	NA	31	20 - 40	No	2015	Runoff/leaching from natural deposits
Odor (threshold odor number)	3	NA	1	1	No	2015	Naturally-occuring organic materials
Specific Conductance (umho/cm)	1,600	NA	490	410 - 540	No	2015	Substances that form ions in water
Sulfate (ppm)	500	NA	34	23 - 41	No	2015	Runoff/leaching from natural deposits
Total Dissolved Solids (ppm)	1,000	NA	290	220 - 320	No	2015	Runoff/leaching from natural deposits
UNREGULATED CHEMICALS OF INTEREST							
Alkalinity as CaCO3 (ppm)	Not Regulated	NA	170	140 - 180	N/A	2015	Runoff/leaching from natural deposits
Boron (ppm)	NL = 1	NA	<0.1	ND - 0.1	N/A	2015	Runoff/leaching from natural deposits; industrial wastes
Calcium (ppm)	Not Regulated	NA	57	49 - 63	N/A	2015	Runoff/leaching from natural deposits
Hardness as CaCO3 (ppm)	Not Regulated	NA	190	160 - 210	N/A	2015	Runoff/leaching from natural deposits
Grains of Hardness (gpg)	Not Regulated	NA	11	9.4 - 12	N/A	2015	Runoff/leaching from natural deposits
Magnesium (ppm)	Not Regulated	NA	11	9.7 - 12	N/A	2015	Runoff/leaching from natural deposits
pH (pH Units)	Not Regulated	NA	7.9	7.9 - 8	N/A	2015	Hydrogen ion concentration
Potassium (ppm)	Not Regulated	NA	3.5	3.4 - 3.8	N/A	2015	Runoff/leaching from natural deposits
Sodium (ppm)	Not Regulated	NA	25	14 - 36	N/A	2015	Runoff/leaching from natural deposits
UNREGULATED CHEMICALS REQUIRING MONITORING							
Chlorate (ppb)	NL = 800	NA	65	55 - 80	N/A	2015	Byproduct of drinking water chlorination; industrial processes
Chromium, Hexavalent (ppb)*	10	0.02	0.58	0.31 - 1.1	N/A	2015	Runoff/leaching from natural deposits; industrial discharge
Chromium, Total (ppb)**	50	(100)	0.53	0.31 - 0.97	N/A	2015	Discharge from steel and pulp mills; natural deposits erosion
Molybdenum, Total (ppb)	Not Regulated	NA	1.8	1.3 - 2.6	N/A	2015	Runoff/leaching from natural deposits
Strontium, Total (ppb)	Not Regulated	NA	470	440 - 510	N/A	2015	Runoff/leaching from natural deposits
Vanadium, Total (ppb)	NL = 50	NA	2.2	1.6 - 3.3	N/A	2015	Runoff/leaching from natural deposits

MCL = maximum contaminant level; MCLG = maximum contaminant level goal; NA = not applicable; ND = not detected; PHG = public health goal; NL = Notification Level; gpg = grains per gallon; ppb = parts per billion or micrograms per liter; ppm = parts per million or milligrams per liter; NTU = Nephelometric Turbidity Units; umho/cm = micromhos per centimeter; < = average is less than the reporting limit; pCi/l = picoCuries per liter;

LEAD AND COPPER CONCENTRATIONS AT RESIDENTIAL TAPS

Chemical	Action Level (AL)	PHG	90th Percentile Value	Site Exceeding AL/ Number of Sites	AL Violation?	Typical Source of Contaminant
Copper (ppm)	1.3	0.3	0.2	0/31	No	Corrosion of household plumbing
Lead (ppb)	15	0.2	ND	1/31	No	Corrosion of household plumbing

Thirty one residences are tested every three years for lead and copper at-the-tap. The most recent set of samples was collected in 2014. Copper was detected in 29 samples; none exceeded the regulatory action level (AL). Lead was detected in 1 sample; 1 sample exceeded the regulatory AL. The AL is the concentration of lead or copper which if exceeded in more than ten percent of the samples tested, triggers treatment or other requirements that a water system must follow.

DISTRIBUTION SYSTEM WATER QUALITY

Chemical	MCL (MRDL/MRDLG)	Results	Range of Detections	MCL Violation?	Typical Source of Contaminant
Total Trihalomethanes (ppb)***	80	4.9	ND - 6.1	No	Byproduct of chlorine disinfection
Haloacetic Acids (ppb)***	60	0.38	ND	No	Byproduct of chlorine disinfection
Chlorine Residual (ppm)***	(4 / 4)	0.6	0.27 - 0.93	No	Drinking water disinfectant

Bacteria	MCL	Result	MCL Violation?	Typical Source of Contaminant
Total Coliform Bacteria****	5.0%	1.7	No	Naturally present in the environment

UNREGULATED CHEMICALS REQUIRING MONITORING IN THE DISTRIBUTION SYSTEM

Chemical	NL	PHG (MCLG)	Results	Range of Detections	Most Recent Test Year	Typical Source of Contaminant
Chlorate (ppb)	800	NA	66	66	2015	Byproduct of drinking water chlorination; industrial processes
Chromium, Hexavalent (ppb)*	MCL = 10	0.02	0.31	0.31	2015	Runoff/leaching from natural deposits; industrial discharge
Chromium, Total (ppb)**	MCL = 50	(100)	0.3	0.3	2015	Discharge from steel and pulp mills; natural deposits erosion
Molybdenum, Total (ppb)	N/A	NA	1.6	1.6	2015	Runoff/leaching from natural deposits
Strontium, Total (ppb)	N/A	NA	510	510	2015	Runoff/leaching from natural deposits
Vanadium, Total (ppb)	50	NA	1.6	1.6	2015	Runoff/leaching from natural deposits

MRDL = Maximum Residual Disinfectant Level; MRDLG = Maximum Residual Disinfectant Level Goal; MCLG = maximum contaminant level goal

* Hexavalent chromium was included as part of the unregulated chemicals requiring monitoring.

** Total chromium is regulated with an MCL of 50 ppb but was not detected, based on the detection limit for purposes of reporting of 10 ppb. Total chromium was included as part of the unregulated chemicals requiring monitoring.

*** The table shows the highest running annual average for 2015, and the range of the individual results for samples collected in 2015.

**** The result is the higest percentage of positive samples collected in a month during 2015. Coliforms are bacteria used as an indicator that if present, indicates other potentially harmful microorganisms may be present. No more that 5.0% of the monthly samples may be Coliform - positive; therefore, the MCL was not violated in 2015.

U.S. Fish and Wildlife Service
National Wetlands Inventory

Frontier Irwindale

Nov 29, 2016

Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

e Flood Insurance Study report for this jurisdiction.

ce is available in this community, contact your insurance
d Insurance Program at 1-800-638-6620.

METERS
0 900 1800

PANEL 1700F

FIRM

FLOOD INSURANCE RATE MAP

LOS ANGELES COUNTY, CALIFORNIA

AND INCORPORATED AREAS

PANEL 1700 OF 2350

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
LOS ANGELES COUNTY	060043	1700	F
ARCADIA, CITY OF	060014	1700	F
AZUSA, CITY OF	060015	1700	F
BALDWIN PARK, CITY OF	060109	1700	F
COVINA, CITY OF	060024	1700	F
DUARTE, CITY OF	060028	1700	F
EL MONTE, CITY OF	060029	1700	F
GLENDORA, CITY OF	060031	1700	F
INDUSTRY, CITY OF	060035	1700	F
IRWINDALE, CITY OF	060139	1700	F
LA PUENTE, CITY OF	060038	1700	F
MONROVIA, CITY OF	060045	1700	F
WEST COVINA, CITY OF	060666	1700	F

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
06037C1700F

EFFECTIVE DATE
SEPTEMBER 26, 2008

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

5010 AZUSA CANYON RD
5010 AZUSA CANYON RD
BALDWIN PARK, CA 91706

Inquiry Number: 4765772.7
11/01/2016

EDR Environmental Lien and AUL Search

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environment Lien and AUL Search Report provides results from a search of available current land title records for environmental cleanup liens and activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- Search for parcel information and/or legal description;
- Search for ownership information;
- Research official land title documents recorded at jurisdiction agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- Access to copy of deed;
- Search for environmental encumbering instrument(s) associated with the deed;
- Provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- Provide a copy of the deed or cite documents reviewed.

Thank you for your business.
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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

5010 AZUSA CANYON RD
5010 AZUSA CANYON RD
BALDWIN PARK, CA 91706

RESEARCH SOURCE

Source 1: LOS ANGELES COUNTY RECORDER

Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	DEED
Title is vested in:	GTE CALIFORNIA INC
Title received from:	
Date Executed:	
Date Recorded:	1967
Book:	
Page:	
Volume:	
Instrument#:	
Docket:	
Land Record Comments:	DEED RECORDED PRIOR TO 1980

Legal Description: E 300 FT OF W 340 FT OF SW 1/4 OF NW 1/4 OF NW 1/4 OF LOT 9
Current Owner: GTE CALIFORNIA INC
Property Identifiers: 8417-025-800
Comments: DEED RECORDED PRIOR TO 1980

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found X

If Found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Docket: NA

Volume: NA

Instrument #:

Comments: NA

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AUL: Found Not Found X

If Found, Describe:

1st Party: NA

2nd Party: NA

Dated: NA

Recorded: NA

Book: NA

Page: NA

Docket: NA

Volume: NA

Instrument #:

Comments:

5010 AZUSA CANYON RD

BALDWIN PARK, CA 91706

Inquiry Number: 4765772.7
11/01/2016

EDR Environmental Lien and AUL Search

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- Search for ownership information;
- Research official land title documents recorded at jurisdiction agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- Access to copy of deed;
- Search for environmental encumbering instrument(s) associated with the deed;
- Provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- Provide a copy of the deed or cite documents reviewed.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

BALDWIN PARK, CA 91706

RESEARCH SOURCE

Source 1: LOS ANGELES COUNTY RECORDER

Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	DEED
Title is vested in:	GTE CALIFORNIA INC
Title received from:	
Date Executed:	
Date Recorded:	1967
Book:	
Page:	
Volume:	
Instrument#:	
Docket:	
Land Record Comments:	DEED RECORDED PRIOR TO 1980

Legal Description: LOT COM E ON N LINE OF SW 1/4 OF SW 1/4 OF NW 1/4 300 FT FROM INTERSECTION OF SD N LINE WITH E LINE OF AZUSA CANYON RD TH E ON SD N LINE TO W LINE OF E 100 FT OF W 1/2 OF NW 1/4 OF LOT 9

Current Owner: GTE CALIFORNIA INC

Property Identifiers: 8417-025-801

Comments: DEED RECORDED PRIOR TO 1980

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found X

If Found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Docket: NA

Volume: NA

Instrument #:

Comments: NA

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AUL: Found Not Found X

If Found, Describe:

1st Party: NA

2nd Party: NA

Dated: NA

Recorded: NA

Book: NA

Page: NA

Docket: NA

Volume: NA

Instrument #:

Comments:

5010 AZUSA CANYON RD

BALDWIN PARK, CA 91706

Inquiry Number: 4765772.7
11/01/2016

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- Access to copy of deed;
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- Provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

BALDWIN PARK, CA 91706

RESEARCH SOURCE

Source 1: LOS ANGELES COUNTY RECORDER

Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	DEED
Title is vested in:	GTE CALIFORNIA INC
Title received from:	
Date Executed:	
Date Recorded:	1966
Book:	
Page:	
Volume:	
Instrument#:	
Docket:	
Land Record Comments:	DEED RECORDED PRIOR TO 1980

Legal Description: 0.22 MORE OR LESS AC N 30 FT OF E 320 FT OF W 340 FT OF SW 1/4 OF NW 1/4 OF LOT 9
Current Owner: GTE CALIFORNIA INC
Property Identifiers: 8417-026-800
Comments: DEED RECORDED PRIOR TO 1980

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found X

If Found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Docket: NA

Volume: NA

Instrument #:

Comments: NA

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AUL: Found Not Found X

If Found, Describe:

1st Party: NA

2nd Party: NA

Dated: NA

Recorded: NA

Book: NA

Page: NA

Docket: NA

Volume: NA

Instrument #:

Comments:

5010 AZUSA CANYON RD

BALDWIN PARK, CA 91706

Inquiry Number: 4765772.7
11/01/2016

EDR Environmental Lien and AUL Search

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Shelton, CT 06484
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- Search for ownership information;
- Research official land title documents recorded at jurisdiction agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- Access to copy of deed;
- Search for environmental encumbering instrument(s) associated with the deed;
- Provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- Provide a copy of the deed or cite documents reviewed.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

BALDWIN PARK, CA 91706

RESEARCH SOURCE

Source 1: LOS ANGELES COUNTY RECORDER

Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	DEED
Title is vested in:	GTE CALIFORNIA INC
Title received from:	
Date Executed:	
Date Recorded:	1966
Book:	
Page:	
Volume:	
Instrument#:	
Docket:	
Land Record Comments:	DEED RECORDED PRIOR TO 1980

Legal Description: 2.42 MORE OR LESS ACS COM E 340 FT FROM NW COR OF SW 1/4 OF NW 1/4 OF SEC 9 T 1S R 10W TH S TO N LINE OF S 5 ACS OF N 1/2 OF W 1/2 OF SW 1/4 OF NW 1/4 OF SD SEC TH E THEREON TO E LINE OF W 1/2 OF SD LOT 9

Current Owner: GTE CALIFORNIA INC

Property Identifiers: 8417-026-801

Comments: DEED RECORDED PRIOR TO 1980

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found Not Found X

If Found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Docket: NA

Volume: NA

Instrument #:

Comments: NA

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AUL: Found Not Found X

If Found, Describe:

1st Party: NA

2nd Party: NA

Dated: NA

Recorded: NA

Book: NA

Page: NA

Docket: NA

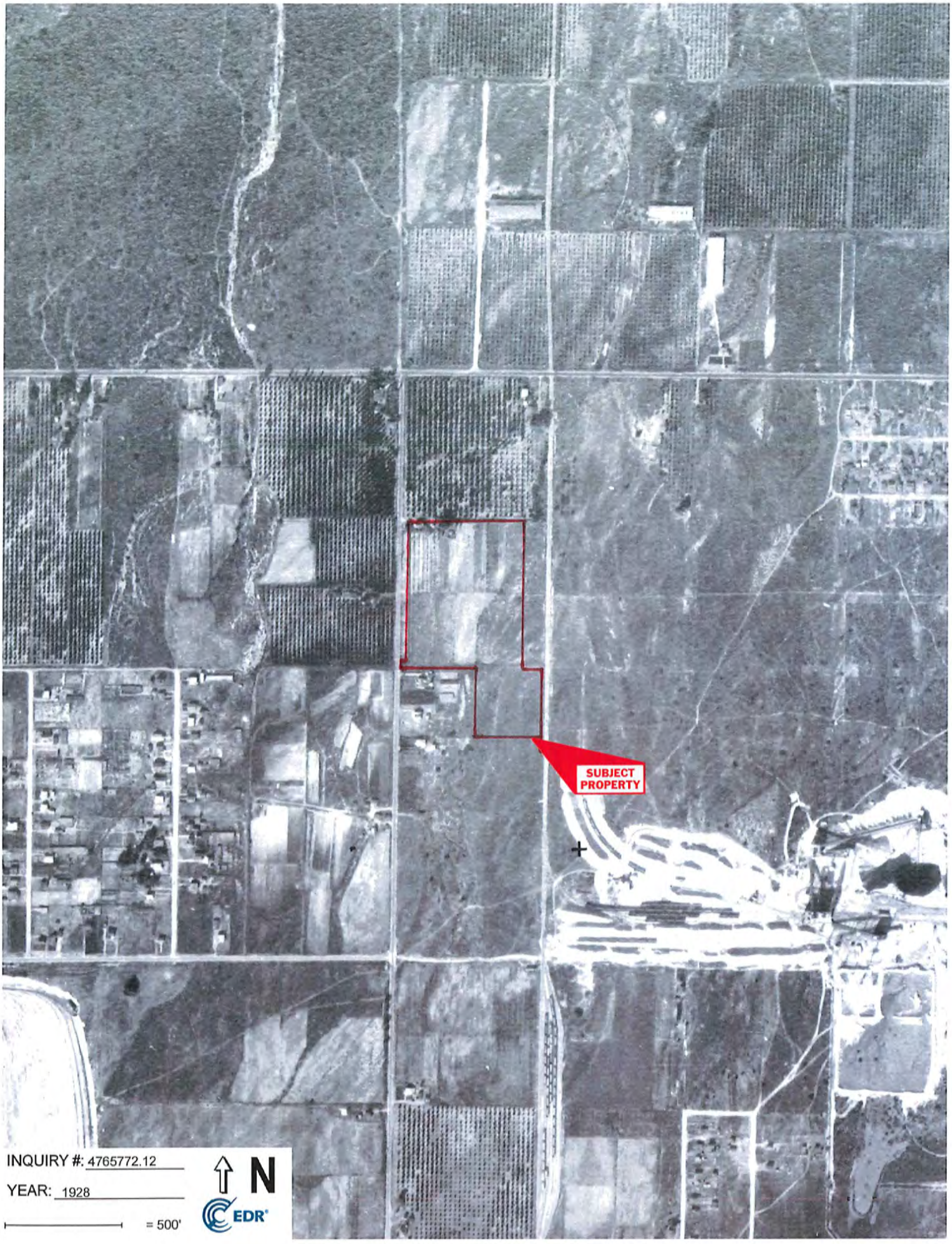
Volume: NA

Instrument #:

Comments:

APPENDIX D

HISTORICAL LAND USE INFORMATION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INQUIRY #: 4765772.12
YEAR: 1928
= 500'
N
EDR

SUBJECT PROPERTY
INQUIRY #: 4765772.12
YEAR: 1938
= 500'
N
EDR

SUBJECT PROPERTY
INQUIRY #: 4765772.12
YEAR: 1948
= 500'
N
EDR

SUBJECT PROPERTY
INQUIRY #: 4765772.12
YEAR: 1952
= 500'
N
EDR

SUBJECT PROPERTY
INQUIRY #: 4765772.12
YEAR: 1964
= 500'
N
EDR

SUBJECT PROPERTY
INQUIRY #: 4765772.12
YEAR: 1977
= 500'
N
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SUBJECT PROPERTY
INQUIRY #: 4765772.12
YEAR: 1979
= 500'
N
EDR

SUBJECT PROPERTY
INQUIRY #: 4765772.12
YEAR: 1981
= 500'
N
EDR

INQUIRY #: 4765772.12

YEAR: 1983

= 500'

N

EDR

SUBJECT PROPERTY
INQUIRY #: 4765772.12
YEAR: 1990
= 500'
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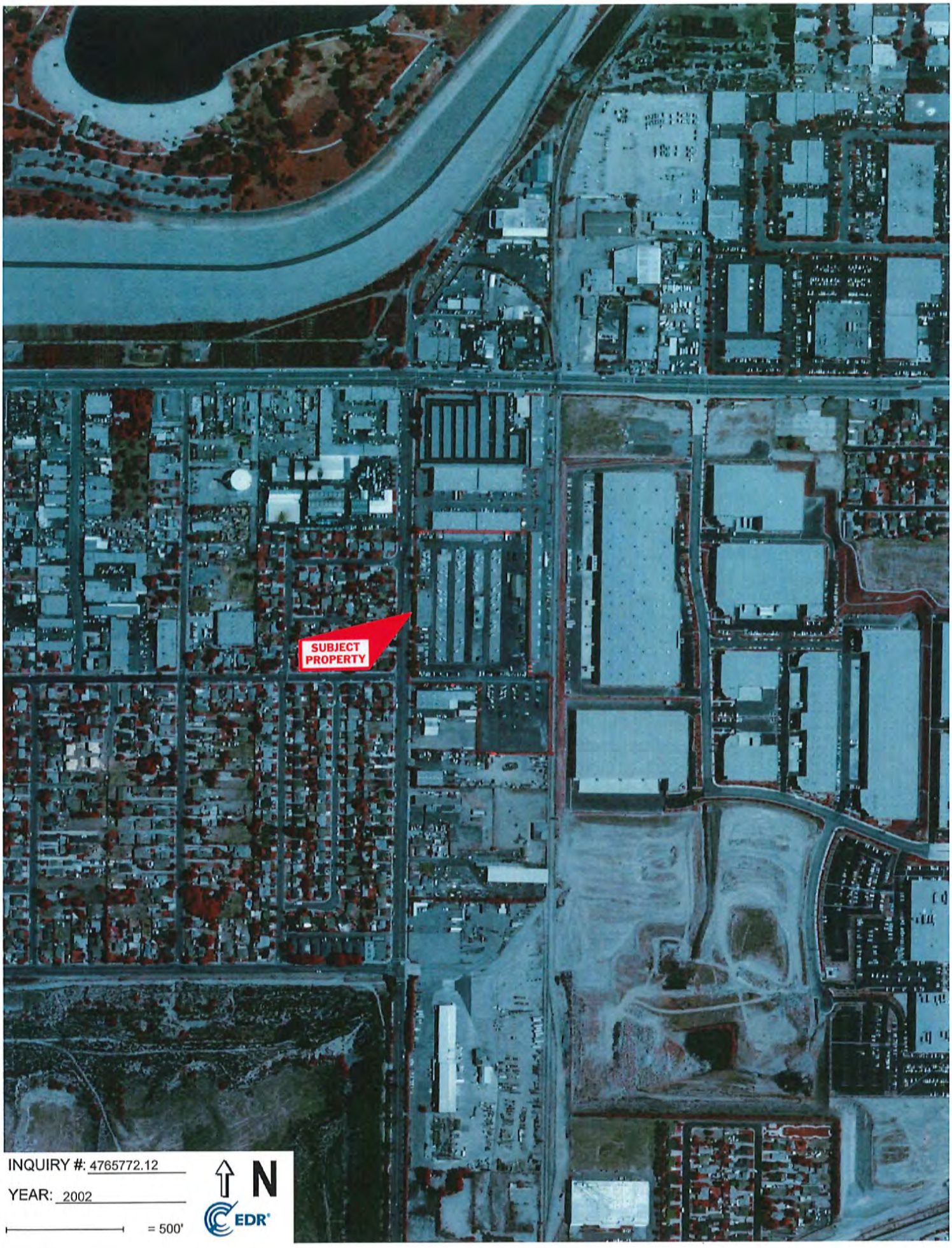
EDR

SUBJECT PROPERTY
INQUIRY #: 4765772.12
YEAR: 1994
= 500'
N
EDR


SUBJECT PROPERTY
INQUIRY #: 4765772.12
YEAR: 2002
= 500'
N
EDR

SUBJECT PROPERTY
INQUIRY #: 4765772.12
YEAR: 2005
= 500'
N
EDR

SUBJECT PROPERTY
INQUIRY #: 4765772.12
YEAR: 2009
= 500'
N
EDR

SUBJECT PROPERTY
INQUIRY #: 4765772.12
YEAR: 2010
= 500'
N
EDR

SUBJECT PROPERTY
INQUIRY #: 4765772.12
YEAR: 2012
= 500'
N
EDR

Frontier Irwindale
5010 Azusa Canyon Road
Baldwin Park, CA 91706

Inquiry Number: 4765772.5
October 28, 2016

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2013	Cole Information Services	-	X	X	-
2008	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2006	Haines Company	-	-	-	-
2004	Haines Company	-	-	-	-
2003	Haines & Company	-	X	X	-
2001	Haines Company, Inc.	-	-	-	-
2000	Haines	-	-	-	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	-	X	X	-
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	-	-	-
1990	PACIFIC BELL WHITE PAGES	-	-	-	-
1986	Pacific Bell	-	-	-	-
1985	Pacific Bell	-	X	X	-
1981	Pacific Telephone	-	-	-	-
1980	Pacific Telephone	-	X	X	-
1976	R.L. Polk & Co Publishers	-	-	-	-
1975	Pacific Telephone	-	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	R. L. Polk & Co.	-	-	-	-
1970	Pacific Telephone	-	-	-	-
1969	Pacific Telephone	-	-	-	-
1967	R. L. Polk & Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1966	Pacific Telephone	-	X	X	-
1965	GTE	-	-	-	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	-	-	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	X	X	-
1958	Pacific Telephone	-	-	-	-
1957	Pacific Telephone	-	X	X	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Los Angeles Directory Co.	-	-	-	-
1950	Pacific Telephone	-	X	X	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Associated Telephone Company, Ltd.	-	-	-	-
1947	Pacific Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	R. L. Polk & Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	TRIBUNE-NEWS PUBLISHING CO.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
15558 Arrow Highway	Client Entered	
15562 Arrow Highway	Client Entered	
5102 Azusa Canyon Road	Client Entered	X
5104 Azusa Canyon Road	Client Entered	X
5106 Azusa Canyon Road	Client Entered	X
5108 Azusa Canyon Road	Client Entered	X
4954 Azusa Canyon Road	Client Entered	X
4946 Azusa Canyon Road	Client Entered	X
4938 Azusa Canyon Road	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

5010 Azusa Canyon Road
Baldwin Park, CA 91706

FINDINGS DETAIL

Target Property research detail.

AZUSA CANYON RD

5010 AZUSA CANYON RD

Year	*Uses*	*Source*
2008	VERIZON CALIFORNIA	Cole Information Services

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

ANNISTON AVE

4912 ANNISTON AVE

Year	Uses	Source
2003	ALONZO Alan	Haines & Company
	RUELAS Bemardo	Haines & Company
	MILLER Ronald	Haines & Company
	ESPARZAJaviar	Haines & Company
	JAUREGUI Juan	Haines & Company
	MILLER Marlene	Haines & Company
	CEJA Adolfo	Haines & Company
	DELGADO Anibal	Haines & Company
	GONZALEZ Ivan	Haines & Company
	DOMINGUEZJoe	Haines & Company
	BONILLA Lillian	Haines & Company
	AMAYA Nelson	Haines & Company
	MENDEZ Patricio	Haines & Company
	MONTIELDavid	Haines & Company
	SARALEGUI H	Haines & Company
	GARCIA Juan Luis	Haines & Company
	BAUTISTA Maria	Haines & Company
	BAUTISTA Ena	Haines & Company
	MAGALLON Martini	Haines & Company
	PRECIADOJorge	Haines & Company
	APARTMENTS BAUTISTA Adolofo	Haines & Company
1995	be La Mora Michael	Pacific Bell
1985	DE LA MORA MICHAEL	Pacific Bell

4913 ANNISTON AVE

Year	Uses	Source
1985	SESSUMS JULIE	Pacific Bell
1975	OJEDA BERNARD	Pacific Telephone

FINDINGS

4925 ANNISTON AVE

Year	Uses	Source
1995	California Drain Cleaning & Plumbing	Pacific Bell

4934 ANNISTON AVE

Year	Uses	Source
1995	Miller Ronald & Marlene	Pacific Bell
1985	WOODS MARLENE	Pacific Bell
1980	AL ROOFING ANNISTON AVE BALDWIN PARK	Pacific Telephone
	AL ROOFING & SIDING CO ANNISTON AVE BALDWIN PARK	Pacific Telephone

4935 ANNISTON AVE

Year	Uses	Source
1995	Preciado Jorge	Pacific Bell

4940 ANNISTON AVE

Year	Uses	Source
1980	FLORES ADELA ANNISTON AVE BALDWIN PARK	Pacific Telephone
	GUTIERREZ RAY ANNISTON AVE BALDWIN PARK	Pacific Telephone

4941 ANNISTON AVE

Year	Uses	Source
1985	CALDERON HERMINIO	Pacific Bell
1980	CALDERON HERMINIO ANNISTON AVE BALDWIN PARK	Pacific Telephone
1975	LANE RONALD	Pacific Telephone

4945 ANNISTON AVE

Year	Uses	Source
1980	DELLARIPA NICHOLAS A ANNISTON AVE BALDWIN PARK	Pacific Telephone
1975	DELLARIPA VICTOR A	Pacific Telephone

4946 ANNISTON AVE

Year	Uses	Source
1985	MEYERS MICHAEL	Pacific Bell
1980	MEYERS MICHAEL ANNISTON AVE BALDWIN PARK	Pacific Telephone
1975	MEYERS MICHAEL	Pacific Telephone

FINDINGS

4950 ANNISTON AVE

Year	Uses	Source
1975	GARCIA NOBERTO	Pacific Telephone

4956 ANNISTON AVE

Year	Uses	Source
2008	JUANITAS HOUSECLEANING	Cole Information Services

4957 ANNISTON AVE

Year	Uses	Source
1995	Israel Lourdes	Pacific Bell
1975	AYALA BENJAMIN BALDWIN PARK	Pacific Telephone
	AYALA CARMEN	Pacific Telephone

4962 ANNISTON AVE

Year	Uses	Source
2003	ESCOBEDO Juan Flores	Haines & Company
	FLORES Maria	Haines & Company
1980	GOMEZ JOSE ANNISTON AVE BALDWIN PARK	Pacific Telephone

4966 ANNISTON AVE

Year	Uses	Source
2003	RUIZ Dellino	Haines & Company
1995	Ruiz E Cov	Pacific Bell
	Ruiz E	Pacific Bell
	Rulz E	Pacific Bell
	Ruiz E	Pacific Bell
	Ruiz E	Pacific Bell
	Ruin E Whit	Pacific Bell
	Ruiz Donna	Pacific Bell
	Ruin Delfino A	Pacific Bell
1985	RUIZ DELFINO A	Pacific Bell
1980	RUIZ ALFONSO ANNISTON AVE BALDWIN PARK	Pacific Telephone

4967 ANNISTON AVE

Year	Uses	Source
2003	RANGELAscencion	Haines & Company

FINDINGS

4972 ANNISTON AVE

Year	Uses	Source
2003	ALCALAJose	Haines & Company
	CERVANTEZ Maria	Haines & Company

4973 ANNISTON AVE

Year	Uses	Source
2003	ANGELJosae	Haines & Company
1985	MONTOYA BENJAMIN N	Pacific Bell
1980	MONTOYA BENJAMIN N ANNISTON AVE BALDWIN PARK	Pacific Telephone
1975	MONTOYA BENJAMIN N	Pacific Telephone
1966	MONTOYA BENJ N	Pacific Telephone

ARROW HWY

15558 ARROW HWY

Year	Uses	Source
2013	VUCO PRECISION & MACHINERY	Cole Information Services
2008	INTERSTATE BATTSEY SYSTEM OF EAST SA	Cole Information Services

AZUSA CANYON RD

4811 AZUSA CANYON RD

Year	Uses	Source
2013	DONLENS JR MARKET	Cole Information Services
2008	DONIENS JR MARKET	Cole Information Services
2003	DONLENSJRMARKET	Haines & Company
1995	Donlens Jr Market	Pacific Bell
1985	DONLENS JR MARKET	Pacific Bell
	DONLENS SANDWICH SHOPPE I	Pacific Bell
1975	TOMICK S LIQUOR STORE	Pacific Telephone

4829 AZUSA CANYON RD

Year	Uses	Source
2003	CAZARES Andres	Haines & Company
1995	Cazares Andres	Pacific Bell
1985	CAZARES ANDRES	Pacific Bell

FINDINGS

4831 AZUSA CANYON RD

Year	Uses	Source
2003	CARRILLO Efrain	Haines & Company
1985	WHEELER PAM	Pacific Bell
	RAY DANL JR	Pacific Bell
1975	RAY DAN L PLASTERING	Pacific Telephone
1966	RAY DAN L PLASTRNG	Pacific Telephone

4839 AZUSA CANYON RD

Year	Uses	Source
2003	8 Sl LVACesar	Haines & Company
1985	BLEVINS LEO A	Pacific Bell
1975	BLEVINS LEO A	Pacific Telephone

4841 AZUSA CANYON RD

Year	Uses	Source
2003	OVILLASENOR Richard 00 O	Haines & Company

4851 AZUSA CANYON RD

Year	Uses	Source
2003	S 1 LVAE	Haines & Company
	MARQUEZ Salvador	Haines & Company
	:SILVA Eloisa	Haines & Company
1985	SILVA BENJAMIN	Pacific Bell

4853 AZUSA CANYON RD

Year	Uses	Source
2003	BLANCOJose	Haines & Company

4857 AZUSA CANYON RD

Year	Uses	Source
2003	ORTIZ Pablo	Haines & Company
1995	Ortlz Pablo	Pacific Bell

4863 AZUSA CANYON RD

Year	Uses	Source
2003	TOPETE Mar	Haines & Company
	DORADO Socorro	Haines & Company
	ORTIZ Hectr	Haines & Company
1995	Topete Maria	Pacific Bell
1975	RAMOS JOAQUIN	Pacific Telephone

FINDINGS

4903 AZUSA CANYON RD

Year	Uses	Source
2003	CHAVEZAguila Araceli	Haines & Company
	RENTERIA Raul	Haines & Company

4907 AZUSA CANYON RD

Year	Uses	Source
2003	CAMARENAJorge	Haines & Company
	a LEPE Santiago	Haines & Company
1985	BARRAGON JULIA R	Pacific Bell
1975	BARRAGON JULIA R	Pacific Telephone
1966	DOWNING PAULINE	Pacific Telephone

4913 AZUSA CANYON RD

Year	Uses	Source
2003	TAPIA Ramon	Haines & Company
1975	GLASS MICHAEL J	Pacific Telephone

4917 AZUSA CANYON RD

Year	Uses	Source
2003	GIL Francisco J	Haines & Company
	GUTIERREZ Luis	Haines & Company
1985	PINTO GUADALUPE	Pacific Bell
1966	DUNWOODY BENNIE	Pacific Telephone

4923 AZUSA CANYON RD

Year	Uses	Source
2003	HAMMOND Tommy	Haines & Company

4926 AZUSA CANYON RD

Year	Uses	Source
2013	MALCOLM DRILLING	Cole Information Services
2008	MALCOLM DRILLING CO INC	Cole Information Services
2003	MALCOLM DRILLING	Haines & Company
	COMPANY INC V G Z ENTERPRISES	Haines & Company
1995	CMZ Co Inc	Pacific Bell
	Zonver Drilling Co Inc	Pacific Bell
	Zook BJ Mon	Pacific Bell
1980	SELMAN S MACHINERY SERVICES AZUSA CANYON RD IRWINDALE	Pacific Telephone
1975	SELMAN S MACHINERY SERVICES	Pacific Telephone

FINDINGS

4929 AZUSA CANYON RD

Year	Uses	Source
2003	SLOCUM Patrick	Haines & Company
1975	JIMENEZ DANL B	Pacific Telephone

4935 AZUSA CANYON RD

Year	Uses	Source
2003	ANDRADE Manuel	Haines & Company
	GARCIA Celn	Haines & Company
1985	HUNTER FRED J	Pacific Bell
	MONTERO F A	Pacific Bell
1980	MONTERO F A AZUSA CANYON RD BALDWIN PARK	Pacific Telephone
	HUNTER FRED J AZUSA CANYON RD BALDWIN PARK	Pacific Telephone
1975	MONTERO F A BALDWIN PARK	Pacific Telephone
	HUNTER FRED J	Pacific Telephone

4936 AZUSA CANYON RD

Year	Uses	Source
2003	XXXX	Haines & Company

4938 AZUSA CANYON RD

Year	Uses	Source
2013	AAG ICE CREAM	Cole Information Services
	AAG ICE CREAM	Cole Information Services
2008	ALONDRAS ICE CREAM	Cole Information Services
	ALONDRAS ICE CREAM	Cole Information Services
2003	LOPEZGuslavo	Haines & Company
1995	Rodriguez JG Trucking	Pacific Bell
1985	RODRIGUEZ J G TRUCKING	Pacific Bell
1980	BICE D L TRUCKING CO AZUSA CANYON RD IRWINDALE	Pacific Telephone
	BICE D L TRUCKING CO AZUSA CANYON RD IRWINDALE	Pacific Telephone
1975	BICE D L TRUCKING CO	Pacific Telephone
	BICE D L TRUCKING CO	Pacific Telephone

4939 AZUSA CANYON RD

Year	Uses	Source
2003	RODRIGUEZ Jorge	Haines & Company

FINDINGS

4945 AZUSA CANYON RD

Year	Uses	Source
1985	CLEGG ALBERT C & SONS	Pacific Bell
1980	CLEGG ALBERT C & SONS AZUSA CANYON RD BALDWIN PARK	Pacific Telephone
1975	CLEGG ALBERT	Pacific Telephone

4946 AZUSA CANYON RD

Year	Uses	Source
2013	ARROW ENGINEERING	Cole Information Services
	ARROW ENGINEERING	Cole Information Services
2008	ARROW ENGINEERING	Cole Information Services
	ARROW ENGINEERING	Cole Information Services
2003	XXXX	Haines & Company
1995	Hager Construction	Pacific Bell
	Arrow Engineering	Pacific Bell
	Hager D	Pacific Bell
1985	ARROW ENGINEERING	Pacific Bell
	HAGER CONSTRUCTION	Pacific Bell
1980	SRCO INC AZUSA CANYON RD IRWINDALE	Pacific Telephone
	SRCO INC AZUSA CANYON RD IRWINDALE	Pacific Telephone
	ARROW ENGINEERING AZUSA CANYON RD IRWINDALE	Pacific Telephone
1975	ABJ ENTERPRISES	Pacific Telephone

4951 AZUSA CANYON RD

Year	Uses	Source
2003	DELARA Socorro	Haines & Company
1975	RAWLS M BALDWIN PARK	Pacific Telephone

4954 AZUSA CANYON RD

Year	Uses	Source
2013	SAMS FOREIGN & DOMESTIC AUTO CENTER	Cole Information Services
	SAMS FOREIGN & DOMESTIC AUTO CENTER	Cole Information Services
2008	SAMS FOREIGN & DOM AUTO CENTER	Cole Information Services
	SAMS FOREIGN & DOM AUTO CENTER	Cole Information Services
2003	SAMS	Haines & Company
	FOREIGN&DOMESTIC	Haines & Company

FINDINGS

Year	Uses	Source
2003	AUTO CT	Haines & Company
1995	C MC Engineering	Pacific Bell
	CMC Intematl Development Inc	Pacific Bell
	O & B	Pacific Bell
	E&B Air Conditioning	Pacific Bell
1985	CM C ENGINEERING	Pacific Bell
	IMCO	Pacific Bell
1980	C M C ENGINEERING AZUSA CANYON RD IRWINDALE	Pacific Telephone
	IMCO-INMAN MARINE CORP AZUSA CANYON RD IRWINDALE	Pacific Telephone
1975	BOOM & CART CO	Pacific Telephone
1966	MEISSNER LEONARD	Pacific Telephone

4957 AZUSA CANYON RD

Year	Uses	Source
2003	0 GAPACETEJesus	Haines & Company
1995	Capacete Jesus	Pacific Bell
1985	CAPACETE JESUS	Pacific Bell
1980	CAPACETE JESUS AZUSA CANYON RD BALDWIN PARK	Pacific Telephone

4983 AZUSA CANYON RD

Year	Uses	Source
2003	INDSTRL PAVING INC	Haines & Company
	PYRAMID RESOURCES	Haines & Company

5011 AZUSA CANYON RD

Year	Uses	Source
2003	0 ARROYO Hector	Haines & Company
1995	Arroyo Helen	Pacific Bell
	Arroyo Hector	Pacific Bell
1985	ARROYO HECTOR	Pacific Bell
1980	ARROYO HECTOR AZUSA CANYON RD BALDWIN PARK	Pacific Telephone

5023 AZUSA CANYON RD

Year	Uses	Source
2003	XXXX	Haines & Company
1995	Norris Roy A	Pacific Bell
1980	NORRIS E A PLUMBING CO AZUSA CANYON RD BALDWIN PARK	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	NORRIS E A PLUMBING CO	Pacific Telephone

5029 AZUSA CANYON RD

Year	Uses	Source
2003	BRYAN Karl	Haines & Company
1995	Bryan Kari D	Pacific Bell
1985	BRYAN KARL D	Pacific Bell
1980	BRYAN KARL D AZUSA CANYON RD BALDWIN PARK	Pacific Telephone
1975	BRYAN KARL D	Pacific Telephone

5035 AZUSA CANYON RD

Year	Uses	Source
2003	BRYANKarl	Haines & Company

5041 AZUSA CANYON RD

Year	Uses	Source
2003	XXXX	Haines & Company
1995	Solis George Torres	Pacific Bell

5102 AZUSA CANYON RD

Year	Uses	Source
2013	ESMOND NATURAL USA INC	Cole Information Services
	ESMOND NATURAL USA INC	Cole Information Services
2008	ESMOND NATURAL USA INC	Cole Information Services
	ESMOND NATURAL USA INC	Cole Information Services
2003	THOUSANDOAKS	Haines & Company
1995	Ford Printing & Mailing Inc	Pacific Bell
	Ford Printing & Mailing Inc	Pacific Bell
1985	FORD PRINTING & MAILING INC	Pacific Bell
	FORD PRINTING & MAILING	Pacific Bell

5104 AZUSA CANYON RD

Year	Uses	Source
2003	VINIIMPORTS	Haines & Company

5106 AZUSA CANYON RD

Year	Uses	Source
2013	FINEPITCH ELECTRONIC ASSEMBL	Cole Information Services
	FINEPITCH ELECTRONIC ASSEMBL	Cole Information Services

FINDINGS

Year	Uses	Source
2008	YUTAKA ELECTRIC INTERNATIONAL INC	Cole Information Services
	YEC AMERICA INC	Cole Information Services
	YUTAKA ELECTRIC INTERNATIONAL INC	Cole Information Services
	YEC AMERICA INC	Cole Information Services
2003	FALCON ELECTRIC 626 962 777mo + YEC AMERICA INC	Haines & Company
	INTL INC	Haines & Company
	YUTAKA ELECTRIC	Haines & Company

5108 AZUSA CANYON RD

Year	Uses	Source
2013	PENAVICO GROUP INTERNATL	Cole Information Services
	PENAVICO GROUP INTERNATL	Cole Information Services
2008	TOP THREE ENTERPRISES INC	Cole Information Services
	PENAVICO GROUP INTERNATIONAL	Cole Information Services
	TOP THREE ENTERPRISES INC	Cole Information Services
	PENAVICO GROUP INTERNATIONAL	Cole Information Services
2003	INDUSTRIES	Haines & Company
	CREATIVE MOTION	Haines & Company
1985	MEDI-CURE FOAM PRODUCTS INC	Pacific Bell

5110 AZUSA CANYON RD

Year	Uses	Source
2013	GOLDEN GRAPHIX & PRINTING	Cole Information Services
	TAG FACTORY	Cole Information Services
2008	GG PRINTING INC	Cole Information Services
2003	AZUSACNYN RD 91706 CONT	Haines & Company
	GOLDEN PAPER	Haines & Company
	PACKAGING INC	Haines & Company
1985	CLIPPER ABRASIVES	Pacific Bell

5112 AZUSA CANYON RD

Year	Uses	Source
2013	WELSON & YORK	Cole Information Services
2008	WELSON & YORK	Cole Information Services
2003	XXXX	Haines & Company

FINDINGS

5114 AZUSA CANYON RD

Year	Uses	Source
2013	SUNMOON INC	Cole Information Services
2008	SUNMOON INC	Cole Information Services

5115 AZUSA CANYON RD

Year	Uses	Source
2003	XXXX	Haines & Company
1995	Scan Tech Color Incorporated	Pacific Bell
1985	WALLACE SAM P CO	Pacific Bell
1975	GALLOWAY G W CO	Pacific Telephone
	EILERS CONSTRUCTION CO	Pacific Telephone

5116 AZUSA CANYON RD

Year	Uses	Source
2013	FALCON ELECTRIC	Cole Information Services
2008	SPRINGFORD INC	Cole Information Services
	LAKEWOOD IMPORTS INC	Cole Information Services
2003	IMPERL BILLIARDS	Haines & Company

5119 AZUSA CANYON RD

Year	Uses	Source
2013	ORECO DUCT SYSTEMS	Cole Information Services
	MEZ INDUSTRIES	Cole Information Services
2008	MEZ INDUSTRIES INC	Cole Information Services
2003	MEZ INDUSTRIES	Haines & Company
	ORECO DUCT SYSTEMS	Haines & Company

Azusa Canyon Road

4938 Azusa Canyon Road

Year	Uses	Source
2003	LOPEZGuslavo	Haines & Company
1995	Rodriguez JG Trucking	Pacific Bell
1985	RODRIGUEZ J G TRUCKING	Pacific Bell
1980	BICE D L TRUCKING CO AZUSA CANYON RD IRWINDALE	Pacific Telephone
	BICE D L TRUCKING CO AZUSA CANYON RD IRWINDALE	Pacific Telephone
1975	BICE D L TRUCKING CO	Pacific Telephone
	BICE D L TRUCKING CO	Pacific Telephone

FINDINGS

4946 Azusa Canyon Road

Year	Uses	Source
2003	XXXX	Haines & Company
1995	Hager Construction	Pacific Bell
	Hager D	Pacific Bell
	Arrow Engineering	Pacific Bell
1985	ARROW ENGINEERING	Pacific Bell
	HAGER CONSTRUCTION	Pacific Bell
1980	SRCO INC AZUSA CANYON RD IRWINDALE	Pacific Telephone
	ARROW ENGINEERING AZUSA CANYON RD IRWINDALE	Pacific Telephone
	SRCO INC AZUSA CANYON RD IRWINDALE	Pacific Telephone
1975	ABJ ENTERPRISES	Pacific Telephone

4954 Azusa Canyon Road

Year	Uses	Source
2003	SAMS	Haines & Company
	FOREIGN&DOMESTIC	Haines & Company
	AUTO CT	Haines & Company
1995	C MC Engineering	Pacific Bell
	CMC Intematl Development Inc	Pacific Bell
	O & B	Pacific Bell
	E&B Air Conditioning	Pacific Bell
1985	IMCO	Pacific Bell
	CM C ENGINEERING	Pacific Bell
1980	IMCO-INMAN MARINE CORP AZUSA CANYON RD IRWINDALE	Pacific Telephone
	C M C ENGINEERING AZUSA CANYON RD IRWINDALE	Pacific Telephone
1975	BOOM & CART CO	Pacific Telephone
1966	MEISSNER LEONARD	Pacific Telephone
1960	MERJIL JULIAN JR	Pacific Telephone
1957	DANLEY MELBA	Pacific Telephone

5102 Azusa Canyon Road

Year	Uses	Source
2003	THOUSANDOAKS	Haines & Company
1995	Ford Printing & Mailing Inc	Pacific Bell
	Ford Printing & Mailing Inc	Pacific Bell
1985	FORD PRINTING & MAILING	Pacific Bell

Year	Uses	Source
1985	FORD PRINTING & MAILING INC	Pacific Bell

5104 Azusa Canyon Road

Year	Uses	Source
2003	VINIIMPORTS	Haines & Company

5106 Azusa Canyon Road

Year	Uses	Source
2003	FALCON ELECTRIC 626 962 777mo + YEC AMERICA INC	Haines & Company
	YUTAKA ELECTRIC	Haines & Company
	INTL INC	Haines & Company
1995	Horizon Enterprises	Pacific Bell
	i Horizon House Microwave Inc	Pacific Bell
	i Horizon Landscaing	Pacific Bell

5108 Azusa Canyon Road

Year	Uses	Source
2003	CREATIVE MOTION	Haines & Company
	INDUSTRIES	Haines & Company
1985	MEDI-CURE FOAM PRODUCTS INC	Pacific Bell

DEVANAH ST

15412 DEVANAH ST

Year	Uses	Source
2003	COATES 3randon 00 a	Haines & Company
1957	THOMPSON LEONARD F	Pacific Telephone

15413 DEVANAH ST

Year	Uses	Source
2003	MOUSSALLY Daoud	Haines & Company
1985	MOUSSALLY DAOUD	Pacific Bell
1975	GIBSON LARRY	Pacific Telephone
1966	PRINGLE ROY L	Pacific Telephone

15418 DEVANAH ST

Year	Uses	Source
2003	LAMADRID Rena	Haines & Company

FINDINGS

15421 DEVANAH ST

Year	Uses	Source
2003	ROBSON Roberd	Haines & Company

15422 DEVANAH ST

Year	Uses	Source
2003	GONZALEZ MT	Haines & Company

15428 DEVANAH ST

Year	Uses	Source
2003	GENARDINI Bradley	Haines & Company
1975	HERNANDEZ R	Pacific Telephone

15499 DEVANAH ST

Year	Uses	Source
2003	VENEGAS Narceso	Haines & Company

DEVANNAH ST

15413 DEVANNAH ST

Year	Uses	Source
2008	PHARAOHS FINE GIFTS	Cole Information Services

E NUBIA ST

15417 E NUBIA ST

Year	Uses	Source
1960	CARRELL KENNETH K	Pacific Telephone

15427 E NUBIA ST

Year	Uses	Source
1957	TUTHILL WM R	Pacific Telephone

15431 E NUBIA ST

Year	Uses	Source
1966	NEBEL MARVIN L	Pacific Telephone
1957	CARRELL JAY	Pacific Telephone

15437 E NUBIA ST

Year	Uses	Source
1960	BOURGEOIS EDW T	Pacific Telephone
1957	DOTTER CLAIRE M	Pacific Telephone

FINDINGS

LA SENA AVE

4934 LA SENA AVE

Year	*Uses*	*Source*
2003	GASPAR Isabel	Haines & Company
1995	GASPAR ISABEL	Pacific Bell
	Gaspar Isabel	Pacific Bell
	Gaspar Michael	Pacific Bell
	Gaspar M	Pacific Bell
1985	GASPAR ISABEL	Pacific Bell

4939 LA SENA AVE

Year	*Uses*	*Source*
2003	MIRANDA Ysidro	Haines & Company

4940 LA SENA AVE

Year	*Uses*	*Source*
1975	FABELA LUIS	Pacific Telephone

4946 LA SENA AVE

Year	*Uses*	*Source*
2003	OLMOS Ruben	Haines & Company
1985	GUERRA ARMANDO	Pacific Bell
1975	RODRIGUEZ RAUL	Pacific Telephone

4950 LA SENA AVE

Year	*Uses*	*Source*
2003	IBANEZCervando	Haines & Company
1995	I Ibanez Cervando	Pacific Bell

4951 LA SENA AVE

Year	*Uses*	*Source*
2003	ROBLES Henberto	Haines & Company

4956 LA SENA AVE

Year	*Uses*	*Source*
2003	GRIJALVA Maria	Haines & Company
1985	SOTELO ANGEL	Pacific Bell
1980	SOTELO ANGEL LA SENA AVE BALDWIN PARK	Pacific Telephone
1975	NUNEZ STEVEN M	Pacific Telephone

FINDINGS

4957 LA SENA AVE

Year	Uses	Source
2003	LOZA Richard	Haines & Company

4962 LA SENA AVE

Year	Uses	Source
2003	0 HUDEC Grace	Haines & Company
1995	Hudelson D& C LH	Pacific Bell
	Hudec Grace	Pacific Bell
1985	HUDEC GRACE	Pacific Bell

4963 LA SENA AVE

Year	Uses	Source
2003	HERNANDEZ Nicolas	Haines & Company
1975	HOY RUTH	Pacific Telephone

5002 LA SENA AVE

Year	Uses	Source
2003	TORRES Rigoberto	Haines & Company
1975	WOODRUFF GEORGE W	Pacific Telephone

5005 LA SENA AVE

Year	Uses	Source
2003	8 HERRERA Henry	Haines & Company

5010 LA SENA AVE

Year	Uses	Source
2003	SILVAMana	Haines & Company

5011 LA SENA AVE

Year	Uses	Source
2003	RAMIREZ Rafael	Haines & Company
1995	RAMERES RAFAEL	Pacific Bell
1985	RAMIREZ RAFAEL	Pacific Bell
1980	RAMIREZ RAFAEL LA SENA AVE BALDWIN PARK	Pacific Telephone

5012 LA SENA AVE

Year	Uses	Source
2003	SILVA Marha	Haines & Company

FINDINGS

5019 LA SENA AVE

Year	Uses	Source
2003	PEREZ Francisco	Haines & Company
1995	Shipman Nadine 3	Pacific Bell
	Shipnian May	Pacific Bell
	Shipman Pete	Pacific Bell
1985	SHIPMAN MAY BALDWIN PARK	Pacific Bell
1980	SHIPMAN MAY LA SENA AVE BALDWIN PARK	Pacific Telephone
1975	SHIPMAN MAY	Pacific Telephone

5020 LA SENA AVE

Year	Uses	Source
2003	OPORTILLO Hugo	Haines & Company

5025 LA SENA AVE

Year	Uses	Source
2003	OMCKEE Cecelia	Haines & Company

5028 LA SENA AVE

Year	Uses	Source
2003	FLORES Jose	Haines & Company
1995	Mendoza Perpetua	Pacific Bell
	Mendoza Pepe	Pacific Bell
	Mendoza Pedro	Pacific Bell
	MENDOZA PEDRO	Pacific Bell
1985	MENDOZA PEDRO	Pacific Bell
1980	MEEK ODES B LA SENA AVE BALDWIN PARK	Pacific Telephone
1975	MEEK ODES B	Pacific Telephone

5029 LA SENA AVE

Year	Uses	Source
2003	RODRIGUEZ Vicente	Haines & Company
1975	SEABOLT DAVID	Pacific Telephone

5033 LA SENA AVE

Year	Uses	Source
2003	LA SENA AV 91706 CONT	Haines & Company
	DURAN Maria	Haines & Company
1980	VALDIVIA LEONDRO LA SENA AVE BALDWIN PARK	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	AMAYA RICHARD I	Pacific Telephone

5034 LA SENA AVE

Year	Uses	Source
2003	HERNANDEZGilber	Haines & Company
1975	HERNANDEZ LILLIAN	Pacific Telephone

5039 LA SENA AVE

Year	Uses	Source
2003	0 DIAZRefugio	Haines & Company
1985	STUMP OREN D	Pacific Bell
1980	STUMP OREN D LA SENA AVE BALDWIN PARK	Pacific Telephone
1975	STUMP OREN D	Pacific Telephone

5045 LA SENA AVE

Year	Uses	Source
2003	JOPLIN Paul D	Haines & Company
1995	JOPLIN PAULD	Pacific Bell
	Joplin Paul D	Pacific Bell
1985	JOPLIN PAUL D BALDWIN PARK	Pacific Bell
1980	JOPLIN PAUL D LA SENA AVE BALDWIN PARK	Pacific Telephone
1975	JOPLIN PAUL D	Pacific Telephone

5051 LA SENA AVE

Year	Uses	Source
2003	MUNIZ Cados	Haines & Company
1985	HERGENREDER WILLIAM N	Pacific Bell
1975	HERGENREDER WILLIAM N	Pacific Telephone

5057 LA SENA AVE

Year	Uses	Source
2003	JOHNSON Sharon	Haines & Company
1985	JOHNSON SHARON S	Pacific Bell
1980	JOHNSON SHARON S LA SENA AVE BALDWIN PARK	Pacific Telephone
1975	JOHNSON SHARON S	Pacific Telephone

5063 LA SENA AVE

Year	Uses	Source
2003	TEAGLE Allen W	Haines & Company

Year	Uses	Source
1995	TEAGLA ALIEN W	Pacific Bell
1985	TEAGLE ALLEN W	Pacific Bell
1980	TEAGLE ALLEN W LA SENA AVE BALDWIN PARK	Pacific Telephone
1975	TEAGLE ALLEN W	Pacific Telephone

N AZUSA CANYON RD

4823 N AZUSA CANYON RD

Year	Uses	Source
1960	DUNKLE ARNOLD	Pacific Telephone
1957	DUNKLE ARNOLD	Pacific Telephone

4829 N AZUSA CANYON RD

Year	Uses	Source
1966	BASHAM W E	Pacific Telephone
1960	BASHAM W E	Pacific Telephone

4831 N AZUSA CANYON RD

Year	Uses	Source
1957	THOMPSON RICHARD R	Pacific Telephone

4839 N AZUSA CANYON RD

Year	Uses	Source
1957	BLEVINS LEO A JR	Pacific Telephone

4841 N AZUSA CANYON RD

Year	Uses	Source
1960	HALL CHAS A	Pacific Telephone

4851 N AZUSA CANYON RD

Year	Uses	Source
1966	LOWERY THURMAN A	Pacific Telephone
1960	LOWERY THURMAN A	Pacific Telephone
1957	ROSSI ALEX	Pacific Telephone

4853 N AZUSA CANYON RD

Year	Uses	Source
1966	GUERRA PEDRO G	Pacific Telephone
1960	STANDIFER FRED E	Pacific Telephone
	LOFTY CHAS E	Pacific Telephone

FINDINGS

Year	Uses	Source
1957	REITZ EUGENE H	Pacific Telephone

4863 N AZUSA CANYON RD

Year	Uses	Source
1966	MAINEZ NARCIZO	Pacific Telephone

4903 N AZUSA CANYON RD

Year	Uses	Source
1966	MEIJER RENE L	Pacific Telephone
1957	CLARIDGE RONALD E	Pacific Telephone

4907 N AZUSA CANYON RD

Year	Uses	Source
1960	BAXLEY FULTON A	Pacific Telephone

4913 N AZUSA CANYON RD

Year	Uses	Source
1966	EHLERS MARY JANE	Pacific Telephone
1960	BELLEAU HENRY C	Pacific Telephone
1957	BELLEAU HENRY C	Pacific Telephone

4917 N AZUSA CANYON RD

Year	Uses	Source
1966	MONTEY EDW J	Pacific Telephone
1960	CRIDER RALPH	Pacific Telephone
1957	MONTEY EDW J	Pacific Telephone

4923 N AZUSA CANYON RD

Year	Uses	Source
1966	PEREZ GREGORIO M	Pacific Telephone

4926 N AZUSA CANYON RD

Year	Uses	Source
1985	CROWELL & LARSON CONTR	Pacific Bell
1966	CROWELL & LARSON CONTRS	Pacific Telephone
1960	CROWELL & LARSON CONTRS	Pacific Telephone

4929 N AZUSA CANYON RD

Year	Uses	Source
1966	JIMENEZ DANL B	Pacific Telephone
1960	FLEMING JAS D	Pacific Telephone

FINDINGS

Year	Uses	Source
1957	FLEMING JAS	Pacific Telephone

4935 N AZUSA CANYON RD

Year	Uses	Source
1966	HUNTER FRED J	Pacific Telephone
	MONTERO F A	Pacific Telephone
	MONTERO F A	Pacific Telephone
1960	MONTERO F A	Pacific Telephone
	HUNTER FRED J	Pacific Telephone
	MONTERO F A	Pacific Telephone
1957	HUNTER FRED J	Pacific Telephone
	MONTERO F A	Pacific Telephone

4945 N AZUSA CANYON RD

Year	Uses	Source
1966	YATES CHARIOTTE	Pacific Telephone
1960	YATES WARREN L	Pacific Telephone
1957	ORCUTT ROBT D	Pacific Telephone

4954 N AZUSA CANYON RD

Year	Uses	Source
1960	MERJIL JULIAN JR	Pacific Telephone
1957	DANLEY MELBA	Pacific Telephone

4957 N AZUSA CANYON RD

Year	Uses	Source
1966	GARCIA JESUS J	Pacific Telephone
1960	RUIZ VALVINA	Pacific Telephone

5011 N AZUSA CANYON RD

Year	Uses	Source
1966	JARAMILLO BALTAZAR	Pacific Telephone
1950	WILSON N R	Pacific Telephone
	WILSON N R	Pacific Telephone

5015 N AZUSA CANYON RD

Year	Uses	Source
1966	BAIRD WALTER	Pacific Telephone

FINDINGS

5023 N AZUSA CANYON RD

Year	Uses	Source
1957	EVANS D L	Pacific Telephone

5029 N AZUSA CANYON RD

Year	Uses	Source
1960	KAUFMAN MARIE S	Pacific Telephone
1957	KAUFMAN MARIE S	Pacific Telephone
1950	KAUFMAN ARTHUR M	Pacific Telephone
	KAUFMAN ARTHUR M	Pacific Telephone

5041 N AZUSA CANYON RD

Year	Uses	Source
1957	PADILLA FELIX R	Pacific Telephone

5115 N AZUSA CANYON RD

Year	Uses	Source
1966	GALLOWAY G W ENGNRS	Pacific Telephone
1960	GALLOWAY G W ENGINEERS	Pacific Telephone

N LA SENA AVE

4934 N LA SENA AVE

Year	Uses	Source
1960	SLATER DONALD	Pacific Telephone

4939 N LA SENA AVE

Year	Uses	Source
1966	MIRANDA YSIDRO E	Pacific Telephone

4945 N LA SENA AVE

Year	Uses	Source
1957	AGUILAR MONICO	Pacific Telephone

4946 N LA SENA AVE

Year	Uses	Source
1966	STONE LARRY B	Pacific Telephone
1960	PRIMIANO PETE R	Pacific Telephone

4950 N LA SENA AVE

Year	Uses	Source
1966	HERNANDEZ JOS T	Pacific Telephone

FINDINGS

Year	Uses	Source
1960	HERNANDEZ JOS T	Pacific Telephone

4951 N LA SENA AVE

Year	Uses	Source
1957	CALVILLO ALFRED	Pacific Telephone

4956 N LA SENA AVE

Year	Uses	Source
1960	SUTTON COHEN R	Pacific Telephone

4957 N LA SENA AVE

Year	Uses	Source
1966	GAYLORD JAS H	Pacific Telephone
1960	SPEADLING JOYCE	Pacific Telephone

4963 N LA SENA AVE

Year	Uses	Source
1966	HOY RUTH	Pacific Telephone
1957	HOY JERRY F	Pacific Telephone

5002 N LA SENA AVE

Year	Uses	Source
1966	WOODRUFF GEO W	Pacific Telephone
1960	WOODRUFF GEO W	Pacific Telephone
1957	WOODRUFF GEO W	Pacific Telephone

5005 N LA SENA AVE

Year	Uses	Source
1960	HERRERA HENRY	Pacific Telephone

5010 N LA SENA AVE

Year	Uses	Source
1960	BECKHAM JAS E	Pacific Telephone
1957	BECKHAM JAS E	Pacific Telephone

5011 N LA SENA AVE

Year	Uses	Source
1957	VERDUGO RUDOLPH	Pacific Telephone

FINDINGS

5012 N LA SENA AVE

Year	Uses	Source
1966	DEXTER BOBBY	Pacific Telephone
1960	DEXTER BOBBY	Pacific Telephone
1957	DEXTER BOBBY	Pacific Telephone

5019 N LA SENA AVE

Year	Uses	Source
1966	SHIPMAN MAY	Pacific Telephone

5020 N LA SENA AVE

Year	Uses	Source
1966	WISE DONALD G	Pacific Telephone

5028 N LA SENA AVE

Year	Uses	Source
1966	MEEK ODES B	Pacific Telephone
1960	MEEK ODES B	Pacific Telephone

5029 N LA SENA AVE

Year	Uses	Source
1966	POTTER RALPH W	Pacific Telephone
1960	TAKEMOTO SHIRO G	Pacific Telephone
1957	TAKEMOTO SHIRO G	Pacific Telephone

5033 N LA SENA AVE

Year	Uses	Source
1966	LUGO ROBT	Pacific Telephone
	LUGO DIANE	Pacific Telephone
1957	FRANCK HERBERT H	Pacific Telephone

5034 N LA SENA AVE

Year	Uses	Source
1966	ABLES JAS M	Pacific Telephone
1960	PITTMAN WM J	Pacific Telephone
1957	PITTMAN WM J	Pacific Telephone

5039 N LA SENA AVE

Year	Uses	Source
1966	STUMP OREN D	Pacific Telephone
1960	STUMP OREN D	Pacific Telephone

5045 N LA SENA AVE

Year	Uses	Source
1966	JOPLIN PAUL D	Pacific Telephone

5051 N LA SENA AVE

Year	Uses	Source
1966	MCKINNIS CARL C	Pacific Telephone
1960	STONEBURNER GILBERT F	Pacific Telephone
1957	STONEBURNER GILBERT F	Pacific Telephone

5063 N LA SENA AVE

Year	Uses	Source
1966	TEAGLE ALLEN W	Pacific Telephone
1960	LOPEZ MANUEL A	Pacific Telephone
1957	LOPEZ MANUEL A WELDNG	Pacific Telephone

NUBIA ST

15417 NUBIA ST

Year	Uses	Source
2003	GUTIERREZAnthony	Haines & Company

15421 NUBIA ST

Year	Uses	Source
2003	ALOERSON Elaine	Haines & Company

15427 NUBIA ST

Year	Uses	Source
2003	ALVAREZJose	Haines & Company
1980	VASQUEZ TERRI NUBIA ST BALDWIN PARK	Pacific Telephone

15431 NUBIA ST

Year	Uses	Source
2003	SANCHEZ Alejandro	Haines & Company

15434 NUBIA ST

Year	Uses	Source
2003	MEDEROS Flavio	Haines & Company

FINDINGS

15437 NUBIA ST

Year	*Uses*	*Source*
2003	CASABAR Florentna	Haines & Company
1980	JOHNSTON EUGENE NUBIA ST BALDWIN PARK	Pacific Telephone
1975	MCLAUGHLIN MICHAEL	Pacific Telephone

SANDSTONE ST

15403 SANDSTONE ST

Year	*Uses*	*Source*
1995	Gameochipe Jesus	Pacific Bell

15437 SANDSTONE ST

Year	*Uses*	*Source*
1995	Radfeld Helen M	Pacific Bell
	Radford Anna Maria & Raymond Whit	Pacific Bell

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
5010 Azusa Canyon Road	2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
15403 SANDSTONE ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15412 DEVANAH ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15413 DEVANAH ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15413 DEVANNAH ST	2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15417 E NUBIA ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15417 NUBIA ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15418 DEVANAH ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
15421 DEVANAH ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15421 NUBIA ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15422 DEVANAH ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15427 E NUBIA ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15427 NUBIA ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15428 DEVANAH ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15431 E NUBIA ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15431 NUBIA ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15434 NUBIA ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15437 E NUBIA ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15437 NUBIA ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
15437 SANDSTONE ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15499 DEVANAH ST	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15558 Arrow Highway	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15558 ARROW HWY	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
15562 Arrow Highway	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4811 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4811 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4823 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4829 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4829 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4831 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4831 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4839 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4839 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4841 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4841 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4851 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4851 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4853 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4853 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4857 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4863 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4863 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4903 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4903 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4907 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4907 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4912 ANNISTON AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4913 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4913 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4913 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4917 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4917 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4923 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4923 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4925 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4926 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4926 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4926 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4929 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4929 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4934 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4934 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
4934 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4935 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4935 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4935 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4936 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4938 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4938 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4938 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4938 Azusa Canyon Road	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4939 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4939 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
4939 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4940 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4940 LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4941 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4945 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4945 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4945 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4945 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4946 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4946 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4946 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
4946 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4946 Azusa Canyon Road	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4946 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4946 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4950 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4950 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4950 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4951 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4951 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4951 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4954 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
4954 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4954 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4954 Azusa Canyon Road	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4954 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4956 ANNISTON AVE	2013, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4956 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4956 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4957 ANNISTON AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4957 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4957 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4957 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
4957 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4962 ANNISTON AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4962 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4963 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4963 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4966 ANNISTON AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4967 ANNISTON AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4972 ANNISTON AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4973 ANNISTON AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
4983 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5002 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
5002 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5005 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5005 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5010 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5010 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5011 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5011 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5011 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5011 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5012 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5012 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
5015 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5019 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5019 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5020 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5020 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5023 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5023 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5025 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5028 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5028 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5029 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
5029 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5029 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5029 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5033 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5033 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5034 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5034 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5035 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5039 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5039 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5041 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
5041 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5045 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5045 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5051 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5051 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5057 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5063 LA SENA AVE	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5063 N LA SENA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5102 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5102 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5102 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
5102 Azusa Canyon Road	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5104 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5104 Azusa Canyon Road	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5106 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5106 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5106 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5106 Azusa Canyon Road	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5108 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5108 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5108 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5108 Azusa Canyon Road	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
5110 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5110 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5112 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5112 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5114 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5115 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5115 N AZUSA CANYON RD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1965, 1964, 1963, 1962, 1961, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5116 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5116 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5119 AZUSA CANYON RD	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5119 AZUSA CANYON RD	2013, 2008, 2006, 2004, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

Frontier Irwindale

5010 Azusa Canyon Road

Baldwin Park, CA 91706

Inquiry Number: 4765772.3

October 28, 2016

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

10/28/16

Site Name:

Frontier Irwindale
5010 Azusa Canyon Road
Baldwin Park, CA 91706
EDR Inquiry # 4765772.3

Client Name:

ATC Group Services LLC
25 Cupania Circle
Monterey Park, CA 91755
Contact: Steve Anderson

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Sanborn® Library search results

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Frontier Irwindale

5010 Azusa Canyon Road

Baldwin Park, CA 91706

Inquiry Number: 4765772.4

October 28, 2016

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

10/28/16

Site Name:

Frontier Irwindale
5010 Azusa Canyon Road
Baldwin Park, CA 91706
EDR Inquiry # 4765772.4

Client Name:

ATC Group Services LLC
25 Cupania Circle
Monterey Park, CA 91755
Contact: Steve Anderson

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Search Results:

P.O.# Ph3
Project: 1011600776

Coordinates:

Latitude:	34.10425 34° 6' 15" North
Longitude:	-117.941862 -117° 56' 31" West
UTM Zone:	Zone 11 North
UTM X Meters:	413126.02
UTM Y Meters:	3774115.49
Elevation:	449.00' above sea level

Maps Provided:

2012	1925, 1927
1981	1904
1972	1898
1966	1897
1953	1894
1939	
1933	
1928	

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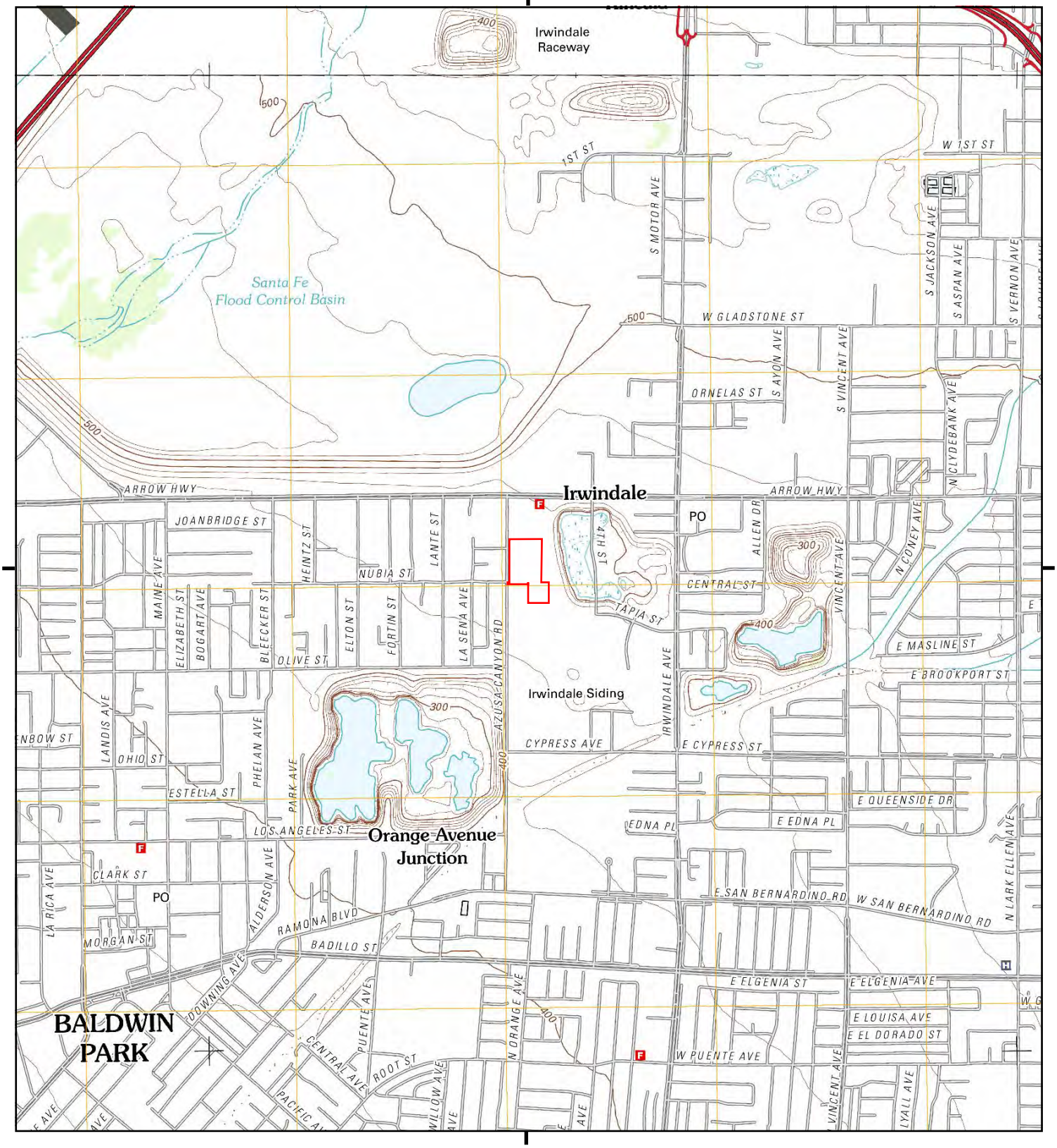
Historical Topo Map

2012



This report includes information from the following map sheet(s).

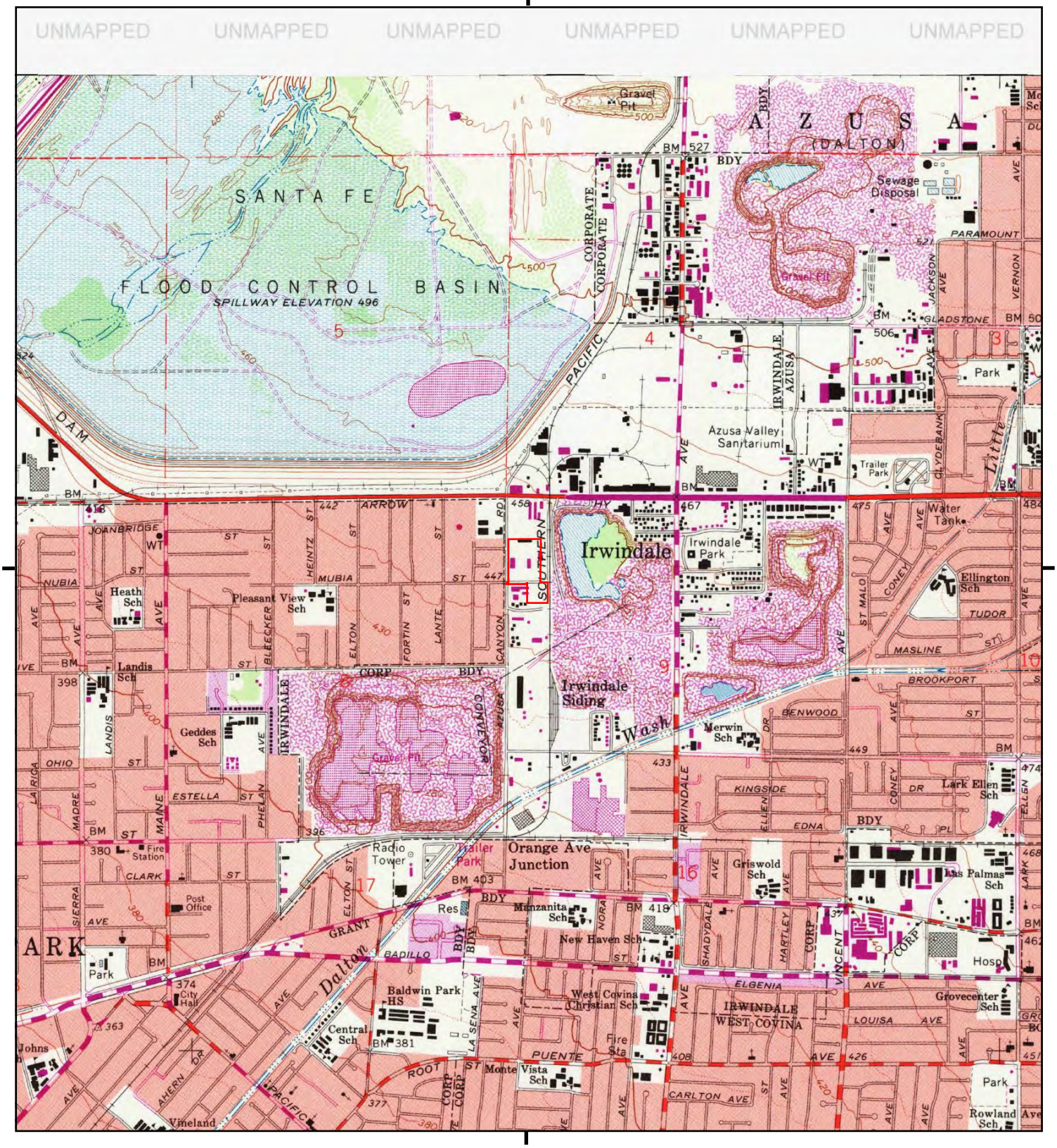
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Baldwin Park, 2012, 7.5-minute
N, Azusa, 2012, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

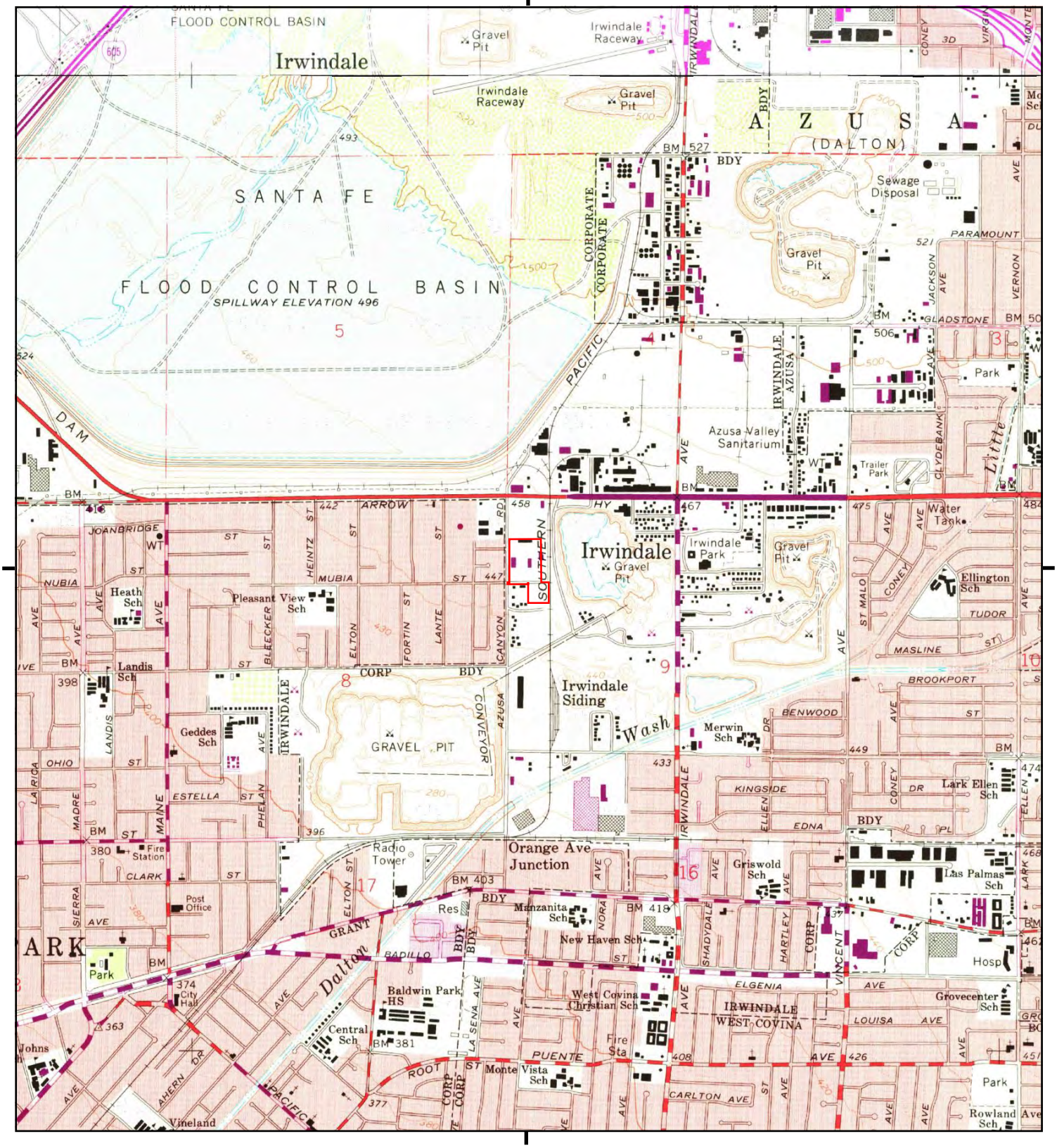
TP, Baldwin Park, 1981, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N

Historical Topo Map

1972



This report includes information from the following map sheet(s).

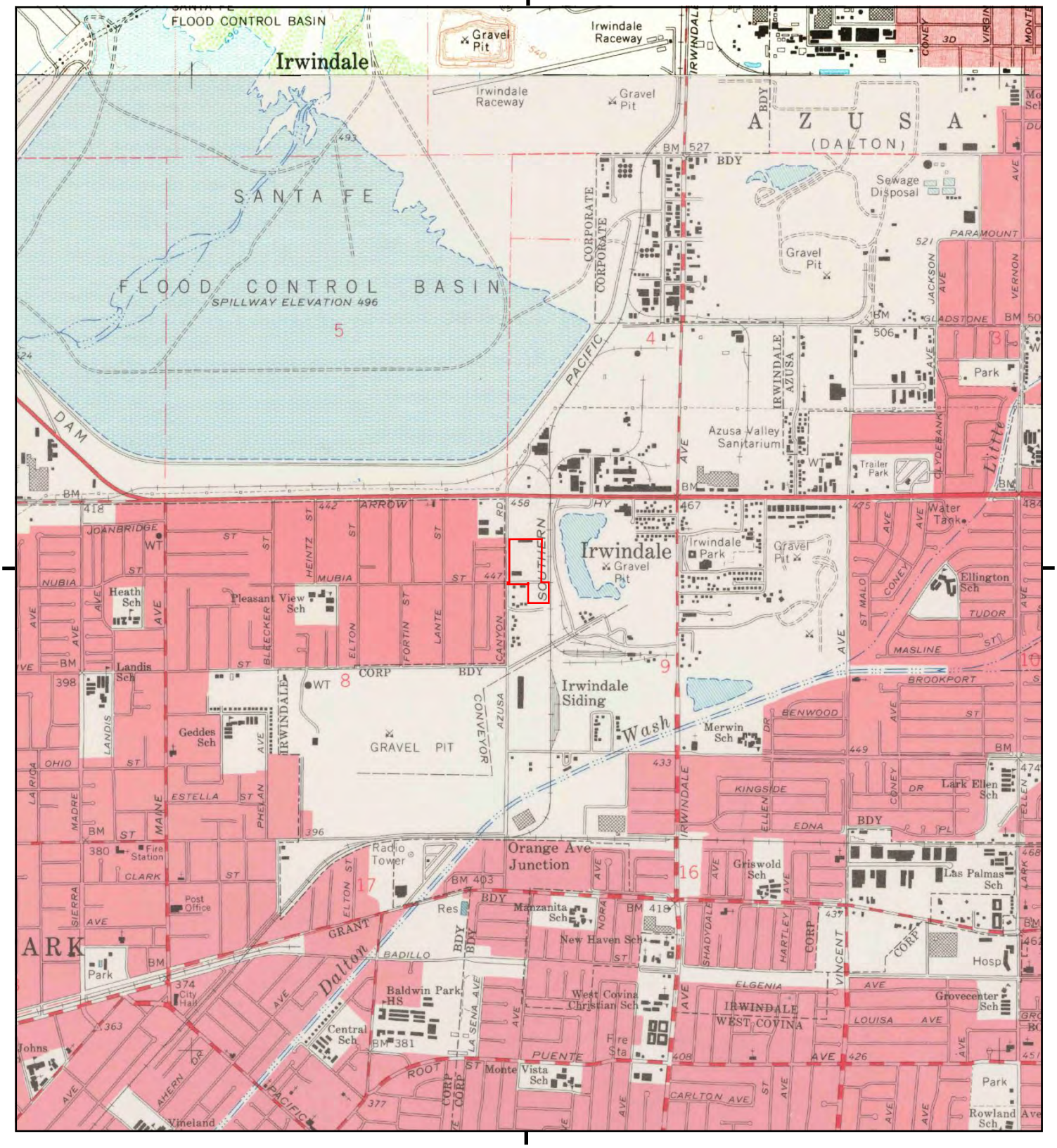
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Baldwin Park, 1972, 7.5-minute
N, Azusa, 1972, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

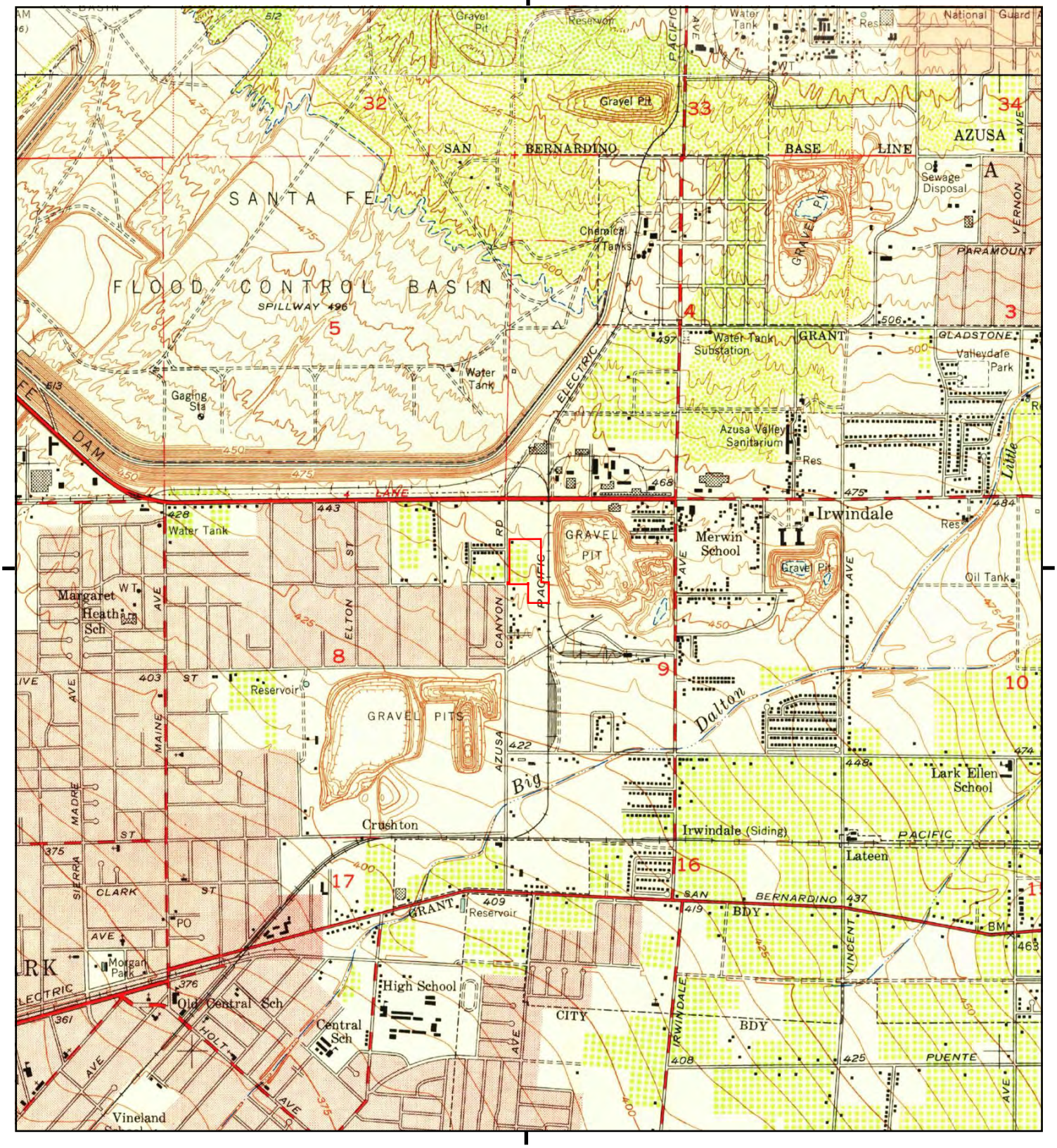
TP, Baldwin Park, 1966, 7.5-minute
N, Azusa, 1966, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N

Historical Topo Map

1953



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

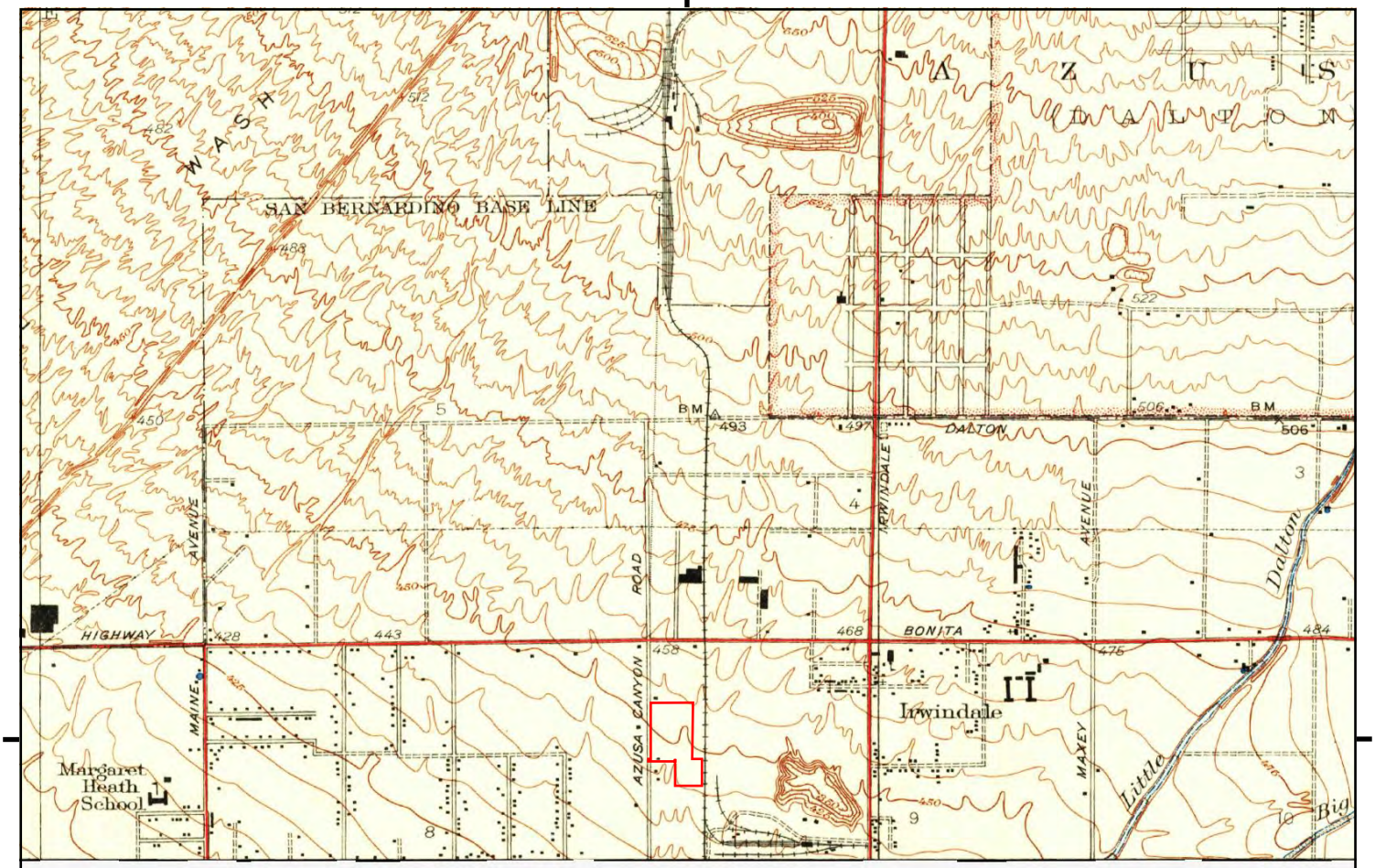
TP, Baldwin Park, 1953, 7.5-minute
N, Azusa, 1953, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N

Historical Topo Map

1939



UNMAPPED

This report includes information from the following map sheet(s).

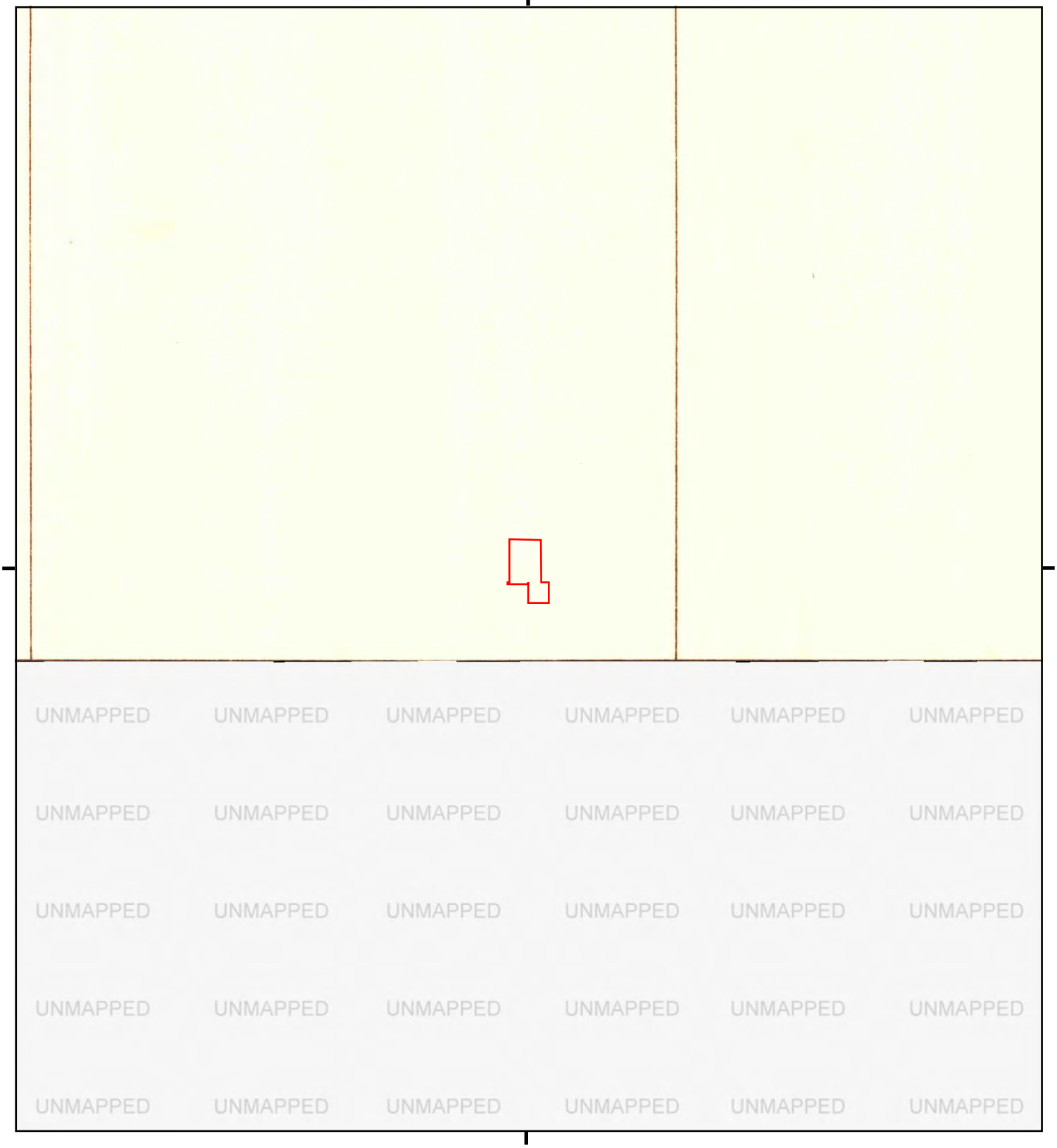
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Azusa, 1939, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



This report includes information from the following map sheet(s).

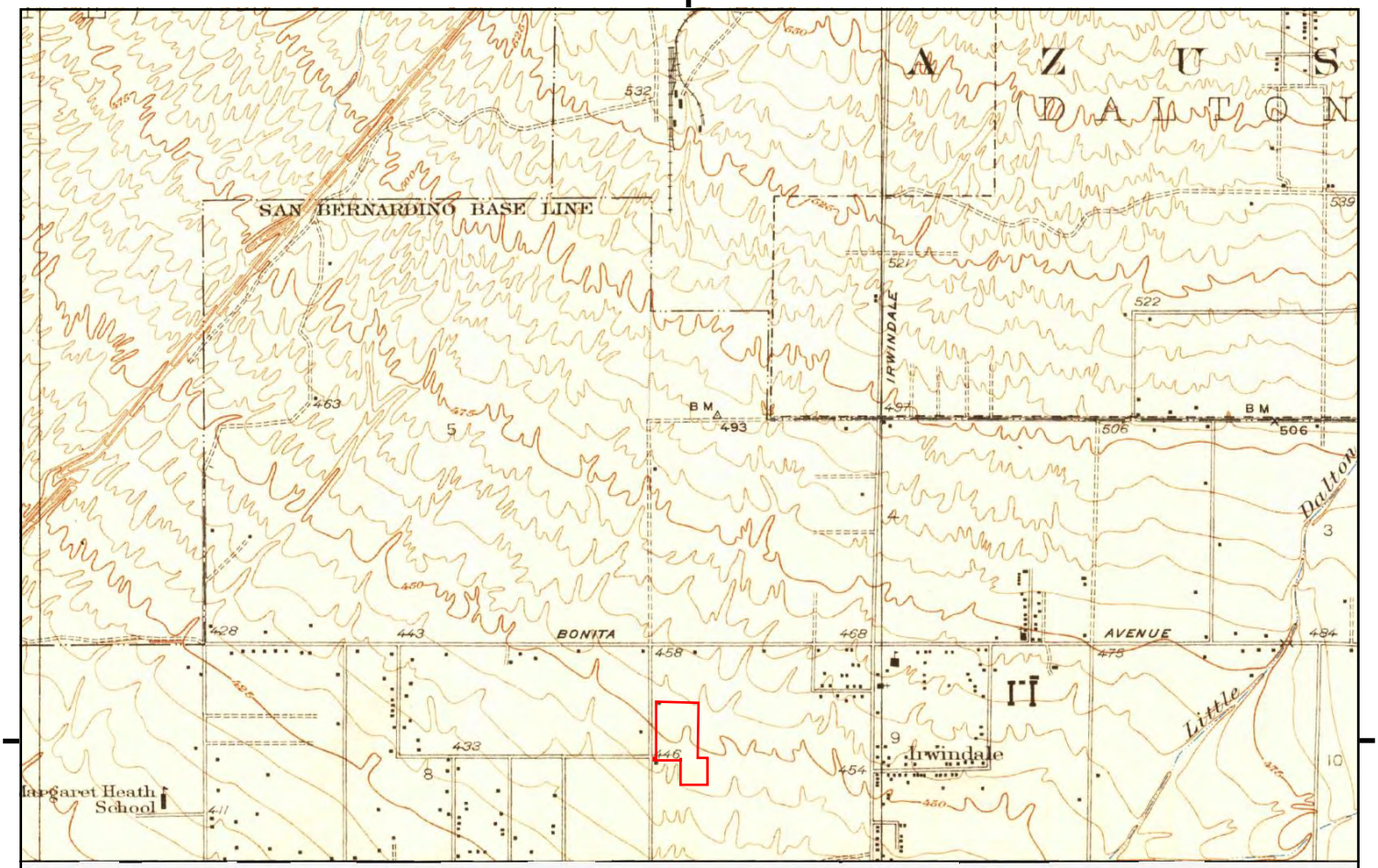
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Azusa, 1933, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



UNMAPPED

This report includes information from the following map sheet(s).

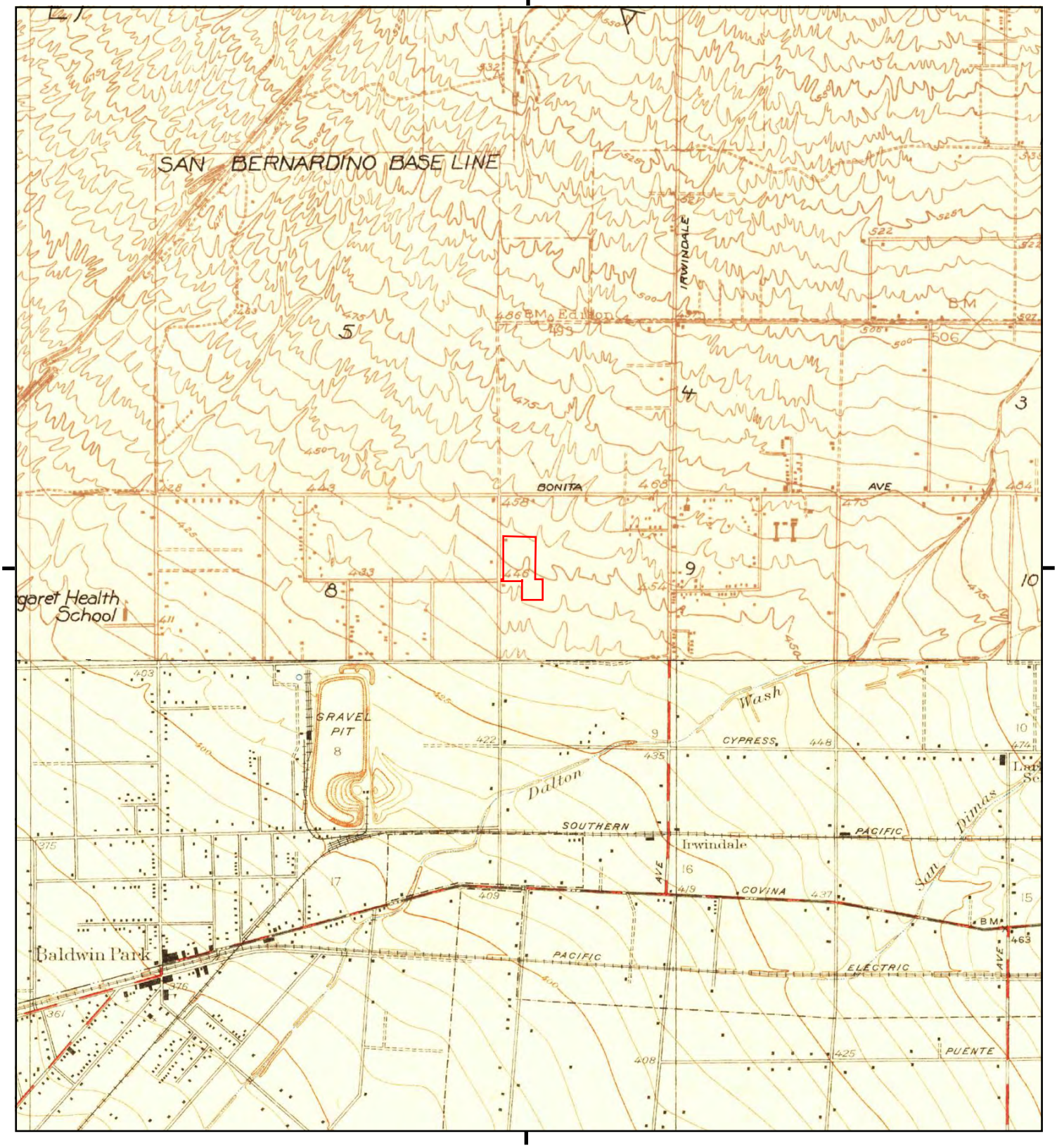
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Azusa, 1928, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



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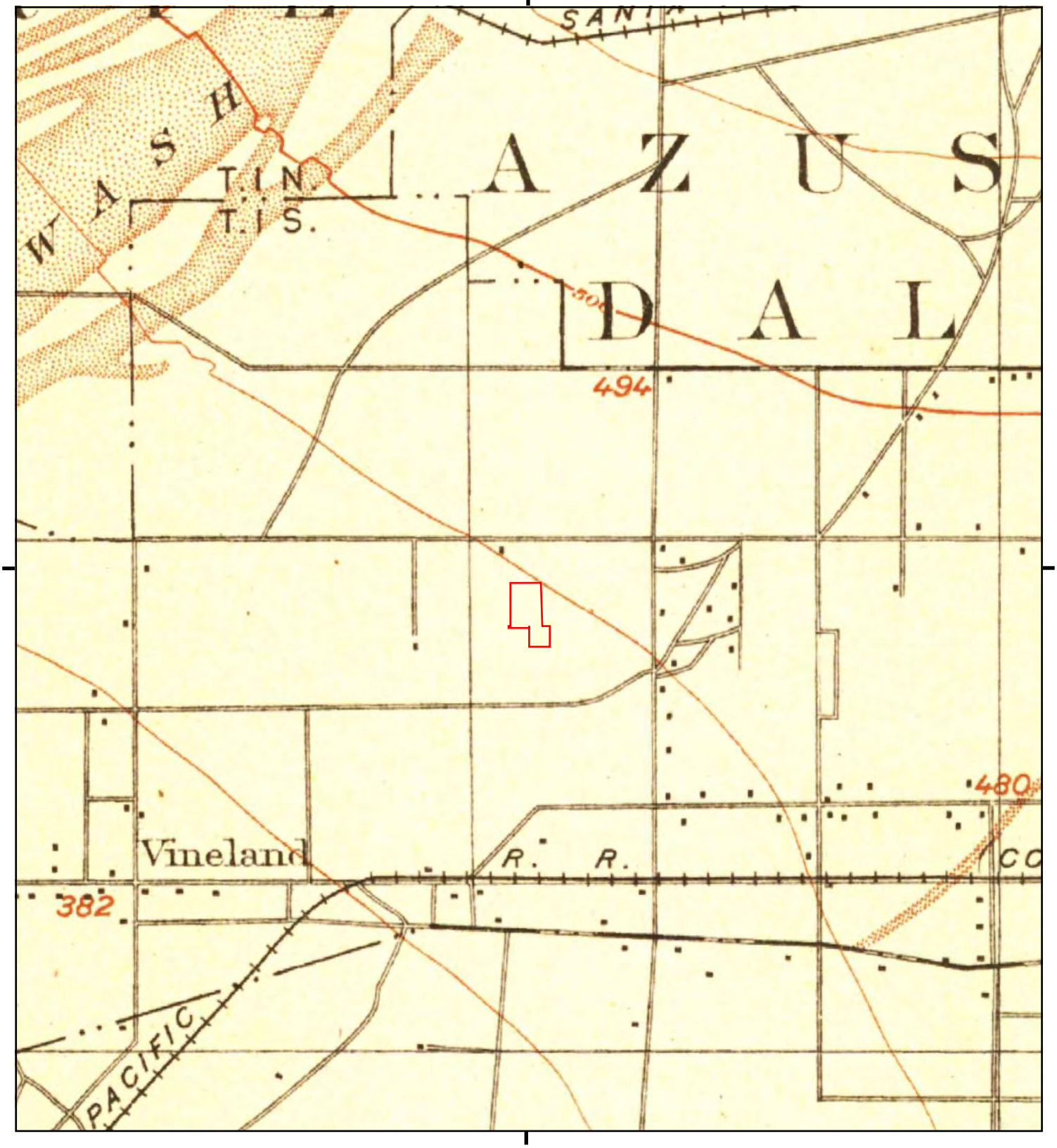
W E
SW S SE

TP, Azusa, 1925, 7.5-minute
S, Puente, 1927, 7.5-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



This report includes information from the following map sheet(s).

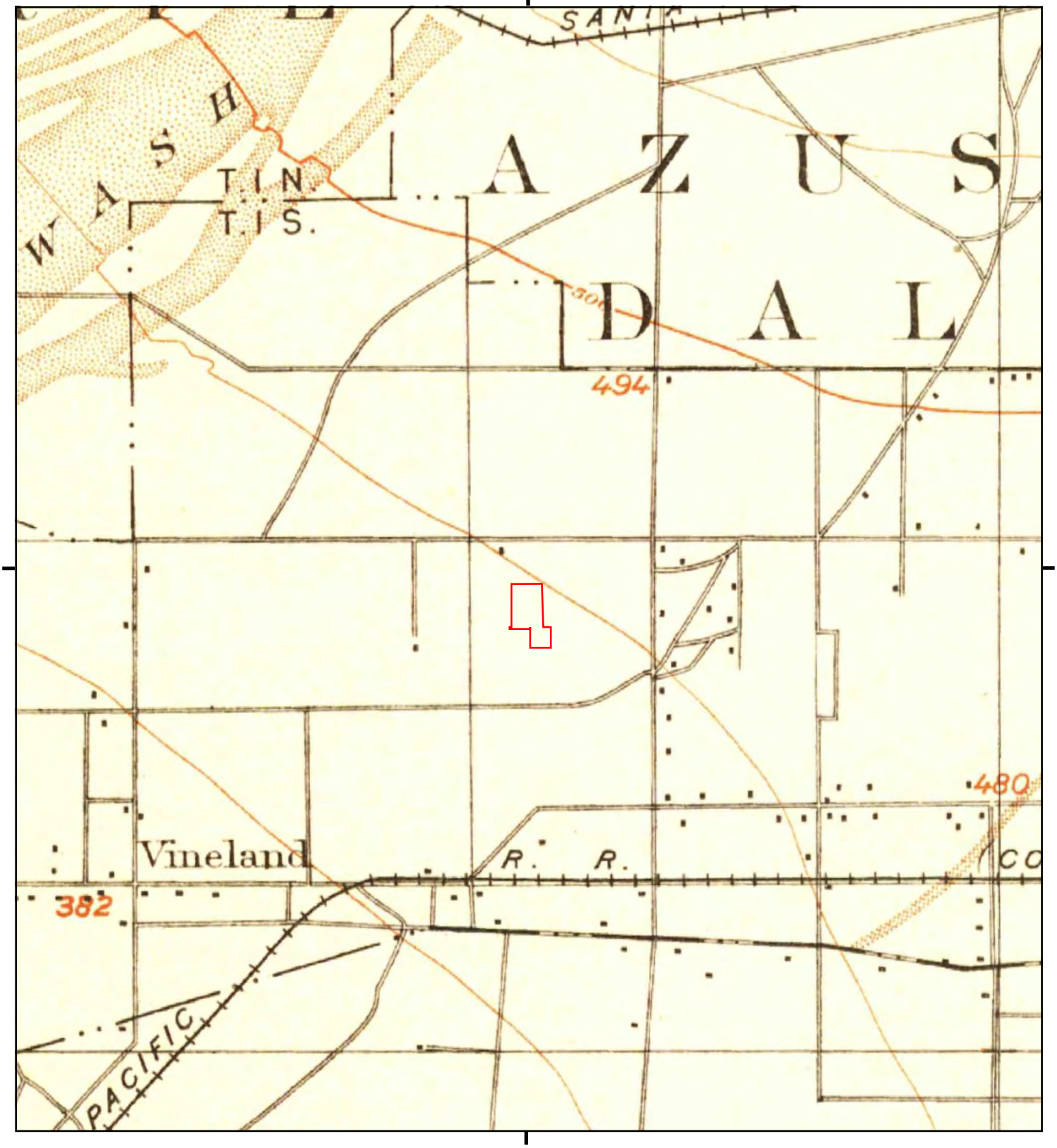
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pomona, 1904, 15-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



This report includes information from the following map sheet(s).

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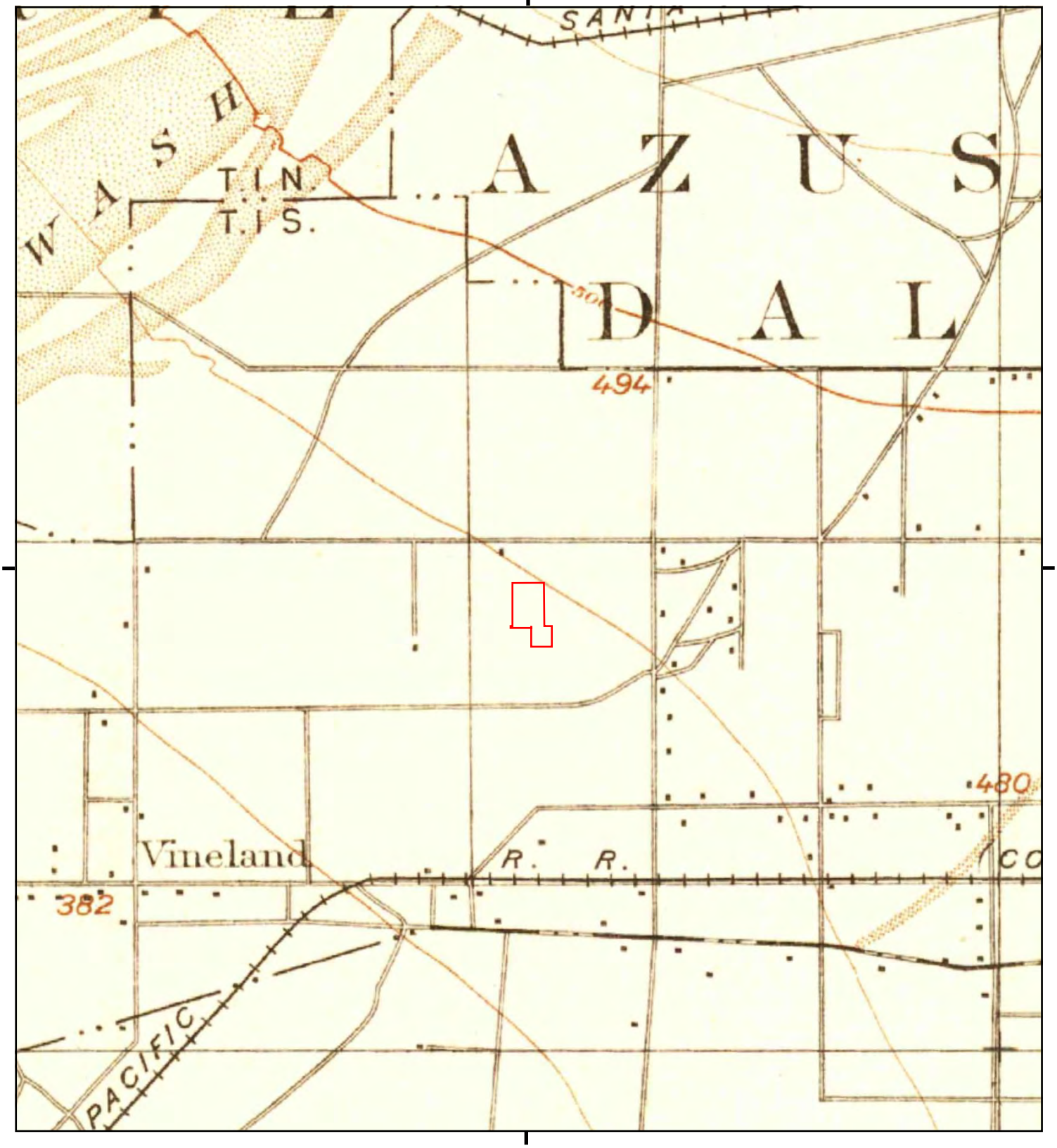
NW N NE
W E
SW S SE

TP, Pomona, 1898, 15-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



This report includes information from the following map sheet(s).

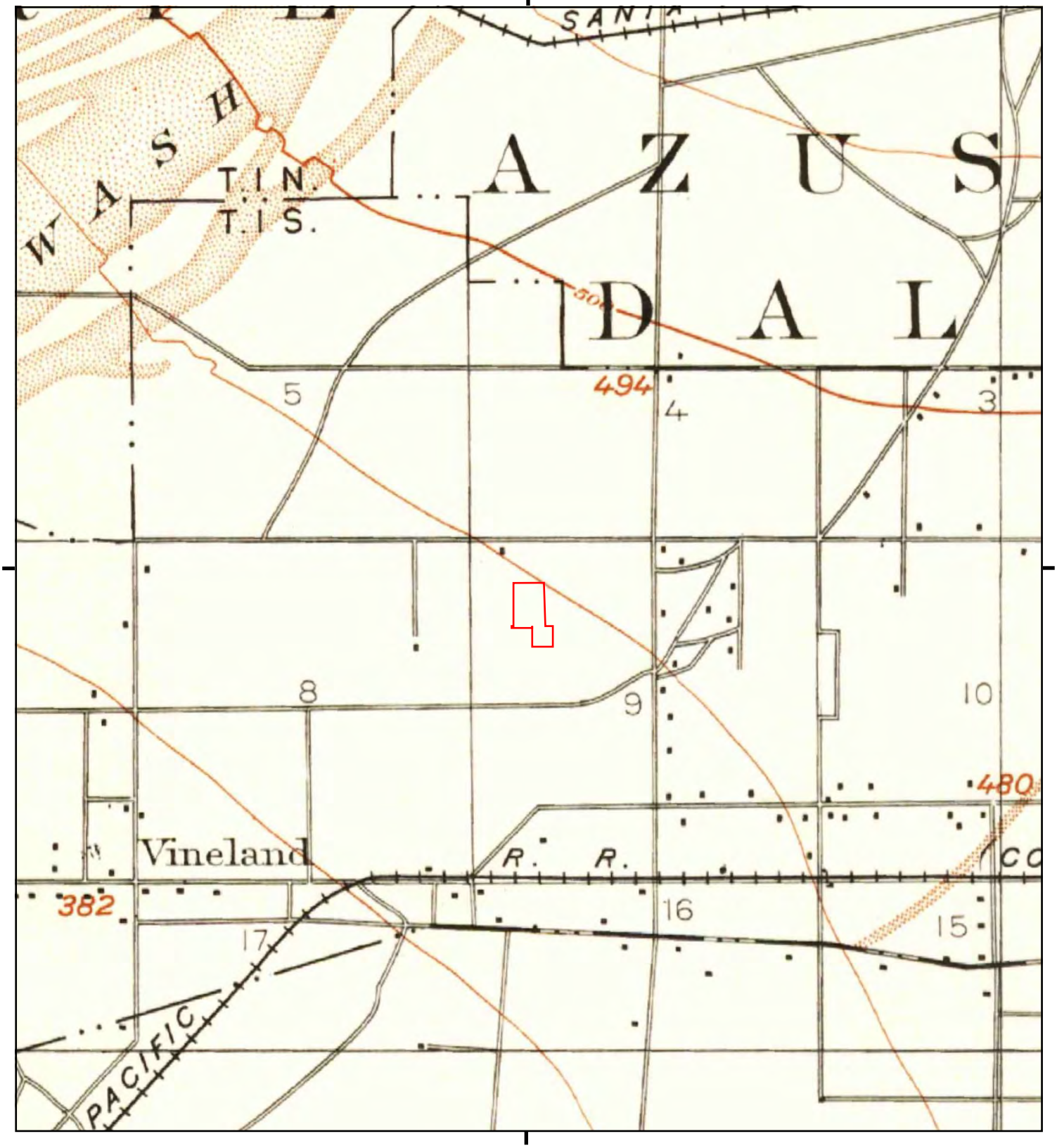
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pomona, 1897, 15-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pomona, 1894, 15-minute

SITE NAME: Frontier Irwindale
ADDRESS: 5010 Azusa Canyon Road
Baldwin Park, CA 91706
CLIENT: ATC Group Services LLC

N

APPENDIX E
ENVIRONMENTAL DATABASE REPORT

5010 Azusa Canyon Road
5010 Azusa Canyon Road
BALDWIN PARK, CA 91706

Inquiry Number: 4832331.2s
January 19, 2017

The EDR Radius Map™ Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

5010 AZUSA CANYON ROAD
BALDWIN PARK, CA 91706

COORDINATES

Latitude (North):	34.1042860 - 34° 6' 15.42''
Longitude (West):	117.9423560 - 117° 56' 32.48''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	413078.5
UTM Y (Meters):	3773925.2
Elevation:	449 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5619056 BALDWIN PARK, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140515
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
5010 AZUSA CANYON ROAD
BALDWIN PARK, CA 91706

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	GENERAL TELEPHONE CO	5010 AZUSA CANYON RD	LUST		TP
A2	VERIZON CALIFORNIA I	5010 AZUSA CANYON RO	FINDS, ECHO		TP
A3	VERIZON CALIFORNIA	5010 AZUSA CANYON RD	LOS ANGELES CO. HMS		TP
A4	GENERAL TELEPHONE CO	5010 AZUSA CYN RD.,	RGA LUST		TP
A5	GENERAL TELEPHONE CO	5010 AZUSA CANYON RD	RGA LUST		TP
A6	FRONTIER CALIFORNIA	5010 AZUSA CANYON RD	RCRA-SQG		TP
A7	GENERAL TELEPHONE CO	5010 AZUSA CANYON RD	HIST UST		TP
A8	FRONTIER CALIFORNIA	5010 AZUSA CANYON RD	LOS ANGELES CO. HMS		TP
A9	GTE CALIFORNIA	5010 AZUSA CANYON RD	UST		TP
A10	VERIZON CALIFORNIA	5010 AZUSA CANYON RD	LOS ANGELES CO. HMS		TP
A11	GENERAL TELEPHONE	5010 N AZUSA CANYON	SWEEPS UST, WIP		TP
A12	GTE CALIFORNIA INCOR	5010 N AZUSA CANYON	HIST UST, HAZNET		TP
A13	GENERAL TELEPHONE CO	5010 AZUSA CNYN	HIST CORTESE		TP
A14	VERIZON CA INC IRWIN	5010 AZUSA CANYON RD	HAZNET		TP
Reg	SAN GABRIEL VALLEY		AOCONCERN	Same	1 ft.
Reg	SAN GABRIEL VALLEY (	SUNSET & SAN BERNARD	NPL, SEMS, US ENG CONTROLS, ROD, PRP	Same	1 ft.
15	KARL BRYAN PLUMBING	5029 AZUSA CANYON RD	WIP	Higher	256, 0.048, West
16	FORD PRINTING & MAIL	5102 AZUSA CANYON RD	WIP	Higher	296, 0.056, NW
B17		4946 AZUSA CANYON R	EDR Hist Auto	Lower	472, 0.089, South
B18	D-L MACHINE SHOP	4946 AZUSA CANYON RD	WIP	Lower	472, 0.089, South
C19	PLASTECH TRANSPARENC	5108 AZUSA CANYON RD	WIP	Higher	485, 0.092, NNW
C20	IMPERIAL HORIZON	5116 AZUSA CANYON RD	WIP	Higher	485, 0.092, NNW
D21	ADVANCE MARINE & DEV	4954 AZUSA CANYON RD	WIP	Lower	525, 0.099, SSW
D22		4954 AZUSA CANYON R	EDR Hist Auto	Lower	525, 0.099, SSW
C23	SAM P. WALLACE COMPA	5115 AZUSA CANYON RD	HIST UST	Higher	554, 0.105, NNW
D24	ALBERT C. CLEGG & SO	4945 AZUSA CANYON RD	WIP	Lower	590, 0.112, SSW
D25	RODRIGUEZ TRUCKING,	4938 AZUSA CANYON RD	HIST UST, WIP	Lower	599, 0.113, SSW
D26	RODRIQUEZ TRUCKING	4938 AZUSA CANYON RD	LUST, LOS ANGELES CO. HMS	Lower	599, 0.113, SSW
27	ORECO DUCT SYSTEMS,	5119 AZUSA CANYON RD	WIP	Higher	677, 0.128, NNW
28	CALIFORNIA COMMUNITY	5091 004TH ST	AST	Lower	829, 0.157, East
E29	NELSON DESIGN & FABR	5143 AZUSA CANYON RD	WIP	Higher	846, 0.160, NNW
E30	J C CANVAS	5145 AZUSA CANYON RD	WIP	Higher	852, 0.161, NNW
E31	TOM CHATSUWAN STRETC	5145 AZUSA CANYON RD	WIP	Higher	852, 0.161, NNW
F32	CM2 COMPANY INC	4926 AZUSA CANYON	SWEEPS UST	Lower	854, 0.162, SSW
F33	MALCOLM DRILLING CO	4926 N AZUSA CANYON	RCRA-SQG, FINDS, EMI, LOS ANGELES CO. HMS, ECHO	Lower	854, 0.162, SSW
F34	MALCOLM DRILLING CO	4926 AZUSA CANYON RD	UST	Lower	854, 0.162, SSW
F35	CMZ COMPANY	4926 N AZUSA CANYON	LOS ANGELES CO. HMS, WIP	Lower	854, 0.162, SSW
E36	MITCH'S AUTO	5151 AZUSA CANYON RD	WIP	Higher	868, 0.164, NNW
E37	F. M. DIE	5153 AZUSA CANYON RD	WIP	Higher	874, 0.166, NNW

MAPPED SITES SUMMARY

Target Property Address:
5010 AZUSA CANYON ROAD
BALDWIN PARK, CA 91706

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
E38	C. O. X.	5155 AZUSA CANYON RD	WIP	Higher	879, 0.166, NNW
E39	TOMCO PRODUCTS	5157 AZUSA CANYON RD	WIP	Higher	885, 0.168, NNW
G40	LA CO FD FIRE STA #0	15546 ARROW HWY	SWEEPS UST, HIST UST, LOS ANGELES CO. HMS	Higher	890, 0.169, NNE
E41	NICKS CUSTOM WELDING	5163 AZUSA CANYON RD	WIP	Higher	901, 0.171, NNW
42	STUART TOOL SERVICE	15426 E ARROW HWY	WIP	Higher	903, 0.171, NNW
E43	OCCUPANT	5165 AZUSA CANYON RD	WIP	Higher	907, 0.172, NNW
E44	OCCUPANT	5167 AZUSA CANYON RD	WIP	Higher	912, 0.173, NNW
E45	CALIFORNIA BOWLING S	5169 AZUSA CANYON RD	WIP	Higher	918, 0.174, NNW
H46	HARPENG MATCH PLATE	4910 AZUSA CANYON RD	WIP	Lower	924, 0.175, South
H47	HARPENG MATCH PLATE	4910 AZUSA CANYON RD	WIP	Lower	924, 0.175, South
G48	FIRE STATION #48	15546 ARROW HWY	HIST UST	Higher	971, 0.184, NNE
I49	NO FRILLS TRUCKING I	15480 ARROW HWY	WIP	Higher	1009, 0.191, NNW
I50	GIANGREGORIO CONSTRU	15480 ARROW HWY	WIP	Higher	1009, 0.191, NNW
I51	NLE, INC.	15480 ARROW HWY	WIP	Higher	1009, 0.191, NNW
I52	NO FRILLS TRUCKING	15480 ARROW HWY	WIP	Higher	1009, 0.191, NNW
I53	ELEKTRA IND SUPPLY I	15480 ARROW HWY	WIP	Higher	1009, 0.191, NNW
I54	DBEV ENVIRONMENTAL S	15480 ARROW HWY STE	RCRA NonGen / NLR, FINDS, ECHO	Higher	1009, 0.191, NNW
I55	OCCUPANT	15472 E ARROW HWY	WIP	Higher	1022, 0.194, NNW
J56	A-ARTISTIC PRINTING	15558 ARROW HWY	WIP	Higher	1024, 0.194, NNE
J57	A. J. BREWER SPECILI	15558 ARROW HWY	WIP	Higher	1024, 0.194, NNE
J58	CHEZ CARRIE CATERING	15556 ARROW HWY	WIP	Higher	1024, 0.194, NNE
J59	SAAVEDRA WOOD PROD &	15560 ARROW HWY	WIP	Higher	1024, 0.194, NNE
J60	PLASTECH	15558 ARROW HWY	WIP	Higher	1024, 0.194, NNE
J61	PLASTECH TRANSPARENC	15554 E ARROW HWY	WIP	Higher	1024, 0.194, NNE
J62	JENDEN WEST	15556 ARROW HWY	WIP	Higher	1024, 0.194, NNE
J63	CARTER'S METAL FABRI	15560 ARROW HWY	WIP	Higher	1024, 0.194, NNE
I64	ACELCO	15470 ARROW HWY	RCRA-SQG, FINDS, ECHO	Higher	1026, 0.194, NNW
I65	OCCUPANT	15470 E ARROW HWY	WIP	Higher	1026, 0.194, NNW
I66	OCCUPANT	15468 E ARROW HWY	WIP	Higher	1029, 0.195, NNW
I67	WARSAW ENGINEERING,	15468 ARROW HWY	WIP	Higher	1029, 0.195, NNW
I68	STUART'S TOOL SERVIC	15464 ARROW HWY	WIP	Higher	1037, 0.196, NNW
I69	THE 3 AMINGOS TIRE S	15460 E ARROW HWY	WIP	Higher	1045, 0.198, NNW
I70	ZOLA JOHN C LABORATO	15460 ARROW HWY	RCRA-SQG, FINDS, ECHO	Higher	1045, 0.198, NNW
K71	JASCO WOOD PRODUCTS	15519 ARROW HWY.	SLIC, EMI, WIP	Higher	1057, 0.200, North
L72	ARROW PIPE & SUPPLY	15563 ARROW HWY	SWEEPS UST, HIST UST, LOS ANGELES CO. HMS	Higher	1061, 0.201, North
K73	DIA-CHROME INC.	15509 ARROW HWY	WIP	Higher	1064, 0.202, North
K74	HARRY HILL IMPORTS	15507 ARROW HWY	RCRA-SQG, FINDS, ECHO	Higher	1066, 0.202, North
K75	HARRY HILL VOLKSWAGE	15507 ARROW HWY	WIP	Higher	1066, 0.202, North
M76	U.S. RENTALS	15402 ARROW HWY E	LUST, HIST CORTESE	Higher	1071, 0.203, NW

MAPPED SITES SUMMARY

Target Property Address:
5010 AZUSA CANYON ROAD
BALDWIN PARK, CA 91706

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
M77	ARROW EQUIP RENTAL	15402 ARROW HWY	SWEEPS UST, CA FID UST	Higher	1071, 0.203, NW
M78	US RENTALS INC	15402 ARROW HWY	UST	Higher	1071, 0.203, NW
M79	ARROW EQUIPMENT RENT	15402 ARROW HWY	HIST UST	Higher	1071, 0.203, NW
M80	U S RENTALS 51	15402 E ARROW HWY	RCRA NonGen / NLR, FINDS, ECHO	Higher	1071, 0.203, NW
M81	U S RENTALS	15402 E ARROW HWY	LOS ANGELES CO. HMS, WIP	Higher	1071, 0.203, NW
M82	ARROW EQUIPHENT RENT	15402 ARROW HWY	HIST UST, HAZNET	Higher	1071, 0.203, NW
83	UTILITY DISPOSAL COM	4854 AZUSA CANYON RD	WIP	Lower	1074, 0.203, South
N84	KENT'S BODY WKS, KEN	15444 E ARROW HWY	EMI, WIP	Higher	1084, 0.205, NNW
N85	KENTS BODY WORKS	15444 ARROW HWY	RCRA-SQG, FINDS, ECHO	Higher	1084, 0.205, NNW
N86	TOMCO	15438 ARROW HWY	WIP	Higher	1098, 0.208, NNW
N87	TOMCO PRODUCTS	15438 ARROW HWY	WIP	Higher	1098, 0.208, NNW
N88	CHAPMAN APPLIANCE WA	15406 ARROW HWY	WIP	Higher	1100, 0.208, NNW
N89	KNUDTSON REFINISHING	15434 ARROW HWY	FINDS, EMI, WIP	Higher	1108, 0.210, NNW
N90	OCCUPANT	15434 ARROW HWY	WIP	Higher	1108, 0.210, NNW
N91	J. D. PRECISION	15430 ARROW HWY	WIP	Higher	1118, 0.212, NNW
N92	P & M AUTOMOTIVE	15428 ARROW HWY	WIP	Higher	1124, 0.213, NNW
93	GLENDORA TREE SURGER	5040 LANTE ST	WIP	Lower	1124, 0.213, West
94	NATIONAL COOLER CORP	5018 LANTE ST	WIP	Lower	1130, 0.214, West
95	ACTIVE AIRCRAFT WELD	4848 AZUSA CANYON RD	WIP	Lower	1138, 0.216, SSE
O96	SORENSEN BACKHOE	5052 LANTE ST	WIP	Higher	1144, 0.217, WNW
J97	ARROW PIPE AND STEEL	15563 ARROW HWY	HIST UST, NPDES, WIP	Higher	1149, 0.218, NNE
P98	PHILIPS/LAU INDUSTRI	15601 ARROW HWY	SWEEPS UST, HIST UST, EMI, LOS ANGELES CO. HMS	Higher	1158, 0.219, NNE
L99	CHASE TIRE SERVICE	15545 E ARROW HWY	LOS ANGELES CO. HMS, WIP	Higher	1173, 0.222, North
P100	CARBIDE DIE & MGF. C	15615 E ARROW HWY	WIP	Higher	1249, 0.237, NNE
101	RAINBOW ELECTRIC	5049 LANTE ST	WIP	Lower	1262, 0.239, West
O102	MARGETT BROS, INC.	5057 LANTE ST	WIP	Higher	1273, 0.241, West
103	J & B CEMENT CONTRAC	4938 LANTE ST	WIP	Lower	1273, 0.241, WSW
104	CUSTOM WOODWORKS	5103 LANTE ST	WIP	Higher	1299, 0.246, WNW
105	MC CARON STEEL FABRI	5140 N LANTE ST	LOS ANGELES CO. HMS, WIP	Higher	1299, 0.246, WNW
106	XTREME AUTO COLLISIO	15629 ARROW HWY	HAZNET, WIP	Higher	1303, 0.247, NE
Q107	QUALITY ENGINE CENTE	15253 NUBIA ST	WIP	Lower	1308, 0.248, WSW
108	GENCO REBUILT PRODUC	15320 E ARROW HWY	WIP	Higher	1315, 0.249, NW
Q109	GEX INTERNATIONAL CO	15247 NUBIA ST	WIP	Lower	1318, 0.250, WSW
110	ATASCADERO YARD	15627 ARROW	HIST CORTESE	Higher	1448, 0.274, NNE
R111	NONE	15744 ARROW HIGHWAY	HIST UST, HIST CORTESE, WIP	Higher	1714, 0.325, ENE
R112	SHANNON CASKET CO	15744 ARROW HWY E	LUST	Higher	1714, 0.325, ENE
S113	L & M METAL PRODUCTS	5108 CALMVIEW AVE	SLIC, WIP	Lower	1726, 0.327, WNW
S114	ARROW PARKING	5065 CALMVIEW AVE	LUST, HIST CORTESE, WIP	Lower	1755, 0.332, West
115	SPECIALTY ORGANICS I	5263 N FOURTH ST	SEMS-ARCHIVE, RCRA-SQG, LUST, HIST UST, HIST...	Higher	1980, 0.375, NE

MAPPED SITES SUMMARY

Target Property Address:
5010 AZUSA CANYON ROAD
BALDWIN PARK, CA 91706

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
T116	IRWINDALE SHOP	4702 AZUSA CANYON RD	LUST, SWEEPS UST, HIST UST, WDS, WIP	Lower	2076, 0.393, South
T117	WESTERN ENVIRONMENTA	4702 AZUSA CANYON RO	ABANDONED MINES	Lower	2076, 0.393, South
118	BIOSENSE WEBSTER INC	15715 ARROW HWY	RCRA-LQG, SLIC, NPDES	Higher	2123, 0.402, ENE
119	AMERICAN CAPACITOR C	5367 THIRD ST	SLIC, WIP	Higher	2339, 0.443, NE
120	DAVIS WIRE CORP	5555 IRWINDALE AVE	RCRA-LQG, ENVIROSTOR, LUST, ICIS, US AIRS, HIST...	Higher	3443, 0.652, NNE
121	AMERICAN PHARMASEAL	4401 FOXDALE AVE	SEMS, RCRA-SQG, ENVIROSTOR, HIST UST, FINDS,...	Lower	3963, 0.751, SSE
122	KEMAC TECHNOLOGY INC	5462 N. IRWINDALE	RCRA-SQG, ENVIROSTOR, EMI, LOS ANGELES CO. HMS,...	Higher	4211, 0.798, NE
U123	NORAC PHARMA (S&B PH	405 S MOTOR AVE	ENVIROSTOR, SLIC, SWEEPS UST, HIST UST, HWP,...	Higher	4873, 0.923, NNE
U124	NORAC PHARMA	405 SOUTH MOTOR AVEN	CORRACTS, RCRA-TSDF, RCRA-LQG, TRIS	Higher	4873, 0.923, NNE
125	CONCORDE/INTERSPACE	2009 SAN BERNADINO R	ENVIROSTOR	Lower	5125, 0.971, South
126	BROTHERS PLATING	334 S MOTOR AVE	ENVIROSTOR, HIST UST, EMI, WIP	Higher	5149, 0.975, NNE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
GENERAL TELEPHONE CO 5010 AZUSA CANYON RD IRWINDALE, CA 91706	LUST Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 11/01/2016 Status: Completed - Case Closed Facility Id: R-03882 Status: Case Closed Global Id: T0603704631 Global ID: T0603704631	N/A
VERIZON CALIFORNIA I 5010 AZUSA CANYON RO IRWINDALE, CA 91706	FINDS Registry ID:: 110012216208 ECHO	N/A
VERIZON CALIFORNIA 5010 AZUSA CANYON RD IRWINDALE, CA 91706	LOS ANGELES CO. HMS Facility ID: 003755-I03882	N/A
GENERAL TELEPHONE CO 5010 AZUSA CYN RD., IRWINDALE, CA	RGA LUST	N/A
GENERAL TELEPHONE CO 5010 AZUSA CANYON RD IRWINDALE, CA	RGA LUST	N/A
FRONTIER CALIFORNIA 5010 AZUSA CANYON RD IRWINDALE, CA 91706	RCRA-SQG EPA ID:: CAR000084251	CAR000084251
GENERAL TELEPHONE CO 5010 AZUSA CANYON RD IRWINDALE, CA 91706	HIST UST Facility Id: 00000003723	N/A
FRONTIER CALIFORNIA 5010 AZUSA CANYON RD IRWINDALE, CA 91706	LOS ANGELES CO. HMS Facility ID: 003755-061982	N/A
GTE CALIFORNIA 5010 AZUSA CANYON RD BALDWIN PARK, CA 91706	UST Database: UST, Date of Government Version: 09/12/2016	N/A

Facility Id: 3882

VERIZON CALIFORNIA 5010 AZUSA CANYON RD IRWINDALE, CA 91706	LOS ANGELES CO. HMS Facility ID: 003755-003882	N/A
GENERAL TELEPHONE 5010 N AZUSA CANYON IRWINDALE, CA 91706	SWEEPS UST Status: A Tank Status: A Comp Number: 3882 WIP Facility Status: Historical	N/A
GTE CALIFORNIA INCOR 5010 N AZUSA CANYON IRWINDALE, CA 91708	HIST UST HAZNET GEPAID: CAD981394174	N/A
GENERAL TELEPHONE CO 5010 AZUSA CNYN IRWINDALE, CA 91706	HIST CORTESE Reg Id: R-03882	N/A
VERIZON CA INC IRWIN 5010 AZUSA CANYON RD IRWINDALE, CA 91706	HAZNET GEPAID: CAR000084251	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

EXECUTIVE SUMMARY

Federal CERCLIS list

FEDERAL FACILITY---------- Federal Facility Site Information listing

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG---------- RCRA - Large Quantity Generators
RCRA-CESQG---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS---------- Land Use Control Information System
US INST CONTROL---------- Sites with Institutional Controls

Federal ERNS list

ERNS---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE---------- State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF---------- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST---------- Underground Storage Tank Listing
INDIAN UST---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP---------- Voluntary Cleanup Program Properties
INDIAN VCP---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS---------- A Listing of Brownfields Sites

EXECUTIVE SUMMARY

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler Database
HAULERS	Registered Waste Tire Haulers Listing
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
ODI	Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
HIST Cal-Sites	Historical Calsites Database
SCH	School Property Evaluation Program
CDL	Clandestine Drug Labs
Toxic Pits	Toxic Pits Cleanup Act Sites
US CDL	National Clandestine Laboratory Register

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER - PCB Transformer Registration Database
RADINFO - Radiation Information Database
HIST FTTS - FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS - Incident and Accident Data
CONSENT - Superfund (CERCLA) Consent Decrees
INDIAN RESERV - Indian Reservations
FUSRAP - Formerly Utilized Sites Remedial Action Program
UMTRA - Uranium Mill Tailings Sites
LEAD SMELTERS - Lead Smelter Sites
US AIRS - Aerometric Information Retrieval System Facility Subsystem
US MINES - Mines Master Index File
UXO - Unexploded Ordnance Sites
DOCKET HWC - Hazardous Waste Compliance Docket Listing
CA BOND EXP. PLAN - Bond Expenditure Plan
Cortese - "Cortese" Hazardous Waste & Substances Sites List
CUPA Listings - CUPA Resources List
DRYCLEANERS - Cleaner Facilities
EMI - Emissions Inventory Data
ENF - Enforcement Action Listing
Financial Assurance - Financial Assurance Information Listing
HWT - Registered Hazardous Waste Transporter Database
MINES - Mines Site Location Listing
MWMP - Medical Waste Management Program Listing
NPDES - NPDES Permits Listing
PEST LIC - Pesticide Regulation Licenses Listing
PROC - Certified Processors Database
Notify 65 - Proposition 65 Records
LA Co. Site Mitigation - Site Mitigation List
UIC - UIC Listing
WASTEWATER PITS - Oil Wastewater Pits Listing
WDS - Waste Discharge System
FUELS PROGRAM - EPA Fuels Program Registered Listing
ICE - ICE

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP - EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner - EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF - Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 08/05/2016 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN GABRIEL VALLEY (	*SUNSET & SAN BERNARD*	*0 - 1/8 (0.000 mi.)*	*0*	*21*

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 10/10/2016 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN GABRIEL VALLEY (	*SUNSET & SAN BERNARD*	*0 - 1/8 (0.000 mi.)*	*0*	*21*

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 10/10/2016 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SPECIALTY ORGANICS I	*5263 N FOURTH ST*	*NE 1/4 - 1/2 (0.375 mi.)*	*115*	*112*

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 09/12/2016 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORAC PHARMA	*405 SOUTH MOTOR AVEN*	*NNE 1/2 - 1 (0.923 mi.)*	*U124*	*221*

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 09/12/2016 has revealed that there are 5 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ACELCO	*15470 ARROW HWY*	*NNW 1/8 - 1/4 (0.194 mi.)*	*I64*	*68*
ZOLA JOHN C LABORATO	*15460 ARROW HWY*	*NNW 1/8 - 1/4 (0.198 mi.)*	*I70*	*70*
HARRY HILL IMPORTS	*15507 ARROW HWY*	*N 1/8 - 1/4 (0.202 mi.)*	*K74*	*75*
KENTS BODY WORKS	*15444 ARROW HWY*	*NNW 1/8 - 1/4 (0.205 mi.)*	*N85*	*89*

Lower Elevation	Address	Direction / Distance	Map ID	Page
MALCOLM DRILLING CO	*4926 N AZUSA CANYON*	*SSW 1/8 - 1/4 (0.162 mi.)*	*F33*	*55*

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 05/09/2016 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN GABRIEL VALLEY (	*SUNSET & SAN BERNARD*	*0 - 1/8 (0.000 mi.)*	*0*	*21*

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/31/2016 has revealed that there are 6 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DAVIS WIRE CORP Facility Id: 71002657 Status: Refer: Other Agency	***5555 IRWINDALE AVE***	***NNE 1/2 - 1 (0.652 mi.)***	***120***	***136***
KEMAC TECHNOLOGY INC Facility Id: 71002929 Status: Refer: Other Agency	***5462 N. IRWINDALE***	***NE 1/2 - 1 (0.798 mi.)***	***122***	***202***
NORAC PHARMA (S&B PH Facility Id: 80001568 Status: Active	***405 S MOTOR AVE***	***NNE 1/2 - 1 (0.923 mi.)***	***U123***	***209***
BROTHERS PLATING Facility Id: 71003297 Status: Refer: Other Agency	***334 S MOTOR AVE***	***NNE 1/2 - 1 (0.975 mi.)***	***126***	***257***

Lower Elevation	Address	Direction / Distance	Map ID	Page
AMERICAN PHARMASEAL Facility Id: 19380055 Status: Refer: RWQCB	***4401 FOXDALE AVE***	***SSE 1/2 - 1 (0.751 mi.)***	***121***	***192***
CONCORDE/INTERSPACE Facility Id: 71002894 Status: Refer: Other Agency	2009 SAN BERNADINO R	S 1/2 - 1 (0.971 mi.)	125	256

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 6 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
U.S. RENTALS Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 11/01/2016	***15402 ARROW HWY E***	***NW 1/8 - 1/4 (0.203 mi.)***	***M76***	***77***

Status: Open - Site Assessment
Status: Completed - Case Closed
Facility Id: I-11270
Status: Case Closed
Global Id: T0603792260
Global Id: T0603703774
Global ID: T0603703774

SHANNON CASKET CO | 15744 ARROW HWY E | ENE 1/4 - 1/2 (0.325 mi.) | R112 | 107
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Facility Id: R-04831
Status: Case Closed
Global Id: T0603704656
Global ID: T0603704656

SPECIALTY ORGANICS I | ***5263 N FOURTH ST*** | ***NE 1/4 - 1/2 (0.375 mi.)*** | ***115*** | ***112***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Facility Id: I-08370
Status: Preliminary site assessment underway
Global Id: T0603703325
Global ID: T0603703325

Lower Elevation	Address	Direction / Distance	Map ID	Page

RODRIQUEZ TRUCKING | ***4938 AZUSA CANYON RD*** | ***SSW 0 - 1/8 (0.113 mi.)*** | ***D26*** | ***51***
Database: LUST, Date of Government Version: 11/01/2016
Status: Open - Site Assessment
Global Id: T10000000418

ARROW PARKING | ***5065 CALMVIEW AVE*** | ***W 1/4 - 1/2 (0.332 mi.)*** | ***S114*** | ***110***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Facility Id: R-15598
Status: Case Closed
Global Id: T0603705254
Global ID: T0603705254

IRWINDALE SHOP | ***4702 AZUSA CANYON RD*** | ***S 1/4 - 1/2 (0.393 mi.)*** | ***T116*** | ***123***
Database: LUST, Date of Government Version: 11/01/2016
Status: Completed - Case Closed
Global Id: T0603762683

SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the SLIC list, as provided by EDR, has revealed that there are 4 SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page

JASCO WOOD PRODUCTS | ***15519 ARROW HWY.*** | ***N 1/8 - 1/4 (0.200 mi.)*** | ***K71*** | ***72***
Database: SLIC, Date of Government Version: 09/12/2016

Facility Status: Open - Inactive
Global Id: SL603798879

BIOSENSE WEBSTER INC	***15715 ARROW HWY***	***ENE 1/4 - 1/2 (0.402 mi.)***	***118***	***128***

Database: SLIC, Date of Government Version: 09/12/2016
Facility Status: Open - Inactive
Global Id: SL603798877

AMERICAN CAPACITOR C	***5367 THIRD ST***	***NE 1/4 - 1/2 (0.443 mi.)***	***119***	***135***

Database: SLIC, Date of Government Version: 09/12/2016
Facility Status: Open - Inactive
Global Id: SL603798884

Lower Elevation	Address	Direction / Distance	Map ID	Page
L & M METAL PRODUCTS	***5108 CALMVIEW AVE***	***WNW 1/4 - 1/2 (0.327 mi.)***	***S113***	***109***

Database: SLIC, Date of Government Version: 09/12/2016
Facility Status: Completed - Case Closed
Global Id: SL603798909

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
US RENTALS INC	15402 ARROW HWY	NW 1/8 - 1/4 (0.203 mi.)	M78	83

Database: UST, Date of Government Version: 09/12/2016
Facility Id: 11270

Lower Elevation	Address	Direction / Distance	Map ID	Page
MALCOLM DRILLING CO	4926 AZUSA CANYON RD	SSW 1/8 - 1/4 (0.162 mi.)	F34	57

Database: UST, Date of Government Version: 09/12/2016
Facility Id: 26668

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, and dated 07/06/2016 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA COMMUNITY	5091 004TH ST	E 1/8 - 1/4 (0.157 mi.)	28	53

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN: San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

A review of the AOCONCERN list, as provided by EDR, and dated 03/30/2009 has revealed that there is 1 AOCONCERN site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN GABRIEL VALLEY		0 - 1/8 (0.000 mi.)	0	21

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 5 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LA CO FD FIRE STA #0 Status: A Tank Status: A Comp Number: 12516	***15546 ARROW HWY***	***NNE 1/8 - 1/4 (0.169 mi.)***	***G40***	***59***
ARROW PIPE & SUPPLY Status: A Comp Number: 11457	***15563 ARROW HWY***	***N 1/8 - 1/4 (0.201 mi.)***	***L72***	***74***
ARROW EQUIP RENTAL Status: A Tank Status: A Comp Number: 11270	***15402 ARROW HWY***	***NW 1/8 - 1/4 (0.203 mi.)***	***M77***	***81***
PHILIPS/LAU INDUSTRI Status: A Comp Number: 3611	***15601 ARROW HWY***	***NNE 1/8 - 1/4 (0.219 mi.)***	***P98***	***101***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CM2 COMPANY INC Status: A Tank Status: A Comp Number: 15819	4926 AZUSA CANYON	SSW 1/8 - 1/4 (0.162 mi.)	F32	54

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 9 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAM P. WALLACE COMPA Facility Id: 00000050882	5115 AZUSA CANYON RD	NNW 0 - 1/8 (0.105 mi.)	C23	49
LA CO FD FIRE STA #0 FIRE STATION #48 Facility Id: 00000034222	***15546 ARROW HWY*** 15546 ARROW HWY	***NNE 1/8 - 1/4 (0.169 mi.)*** NNE 1/8 - 1/4 (0.184 mi.)	***G40*** G48	***59*** 62
ARROW PIPE & SUPPLY ARROW EQUIPMENT RENT Facility Id: 00000004886	***15563 ARROW HWY*** 15402 ARROW HWY	***N 1/8 - 1/4 (0.201 mi.)*** NW 1/8 - 1/4 (0.203 mi.)	***L72*** M79	***74*** 83
ARROW EQUIPHENT RENT ***ARROW PIPE AND STEEL*** Facility Id: 00000065804	***15402 ARROW HWY*** ***15563 ARROW HWY***	***NW 1/8 - 1/4 (0.203 mi.)*** ***NNE 1/8 - 1/4 (0.218 mi.)***	***M82*** ***J97***	***86*** ***99***
PHILIPS/LAU INDUSTRI	***15601 ARROW HWY***	***NNE 1/8 - 1/4 (0.219 mi.)***	***P98***	***101***

Lower Elevation	Address	Direction / Distance	Map ID	Page
RODRIGUEZ TRUCKING, Facility Id: 00000002978	***4938 AZUSA CANYON RD***	***SSW 0 - 1/8 (0.113 mi.)***	***D25***	***50***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARROW EQUIP RENTAL Facility Id: 19001861 Status: A	***15402 ARROW HWY***	***NW 1/8 - 1/4 (0.203 mi.)***	***M77***	***81***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/12/2016 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DBEV ENVIRONMENTAL S	***15480 ARROW HWY STE***	***NNW 1/8 - 1/4 (0.191 mi.)***	***I54***	***64***
U S RENTALS 51	***15402 E ARROW HWY***	***NW 1/8 - 1/4 (0.203 mi.)***	***M80***	***84***

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 11/25/2013 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN GABRIEL VALLEY (	***SUNSET & SAN BERNARD***	***0 - 1/8 (0.000 mi.)***	***0***	***21***

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 5 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
U.S. RENTALS Reg Id: I-11270	***15402 ARROW HWY E***	***NW 1/8 - 1/4 (0.203 mi.)***	***M76***	***77***
ATASCADERO YARD Reg Id: 2399	15627 ARROW	NNE 1/4 - 1/2 (0.274 mi.)	110	106
NONE Reg Id: R-04831	***15744 ARROW HIGHWAY***	***ENE 1/4 - 1/2 (0.325 mi.)***	***R111***	***106***
SPECIALTY ORGANICS I Reg Id: I-08370	***5263 N FOURTH ST***	***NE 1/4 - 1/2 (0.375 mi.)***	***115***	***112***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ARROW PARKING Reg Id: R-15598	***5065 CALMVIEW AVE***	***W 1/4 - 1/2 (0.332 mi.)***	***S114***	***110***

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 08/22/2016 has revealed that there is 1 HWP site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NORAC PHARMA (S&B PH EPA Id: CAD008352957 Cleanup Status: UNDERGOING CLOSURE	***405 S MOTOR AVE***	***NNE 1/2 - 1 (0.923 mi.)***	***U123***	***209***

WIP: Well Investigation Program case in the San Gabriel and San Fernando Valley area.

A review of the WIP list, as provided by EDR, and dated 07/03/2009 has revealed that there are 72 WIP sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KARL BRYAN PLUMBING	5029 AZUSA CANYON RD	W 0 - 1/8 (0.048 mi.)	15	46

Facility Status: Historical				
FORD PRINTING & MAIL	5102 AZUSA CANYON RD	NW 0 - 1/8 (0.056 mi.)	16	46
Facility Status: Historical				
PLASTECH TRANSPARENC	5108 AZUSA CANYON RD	NNW 0 - 1/8 (0.092 mi.)	C19	47
Facility Status: Historical				
IMPERIAL HORIZON	5116 AZUSA CANYON RD	NNW 0 - 1/8 (0.092 mi.)	C20	48
ORECO DUCT SYSTEMS,	5119 AZUSA CANYON RD	NNW 1/8 - 1/4 (0.128 mi.)	27	53
Facility Status: Historical				
NELSON DESIGN & FABR	5143 AZUSA CANYON RD	NNW 1/8 - 1/4 (0.160 mi.)	E29	54
Facility Status: Historical				
J C CANVAS	5145 AZUSA CANYON RD	NNW 1/8 - 1/4 (0.161 mi.)	E30	54
Facility Status: Historical				
TOM CHATSUWAN STRETC	5145 AZUSA CANYON RD	NNW 1/8 - 1/4 (0.161 mi.)	E31	54
Facility Status: Historical				
MITCH'S AUTO	5151 AZUSA CANYON RD	NNW 1/8 - 1/4 (0.164 mi.)	E36	58
Facility Status: Historical				
F. M. DIE	5153 AZUSA CANYON RD	NNW 1/8 - 1/4 (0.166 mi.)	E37	59
Facility Status: Historical				
C. O. X.	5155 AZUSA CANYON RD	NNW 1/8 - 1/4 (0.166 mi.)	E38	59
TOMCO PRODUCTS	5157 AZUSA CANYON RD	NNW 1/8 - 1/4 (0.168 mi.)	E39	59
Facility Status: Historical				
NICKS CUSTOM WELDING	5163 AZUSA CANYON RD	NNW 1/8 - 1/4 (0.171 mi.)	E41	60
STUART TOOL SERVICE	15426 E ARROW HWY	NNW 1/8 - 1/4 (0.171 mi.)	42	61
Facility Status: Historical				
OCCUPANT	5165 AZUSA CANYON RD	NNW 1/8 - 1/4 (0.172 mi.)	E43	61
OCCUPANT	5167 AZUSA CANYON RD	NNW 1/8 - 1/4 (0.173 mi.)	E44	61
CALIFORNIA BOWLING S	5169 AZUSA CANYON RD	NNW 1/8 - 1/4 (0.174 mi.)	E45	61
Facility Status: Historical				
NO FRILLS TRUCKING I	15480 ARROW HWY	NNW 1/8 - 1/4 (0.191 mi.)	I49	63
Facility Status: Historical				
GIANGREGORIO CONSTRU	15480 ARROW HWY	NNW 1/8 - 1/4 (0.191 mi.)	I50	63
NLE, INC.	15480 ARROW HWY	NNW 1/8 - 1/4 (0.191 mi.)	I51	63
Facility Status: Historical				
NO FRILLS TRUCKING	15480 ARROW HWY	NNW 1/8 - 1/4 (0.191 mi.)	I52	63
Facility Status: Historical				
ELEKTRA IND SUPPLY I	15480 ARROW HWY	NNW 1/8 - 1/4 (0.191 mi.)	I53	64
OCCUPANT	15472 E ARROW HWY	NNW 1/8 - 1/4 (0.194 mi.)	I55	65
A-ARTISTIC PRINTING	15558 ARROW HWY	NNE 1/8 - 1/4 (0.194 mi.)	J56	66
Facility Status: Historical				
A. J. BREWER SPECILI	15558 ARROW HWY	NNE 1/8 - 1/4 (0.194 mi.)	J57	66
Facility Status: Historical				
CHEZ CARRIE CATERING	15556 ARROW HWY	NNE 1/8 - 1/4 (0.194 mi.)	J58	66
Facility Status: Historical				
SAAVEDRA WOOD PROD &	15560 ARROW HWY	NNE 1/8 - 1/4 (0.194 mi.)	J59	66
PLASTECH	15558 ARROW HWY	NNE 1/8 - 1/4 (0.194 mi.)	J60	67
Facility Status: Historical				
PLASTECH TRANSPARENC	15554 E ARROW HWY	NNE 1/8 - 1/4 (0.194 mi.)	J61	67
Facility Status: Historical				
JENDEN WEST	15556 ARROW HWY	NNE 1/8 - 1/4 (0.194 mi.)	J62	67

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CARTER'S METAL FABRI Facility Status: Historical	15560 ARROW HWY	NNE 1/8 - 1/4 (0.194 mi.)	J63	67
OCCUPANT Facility Status: Historical	15470 E ARROW HWY	NNW 1/8 - 1/4 (0.194 mi.)	I65	69
OCCUPANT	15468 E ARROW HWY	NNW 1/8 - 1/4 (0.195 mi.)	I66	69
WARSAW ENGINEERING, Facility Status: Historical	15468 ARROW HWY	NNW 1/8 - 1/4 (0.195 mi.)	I67	70
STUART'S TOOL SERVIC Facility Status: Historical	15464 ARROW HWY	NNW 1/8 - 1/4 (0.196 mi.)	I68	70
THE 3 AMINGOS TIRE S Facility Status: Historical	15460 E ARROW HWY	NNW 1/8 - 1/4 (0.198 mi.)	I69	70
JASCO WOOD PRODUCTS Facility Status: Backlog	***15519 ARROW HWY.***	***N 1/8 - 1/4 (0.200 mi.)***	***K71***	***72***
DIA-CHROME INC. Facility Status: Historical	15509 ARROW HWY	N 1/8 - 1/4 (0.202 mi.)	K73	75
HARRY HILL VOLKSWAGE	15507 ARROW HWY	N 1/8 - 1/4 (0.202 mi.)	K75	77
U S RENTALS Facility Status: Historical	***15402 E ARROW HWY***	***NW 1/8 - 1/4 (0.203 mi.)***	***M81***	***85***
KENT'S BODY WKS, KEN Facility Status: Historical	***15444 E ARROW HWY***	***NNW 1/8 - 1/4 (0.205 mi.)***	***N84***	***88***
TOMCO Facility Status: Historical	15438 ARROW HWY	NNW 1/8 - 1/4 (0.208 mi.)	N86	90
TOMCO PRODUCTS Facility Status: Historical	15438 ARROW HWY	NNW 1/8 - 1/4 (0.208 mi.)	N87	91
CHAPMAN APPLIANCE WA Facility Status: Historical	15406 ARROW HWY	NNW 1/8 - 1/4 (0.208 mi.)	N88	91
KNUDTSON REFINISHING Facility Status: Historical	***15434 ARROW HWY***	***NNW 1/8 - 1/4 (0.210 mi.)***	***N89***	***91***
OCCUPANT	15434 ARROW HWY	NNW 1/8 - 1/4 (0.210 mi.)	N90	97
J. D. PRECISION Facility Status: Historical	15430 ARROW HWY	NNW 1/8 - 1/4 (0.212 mi.)	N91	97
P & M AUTOMOTIVE Facility Status: Historical	15428 ARROW HWY	NNW 1/8 - 1/4 (0.213 mi.)	N92	97
SORENSEN BACKHOE Facility Status: Historical	5052 LANTE ST	WNW 1/8 - 1/4 (0.217 mi.)	O96	99
ARROW PIPE AND STEEL Facility Status: Historical	***15563 ARROW HWY***	***NNE 1/8 - 1/4 (0.218 mi.)***	***J97***	***99***
CHASE TIRE SERVICE Facility Status: Historical	***15545 E ARROW HWY***	***N 1/8 - 1/4 (0.222 mi.)***	***L99***	***102***
CARBIDE DIE & MGF. C Facility Status: Historical	15615 E ARROW HWY	NNE 1/8 - 1/4 (0.237 mi.)	P100	103
MARGETT BROS, INC. Facility Status: Historical	5057 LANTE ST	W 1/8 - 1/4 (0.241 mi.)	O102	103
CUSTOM WOODWORKS Facility Status: Historical	5103 LANTE ST	WNW 1/8 - 1/4 (0.246 mi.)	104	104
MC CARON STEEL FABRI	***5140 N LANTE ST***	***WNW 1/8 - 1/4 (0.246 mi.)***	***105***	***104***

Facility Status: Historical				
XTREME AUTO COLLISIO	***15629 ARROW HWY***	***NE 1/8 - 1/4 (0.247 mi.)***	***106***	***105***
Facility Status: Historical				
GENCO REBUILT PRODUC	15320 E ARROW HWY	NW 1/8 - 1/4 (0.249 mi.)	108	105
Facility Status: Historical				

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
D-L MACHINE SHOP	4946 AZUSA CANYON RD	S 0 - 1/8 (0.089 mi.)	B18	47
Facility Status: Historical				
ADVANCE MARINE & DEV	4954 AZUSA CANYON RD	SSW 0 - 1/8 (0.099 mi.)	D21	48
Facility Status: Historical				
ALBERT C. CLEGG & SO	4945 AZUSA CANYON RD	SSW 0 - 1/8 (0.112 mi.)	D24	49
RODRIGUEZ TRUCKING,	***4938 AZUSA CANYON RD***	***SSW 0 - 1/8 (0.113 mi.)***	***D25***	***50***
Facility Status: Historical				
CMZ COMPANY	***4926 N AZUSA CANYON***	***SSW 1/8 - 1/4 (0.162 mi.)***	***F35***	***58***
Facility Status: Historical				
HARPENG MATCH PLATE	4910 AZUSA CANYON RD	S 1/8 - 1/4 (0.175 mi.)	H46	62
Facility Status: Historical				
HARPENG MATCH PLATE	4910 AZUSA CANYON RD	S 1/8 - 1/4 (0.175 mi.)	H47	62
Facility Status: Historical				
UTILITY DISPOSAL COM	4854 AZUSA CANYON RD	S 1/8 - 1/4 (0.203 mi.)	83	88
GLENDORA TREE SURGER	5040 LANTE ST	W 1/8 - 1/4 (0.213 mi.)	93	98
Facility Status: Historical				
NATIONAL COOLER CORP	5018 LANTE ST	W 1/8 - 1/4 (0.214 mi.)	94	98
Facility Status: Historical				
ACTIVE AIRCRAFT WELD	4848 AZUSA CANYON RD	SSE 1/8 - 1/4 (0.216 mi.)	95	98
Facility Status: Historical				
RAINBOW ELECTRIC	5049 LANTE ST	W 1/8 - 1/4 (0.239 mi.)	101	103
Facility Status: Historical				
J & B CEMENT CONTRAC	4938 LANTE ST	WSW 1/8 - 1/4 (0.241 mi.)	103	104
QUALITY ENGINE CENTE	15253 NUBIA ST	WSW 1/8 - 1/4 (0.248 mi.)	Q107	105
Facility Status: Historical				
GEX INTERNATIONAL CO	15247 NUBIA ST	WSW 1/8 - 1/4 (0.250 mi.)	Q109	106
Facility Status: Historical				

ABANDONED MINES: An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

A review of the ABANDONED MINES list, as provided by EDR, and dated 06/09/2016 has revealed that there is 1 ABANDONED MINES site within approximately 0.5 miles of the target property.

Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
WESTERN ENVIRONMENTA	4702 AZUSA CANYON RO	S 1/4 - 1/2 (0.393 mi.)	T117	128

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	4946 AZUSA CANYON R	S 0 - 1/8 (0.089 mi.)	B17	47
Not reported	4954 AZUSA CANYON R	SSW 0 - 1/8 (0.099 mi.)	D22	48

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 7 records.

Site Name	Database(s)
UNOCAL #5411	LUST, HIST CORTESE
	CDL
	CDL
	CDL
AZUSA DUMP OWL 4X	LUST, WMUDS/SWAT, HIST Cal-Sites
SAN GABRIEL GROUND WATER BASIN 2	CA BOND EXP. PLAN
SAN GABRIEL VALLEY MOSQUITO ABATEM	ENVIROSTOR

OVERVIEW MAP - 4832331.2S

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 5010 Azusa Canyon Road ADDRESS: 5010 Azusa Canyon Road BALDWIN PARK CA 91706 LAT/LONG: 34.104286 / 117.942356	CLIENT: Ardent Environmental Group CONTACT: Paul Roberts INQUIRY #: 4832331.2s DATE: January 19, 2017 5:15 pm

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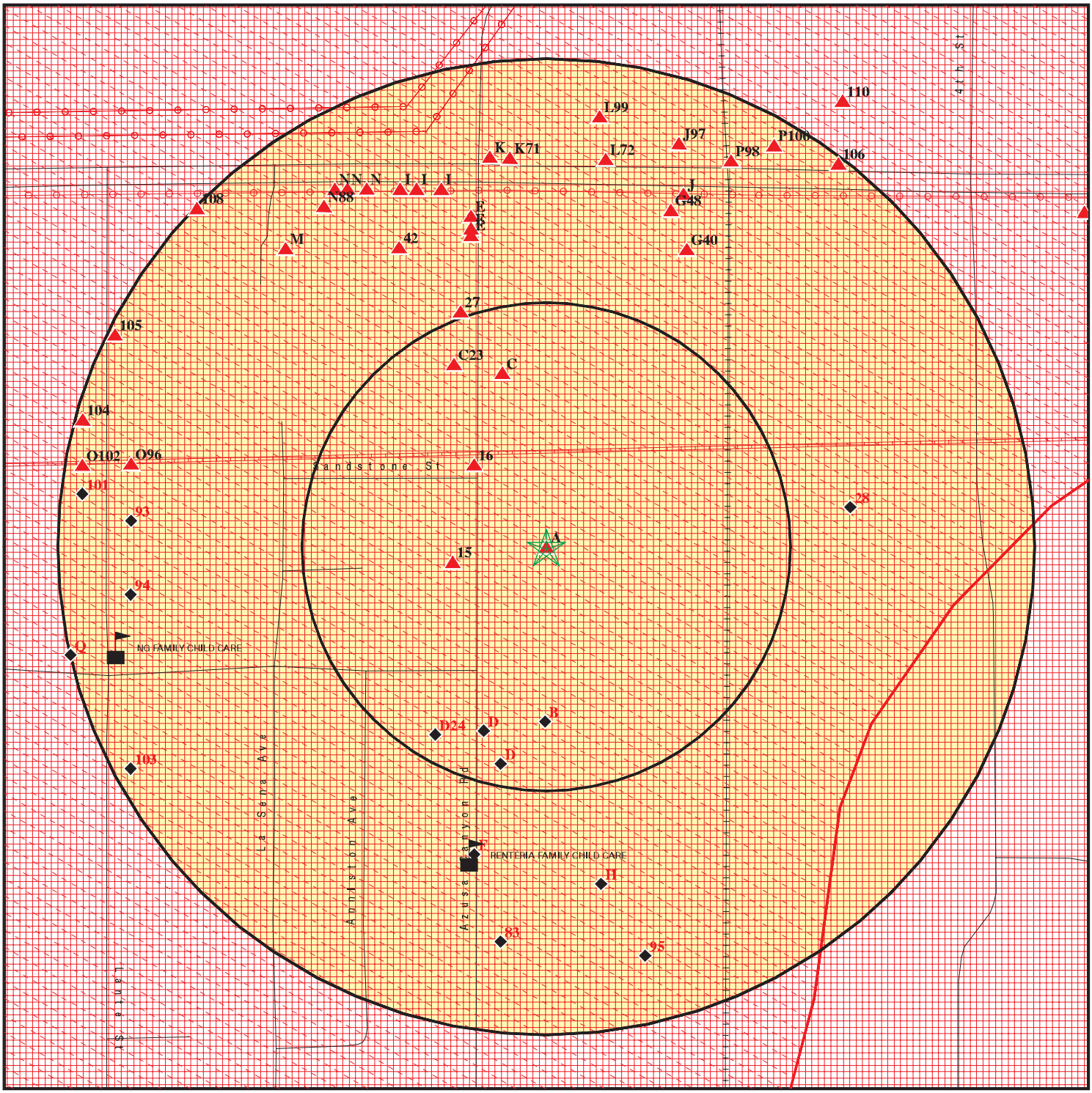
DETAIL MAP - 4832331.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 5010 Azusa Canyon Road	CLIENT: Ardent Environmental Group
ADDRESS: 5010 Azusa Canyon Road BALDWIN PARK CA 91706	CONTACT: Paul Roberts
LAT/LONG: 34.104286 / 117.942356	INQUIRY #: 4832331.2s DATE: January 19, 2017 5:18 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		1	0	0	0	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		1	0	0	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	1	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250	1	0	5	NR	NR	NR	6
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		1	0	0	NR	NR	1
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	6	NR	6
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500	1	1	1	4	NR	NR	7

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		0	1	3	NR	NR	4
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250	1	0	2	NR	NR	NR	3
AST	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
AOCONCERN	1.000		1	0	0	0	NR	1
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250	1	0	5	NR	NR	NR	6
HIST UST	0.250	2	2	7	NR	NR	NR	11
CA FID UST	0.250		0	1	NR	NR	NR	1
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	2	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		1	0	0	0	NR	1
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	2	NR	NR	NR	NR	NR	2

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HIST CORTESE	0.500	1	0	1	4	NR	NR	6
LOS ANGELES CO. HMS	TP	3	NR	NR	NR	NR	NR	3
HWP	1.000		0	0	0	1	NR	1
HWT	0.250		0	0	NR	NR	NR	0
MINES	TP		NR	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250	1	8	64	NR	NR	NR	73
ABANDONED MINES	0.500		0	0	1	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
ECHO	TP	1	NR	NR	NR	NR	NR	1
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		2	NR	NR	NR	NR	2
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP	2	NR	NR	NR	NR	NR	2
- Totals --		17	18	90	13	8	0	146

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
Target
Property

GENERAL TELEPHONE CO.
5010 AZUSA CANYON RD N
IRWINDALE, CA 91706

LUST **S102430701**
N/A

Site 1 of 14 in cluster A

Actual:
449 ft.

LUST:

Region:	STATE
Global Id:	T0603704631
Latitude:	34.1037064
Longitude:	-117.9427372
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/26/1996
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-03882
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603704631
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603704631
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603704631
Status:	Completed - Case Closed
Status Date:	11/26/1996

Global Id:	T0603704631
Status:	Open - Case Begin Date
Status Date:	01/02/1991

Global Id:	T0603704631
Status:	Open - Site Assessment
Status Date:	05/16/1991

GENERAL TELEPHONE CO. (Continued) **S102430701**

Regulatory Activities:

Global Id:	T0603704631
Action Type:	Other
Date:	01/02/1991
Action:	Leak Discovery
Global Id:	T0603704631
Action Type:	Other
Date:	01/02/1991
Action:	Leak Stopped
Global Id:	T0603704631
Action Type:	Other
Date:	05/16/1991
Action:	Leak Reported

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	R-03882	
Status:	Case Closed	
Substance:	Diesel	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603704631	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	ARROW HWY	
Enforcement Type:	Not reported	
Date Leak Discovered:	1/2/1991	
Date Leak First Reported:		5/16/1991
Date Leak Record Entered:	5/22/1991	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	1/2/1991	
Date Case Last Changed on Database:		5/14/1993
Date the Case was Closed:		11/26/1996
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	MCCORMIC, J.D.	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1095.93295825272687145880797 86
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		5/16/1991
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported

GENERAL TELEPHONE CO. (Continued) **S102430701**

Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	GTE CALIFORNIA, INC.
RP Address:	P.O. BOX 725, CHINO, CA 91708
Program:	LUST
Lat/Long:	34.1037064 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	OLD CASE #061391-10

A2 **VERIZON CALIFORNIA INC IRWINDALE** **FINDS** **1016114365**
Target **5010 AZUSA CANYON ROAD** **ECHO** **N/A**
Property **IRWINDALE, CA 91706**

Site 2 of 14 in cluster A

Actual:
449 ft.

FINDS:

Registry ID: 110012216208

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

ECHO:

Envid:	1016114365
Registry ID:	110012216208
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110012216208

A3 **VERIZON CALIFORNIA** **LOS ANGELES CO. HMS** **S104827190**
Target **5010 AZUSA CANYON RD** **N/A**
Property **IRWINDALE, CA 91706**

Site 3 of 14 in cluster A

Actual:
449 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: I
Facility Id: 003755-I03882
Facility Type: 01
Facility Status: Permit
Area: 3S
Permit Number: 000009136
Permit Status: Permit

Region: LA
Permit Category: I
Facility Id: 003755-I03882
Facility Type: 01
Facility Status: Permit
Area: 3S
Permit Number: 000068214
Permit Status: Removed

A4 **GENERAL TELEPHONE CO.** **RGA LUST** **S114626540**
Target **5010 AZUSA CYN RD., N.** **N/A**
Property **IRWINDALE, CA**

Site 4 of 14 in cluster A

Actual:
449 ft.

RGA LUST:

1994	GENERAL TELEPHONE CO.	5010 AZUSA CYN RD., N.
1993	GENERAL TELEPHONE CO.	5010 AZUSA CYN RD., N.

A5 **GENERAL TELEPHONE CO.** **RGA LUST** **S114626538**
Target **5010 AZUSA CANYON RD N** **N/A**
Property **IRWINDALE, CA**

Site 5 of 14 in cluster A

Actual:
449 ft.

RGA LUST:

2012	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2011	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2010	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2009	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2008	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2007	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2006	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2005	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2003	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2002	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2001	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
2000	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
1998	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
1997	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
1996	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N
1995	GENERAL TELEPHONE CO.	5010 AZUSA CANYON RD N

A6
Target Property
FRONTIER CALIFORNIA INC IRWINDALE YARD
5010 AZUSA CANYON RD
IRWINDALE, CA 91706

RCRA-SQG **1004676359** **CAR000084251**

Site 6 of 14 in cluster A

Actual: 449 ft.

RCRA-SQG:

Date form received by agency:	03/29/2016
Facility name:	FRONTIER CALIFORNIA INC IRWINDALE YARD
Facility address:	5010 AZUSA CANYON RD IRWINDALE, CA 91706
EPA ID:	CAR000084251
Mailing address:	PO BOX 725 CHINO, CA 91708
Contact:	MASOOD CHOUDHURY
Contact address:	PO BOX 725 CHINO, CA 91708
Contact country:	US
Contact telephone:	909-620-5962
Contact email:	MASOOD.CHOUDHURY@FTR.COM
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	FRONTIER CALIFORNIA INC
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	04/01/2016
Owner/Op end date:	Not reported

Owner/operator name:	FRONTIER CALIFORNIA INC
Owner/operator address:	PO BOX 725 CHINO, 91708
Owner/operator country:	US
Owner/operator telephone:	909-620-5962
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	04/01/2016
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

FRONTIER CALIFORNIA INC IRWINDALE YARD (Continued) **1004676359**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 141
. Waste name: 141

. Waste code: 181
. Waste name: 181

. Waste code: 214
. Waste name: 214

. Waste code: 331
. Waste name: 331

. Waste code: 352
. Waste name: 352

. Waste code: D001
. Waste name: IGNITABLE WASTE

Historical Generators:
Date form received by agency: 10/10/2000
Site name: VERIZON CALIFORNIA INCORPORATED IRWINDAL
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D018
. Waste name: BENZENE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

FRONTIER CALIFORNIA INC IRWINDALE YARD (Continued) **1004676359**

Violation Status: No violations found

A7
Target Property

GENERAL TELEPHONE COMPANY OF C **HIST UST** **U001568756**
5010 AZUSA CANYON RD **N/A**
IRWINDALE, CA 91706

Site 7 of 14 in cluster A

Actual: 449 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000003723
Facility Type:	Other
Other Type:	UTILITY COMPANY
Contact Name:	KENNETH C. SCHIMMEL
Telephone:	8189603175
Owner Name:	GENERAL TELEPHONE COMPANY OF C
Owner Address:	4969 PALO VERDE DRIVE
Owner City,St,Zip:	MONTCLAIR, CA 91763
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	004
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

A8 **FRONTIER CALIFORNIA INC** **LOS ANGELES CO. HMS** **S118689596**
Target **5010 AZUSA CANYON RD** **N/A**
Property **IRWINDALE, CA 91706**

Site 8 of 14 in cluster A

Actual:
449 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 003755-061982
Facility Type: Not reported
Facility Status: OPEN
Area: 3S
Permit Number: Not reported
Permit Status: Not reported

A9 **GTE CALIFORNIA** **UST** **U004049655**
Target **5010 AZUSA CANYON RD** **N/A**
Property **BALDWIN PARK, CA 91706**

Site 9 of 14 in cluster A

Actual:
449 ft.

UST:
Facility ID: 3882
Permitting Agency: LOS ANGELES COUNTY
Latitude: 34.1056549
Longitude: -117.9413681

A10 **VERIZON CALIFORNIA** **LOS ANGELES CO. HMS** **S104536062**
Target **5010 AZUSA CANYON RD** **N/A**
Property **IRWINDALE, CA 91706**

Site 10 of 14 in cluster A

Actual:
449 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 003755-003882
Facility Type: 0
Facility Status: Removed
Area: 3S
Permit Number: 00001565T
Permit Status: Removed

A11 **GENERAL TELEPHONE** **SWEEPS UST** **S103662538**
Target **5010 N AZUSA CANYON RD** **WIP** **N/A**
Property **IRWINDALE, CA 91706**

Site 11 of 14 in cluster A

Actual:
449 ft.

SWEEPS UST:
Status: Active
Comp Number: 3882
Number: 9
Board Of Equalization: 44-007526
Referral Date: 06-30-89
Action Date: Not reported

GENERAL TELEPHONE (Continued) **S103662538**

Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-003882-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 4

Status: Active
Comp Number: 3882
Number: 9
Board Of Equalization: 44-007526
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-003882-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 3882
Number: 9
Board Of Equalization: 44-007526
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-003882-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 3882
Number: 9
Board Of Equalization: 44-007526
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-003882-000004
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89

GENERAL TELEPHONE (Continued) **S103662538**

Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

WIP:
Region: 4
File Number: 108.0212
File Status: Historical
Staff: DRASMUSS
Facility Suite: Not reported

A12 Target Property **GTE CALIFORNIA INCORPORATED** **HIST UST** **S113004739**
5010 N AZUSA CANYON RD **HAZNET** **N/A**
IRWINDALE, CA 91708

Site 12 of 14 in cluster A

Actual: 449 ft.

HIST UST:
File Number: 00026ABF
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026ABF.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HAZNET:
envid: S113004739
Year: 2000
GEPAID: CAD981394174
Contact: KIM BRAY/CONSULTANT
Telephone: 8003318891
Mailing Name: Not reported
Mailing Address: PO BOX 725
Mailing City,St,Zip: CHINO, CA 917080725
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Treatment, Tank

GTE CALIFORNIA INCORPORATED (Continued) **S113004739**

Tons: 1.25
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113004739
Year: 2000
GEPAID: CAD981394174
Contact: KIM BRAY/CONSULTANT
Telephone: 8003318891
Mailing Name: Not reported
Mailing Address: PO BOX 725
Mailing City,St,Zip: CHINO, CA 917080725
Gen County: Not reported
TSD EPA ID: CAD044429835
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Disposal, Other
Tons: 0.46
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113004739
Year: 2000
GEPAID: CAD981394174
Contact: KIM BRAY/CONSULTANT
Telephone: 8003318891
Mailing Name: Not reported
Mailing Address: PO BOX 725
Mailing City,St,Zip: CHINO, CA 917080725
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Oil/water separation sludge
Disposal Method: Recycler
Tons: 2.08
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113004739
Year: 2000
GEPAID: CAD981394174
Contact: KIM BRAY/CONSULTANT
Telephone: 8003318891
Mailing Name: Not reported
Mailing Address: PO BOX 725
Mailing City,St,Zip: CHINO, CA 917080725
Gen County: Not reported
TSD EPA ID: CAT000613893
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Transfer Station
Tons: 0.59
Cat Decode: Not reported
Method Decode: Not reported

GTE CALIFORNIA INCORPORATED (Continued) **S113004739**

Facility County: Los Angeles

envid: S113004739
Year: 1999
GEPAID: CAD981394174
Contact: GTE CALIFORNIA INCORPORATED
Telephone: 8003318890
Mailing Name: Not reported
Mailing Address: PO BOX 725
Mailing City,St,Zip: CHINO, CA 917080725
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Transfer Station
Tons: .0035
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
65 additional CA_HAZNET: record(s) in the EDR Site Report.

A13 **GENERAL TELEPHONE CO** **HIST CORTESE** **S105024237**
Target **5010 AZUSA CNYN** **N/A**
Property **IRWINDALE, CA 91706**

Site 13 of 14 in cluster A

Actual:
449 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-03882

A14 **VERIZON CA INC IRWINDALE PY** **HAZNET** **S113175368**
Target **5010 AZUSA CANYON RD** **N/A**
Property **IRWINDALE, CA 91706**

Site 14 of 14 in cluster A

Actual:
449 ft.

HAZNET:
envid: S113175368
Year: 2015
GEPAID: CAR000084251
Contact: MASOOD CHOUDHURY
Telephone: 9096205962
Mailing Name: Not reported
Mailing Address: PO BOX 725
Mailing City,St,Zip: CHINO, CA 917080000
Gen County: Los Angeles
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

VERIZON CA INC IRWINDALE PY (Continued) **S113175368**

Tons:	0.43
Cat Decode:	Off-specification, aged or surplus organics
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles
envid:	S113175368
Year:	2015
GEPAID:	CAR000084251
Contact:	MASOOD CHOUDHURY
Telephone:	9096205962
Mailing Name:	Not reported
Mailing Address:	PO BOX 725
Mailing City,St,Zip:	CHINO, CA 917080000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Laboratory waste chemicals
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.305
Cat Decode:	Laboratory waste chemicals
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles
envid:	S113175368
Year:	2015
GEPAID:	CAR000084251
Contact:	MASOOD CHOUDHURY
Telephone:	9096205962
Mailing Name:	Not reported
Mailing Address:	PO BOX 725
Mailing City,St,Zip:	CHINO, CA 917080000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Unspecified oil-containing waste
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.11676
Cat Decode:	Unspecified oil-containing waste
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles
envid:	S113175368
Year:	2015
GEPAID:	CAR000084251
Contact:	MASOOD CHOUDHURY
Telephone:	9096205962
Mailing Name:	Not reported
Mailing Address:	PO BOX 725
Mailing City,St,Zip:	CHINO, CA 917080000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles

VERIZON CA INC IRWINDALE PY (Continued) **S113175368**

Waste Category:	Other organic solids
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.475
Cat Decode:	Other organic solids
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles
envid:	S113175368
Year:	2014
GEPAID:	CAR000084251
Contact:	ZACH FEINGOLD
Telephone:	9096205498
Mailing Name:	Not reported
Mailing Address:	PO BOX 725
Mailing City,St,Zip:	CHINO, CA 917080000
Gen County:	Los Angeles
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.1575
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
61 additional CA_HAZNET: record(s) in the EDR Site Report.

Areas of Concern **SAN GABRIEL VALLEY** **AOCONCERN** **CCA0000001** **N/A**

LOS ANGELES (County), CA

< 1/8
1 ft.

AOCONCERN:
area where VOC contamination is at or above the MCL as designated by region 9 EPA office

---

NPL Region **SAN GABRIEL VALLEY (AREA 2)** **NPL** **1000114961**
SUNSET & SAN BERNARDINO FREEWAY **SEMS** **CAD980818512**
BALDWIN PARK, CA 91706 **US ENG CONTROLS**
ROD
PRP

< 1/8
1 ft.

NPL:

EPA ID:	CAD980818512
Cerclis ID:	902092
EPA Region:	9
Federal:	N
Final Date:	1984-05-07 00:00:00
Site Score:	42.240000000000002
Latitude:	34.073610000000002

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Longitude: -117.9361

Category Details:
NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-<= 10 Feet
Category Value: 1

NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 10

Site Details:
Site Name: SAN GABRIEL VALLEY (AREA 2)
Site Status: Final
Site Zip: 91706
Site City: BALDWIN PARK
Site State: CA
Federal Site: No
Site County: LOS ANGELES
EPA Region: 09
Date Proposed: 09/08/83
Date Deleted: Not reported
Date Finalized: 05/08/84

Substance Details:
NPL Status: Currently on the Final NPL
Substance ID: Not reported
Substance: Not reported
CAS #: Not reported
Pathway: Not reported
Scoring: Not reported

NPL Status: Currently on the Final NPL
Substance ID: U210
Substance: TETRACHLOROETHENE
CAS #: 127-18-4
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U211
Substance: CARBON TETRACHLORIDE
CAS #: 56-23-5
Pathway: GROUND WATER PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: U228
Substance: TRICHLOROETHYLENE (TCE)
CAS #: 79-01-6
Pathway: GROUND WATER PATHWAY
Scoring: 2

Summary Details:
Conditions at listing September 1983): San Gabriel Valley Area 2) is a

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

ground water plume that parallels the San Gabriel River to the west in the San Gabriel ground water basin in the Baldwin Park area of Los Angeles County, California. The plume is about 7.5 miles long and 1.5 miles wide.
Ground water is contaminated with trichloroethylene TCE), perchloroethylene PCE), and carbon tetrachloride, according to analyses by State agencies and local water companies. Many public wells in the area exceed the EPA Suggested No Adverse Response Levels SNARL) for TCE and PCE. Approximately 100,000 people are affected. Cities and public water companies in the area have tested to ensure that their water supplies containless than 5 parts per billion ppb) of TCE, a level considered safe for human consumption. When alternative methods of reducing the TCE level below 5 ppb are not effective, wells are removed from service. Status June 1984): A supplemental sampling program of contaminated wells will begin soon to get a snapshot view of the degree of contamination. The State Department of Health Services and EPA are preparing to initiate a remedial investigation/ feasibility study to determine the aerial and vertical extent of contamination and to develop alternatives for treatment and management of the problem. EPA continues its investigation to identify sources of the contamination. This site, along with the threeother San Gabriel Valley sites, was added to the NPL in May 1984 because it involves a serious problem that required taking immediate remedial action.

Site Status Details:

NPL Status:	Final
Proposed Date:	09/08/1983
Final Date:	05/08/1984
Deleted Date:	Not reported

Narratives Details:

NPL Name:	SAN GABRIEL VALLEY (AREA 2)
City:	BALDWIN PARK
State:	CA

SEMS:

Site ID:	902092
EPA ID:	CAD980818512
Federal Facility:	N
NPL:	Currently on the Final NPL
Non NPL Status:	Not reported

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID:	0902092
EPA ID:	CAD980818512
Facility County:	LOS ANGELES
Short Name:	SAN GABRIEL VALLEY (AREA
Congressional District:	32
IFMS ID:	09M5
SMSA Number:	4480
USGC Hydro Unit:	18070106
Federal Facility:	Not a Federal Facility
DMNSN Number:	12.25000
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	09
Classification:	Groundwater
Site Settings Code:	SU
NPL Status:	Currently on the Final NPL
DMNSN Unit Code:	SQMI
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Not reported
Non NPL Status Date:	/ /
Site Fips Code:	06037
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	9000127.00000
Contact Name:	Wayne Praskins
Contact Tel:	(415) 972-3181
Contact Title:	Remedial Project Manager (RPM)
Contact Email:	Not reported
Contact ID:	13003854.00000
Contact Name:	Leslie Ramirez
Contact Tel:	(415) 972-3978
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported
Contact ID:	13003858.00000
Contact Name:	Sharon Murray
Contact Tel:	(415) 972-4250
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported
Contact ID:	13004003.00000
Contact Name:	Carl Brickner
Contact Tel:	Not reported
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported

CERCLIS Site Alias Name(s):

Alias ID:	101
Alias Name:	BALDWIN PARK
Alias Address:	Not reported
	Not reported
Alias ID:	102
Alias Name:	SAN GABRIEL VALLEY (AREA 2)
Alias Address:	SUNSET & SN BERNARDINO FRWY
	BALDWIN PARK, CA 91706
Alias ID:	103
Alias Name:	SAN GABRIEL VALLEY (AREA 2)
Alias Address:	SUNSET & SAN BERNARDINO FREEWAY
	BALDWIN PARK AREA, CA 91706
Alias Comments:	Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Site Description: Four areas of groundwater contamination are listed on the National Priorities List: San Gabriel Valley Area 1, San Gabriel Valley Area 2, San Gabriel Valley 3, and San Gabriel Valley 4. The four areas represent a significant portion of the 170 square mile San Gabriel Valley in Los Angeles County, California. More than one million residents live in the San Gabriel Valley alongside a variety of commercial and industrial operations. The San Gabriel Aquifer, which underlies most of the San Gabriel Valley Basin, stores an estimated three trillion gallons of water and is the primary source of water for most of the Basin?s residents. Major surface water features in the San Gabriel Valley include the San Gabriel River, tributaries to the San Gabriel River system, and spreading basins located in or adjacent to the river channels. The approximate location of the San Gabriel Valley Area 2 Site is west of highway 39, south of the San Gabriel Mountains, east of the San Gabriel River, and north of Walnut Creek. Nearly all of the Baldwin Park area is fully developed for residential, commercial, and industrial use. The largest parcels of open land are active and inactive gravel pits and the Santa Fe flood Control Basin. Water purveyors in the site area include: the City of Azusa, California Domestic Water Company, City of Glendora, La Puente Valley County Water District, San Gabriel Valley Water Company, Suburban Water Systems, and Valley County Water District. Volatile Organic Compounds (VOCs), major contaminants of concern at the San Gabriel Valley Sites, were used in large quantities at industrial facilities as early as the 1940?s. From the 1940?s through the 1980?s, carbon tetrachloride, tetrachloroethane, thrichlorethene, and other chlorinated solvents were used by hundreds of businesses for degreasing, as raw materials for automotive products, by a solvent recycler, for chemical extractions , and for other purposes. VOCs have been released by a combination of intentional disposal, careless handling during loading and unloading, leaking tanks and pipes, and other means. VOCs were not detected in ground water until 1979 during environmental monitoring activities conducted by Aerojet Electrosystems near its facility in Azusa. In May 1984, EPA listed four areas of contamination were listed as San Gabriel Valley Area 1 through 4. EPA began its enforcement efforts in the site area in 1985 with searches for and evaluations of historical Federal, State, and local records on chemical usage, handling, and disposal. In 1985, the California Regional Water Quality Board began its Well Investigation Program (WIP) to identify the sources of ground water contamination detected in water supply wells. In 1989, EPA entered into a cooperative agreement to expand the WIP program to determine the nature and extent of contamination in the San Gabriel Valley. The RI/FS for the Baldwin Park OU was conducted concurrently with source identification efforts, as a fund-lead project. In March 1994, the Record of Decision (ROD) document was signed.

CERCLIS Assessment History:

Action Code:	001
Action:	DISCOVERY
Date Started:	/ /
Date Completed:	04/01/80
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	State, No Fund Money
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	ISSUE REQUEST LETTERS (104E)

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Date Started: / /
Date Completed: 08/01/83
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: SITE INSPECTION
Date Started: 03/01/83
Date Completed: 09/01/83
Priority Level: Higher priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 09/01/83
Priority Level: Higher priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: HAZARD RANKING SYSTEM PACKAGE
Date Started: / /
Date Completed: 09/01/83
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started: / /
Date Completed: 09/08/83
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Code: 002
Action: ISSUE REQUEST LETTERS (104E)
Date Started: / /
Date Completed: 01/01/84
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: COMMUNITY INVOLVEMENT
Date Started: 05/01/84
Date Completed: 05/01/84
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started: / /
Date Completed: 05/08/84
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 003
Action: ISSUE REQUEST LETTERS (104E)
Date Started: / /
Date Completed: 12/30/88
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 006
Action: Notice Letters Issued
Date Started: / /
Date Completed: 05/07/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Code: 007
Action: Notice Letters Issued
Date Started: / /
Date Completed: 06/07/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 004
Action: ISSUE REQUEST LETTERS (104E)
Date Started: / /
Date Completed: 06/08/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 008
Action: Notice Letters Issued
Date Started: / /
Date Completed: 07/09/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 014
Action: Notice Letters Issued
Date Started: / /
Date Completed: 09/20/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 016
Action: Notice Letters Issued
Date Started: / /
Date Completed: 10/12/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Anomaly: Not reported

Action Code: 017
Action: Notice Letters Issued
Date Started: / /
Date Completed: 12/05/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 018
Action: Notice Letters Issued
Date Started: / /
Date Completed: 12/06/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 019
Action: Notice Letters Issued
Date Started: / /
Date Completed: 12/07/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: Notice Letters Issued
Date Started: / /
Date Completed: 02/07/91
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: Notice Letters Issued
Date Started: / /
Date Completed: 03/06/91
Priority Level: Not reported
Operable Unit: SITEWIDE

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 009
Action: Notice Letters Issued
Date Started: / /
Date Completed: 07/09/91
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 015
Action: Notice Letters Issued
Date Started: / /
Date Completed: 09/26/91
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ADMINISTATIVE/VOLUNTARY COST RECOVERY
Date Started: / /
Date Completed: 09/30/91
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: REMOVAL ASSESSMENT
Date Started: 12/27/91
Date Completed: 12/27/91
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: RISK/HEALTH ASSESSMENT
Date Started: / /

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Date Completed: 09/16/92
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ECOLOGICAL RISK ASSESSMENT
Date Started: / /
Date Completed: 09/16/92
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: Special Notice Issued
Date Started: / /
Date Completed: 05/26/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 010
Action: Notice Letters Issued
Date Started: / /
Date Completed: 08/04/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 013
Action: Notice Letters Issued
Date Started: / /
Date Completed: 08/27/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Code: 001
Action: Special Notice Issued
Date Started: / /
Date Completed: 02/03/94
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 08/01/87
Date Completed: 03/31/94
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: RECORD OF DECISION
Date Started: / /
Date Completed: 03/31/94
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH
Date Started: 09/30/84
Date Completed: 07/01/94
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH
Date Started: 01/30/89
Date Completed: 07/01/94
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Code: 011
Action: Notice Letters Issued
Date Started: / /
Date Completed: 08/09/94
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 003
Action: Notice Letters Issued
Date Started: / /
Date Completed: 04/13/95
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 004
Action: Notice Letters Issued
Date Started: / /
Date Completed: 04/20/95
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 005
Action: Notice Letters Issued
Date Started: / /
Date Completed: 05/05/95
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 012
Action: Notice Letters Issued
Date Started: / /
Date Completed: 08/18/95
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Anomaly: Not reported

Action Code: 001
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 05/13/96
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: 05/15/97
Date Completed: 06/30/00
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 06/30/00
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PROSPECTIVE PURCHASER AGREEMENT ASSESSMENT
Date Started: 06/05/01
Date Completed: 09/25/01
Priority Level: PPA Signed
Operable Unit: BALDWIN PARK
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 09/25/01
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: Federal Enforcement

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: Lodged By DOJ
Date Started: / /
Date Completed: 04/11/02
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: Not reported
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: ALTERNATIVE DISPUTE RESOLUTION
Date Started: 07/01/00
Date Completed: 05/31/02
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: CONSENT DECREE
Date Started: 01/01/02
Date Completed: 08/27/02
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 07/21/00
Date Completed: 09/26/02
Priority Level: Not reported
Operable Unit: LPVCWD SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 003
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 07/21/00
Date Completed: 03/31/03
Priority Level: Not reported
Operable Unit: VCWD SUBPROJECT

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 004
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 07/21/00
Date Completed: 08/08/03
Priority Level: Not reported
Operable Unit: SGVWC B6 SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 09/26/02
Date Completed: 09/30/03
Priority Level: Interim RA Report
Operable Unit: LPVCWD SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 005
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 07/21/00
Date Completed: 09/29/04
Priority Level: Not reported
Operable Unit: SGVWC B5 SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 003
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 03/31/03
Date Completed: 09/30/04
Priority Level: Interim RA Report
Operable Unit: VCWD SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Long Term Action
Action Anomaly: Not reported

Action Code: 001
Action: CLAIM IN BANKRUPTCY PROCEEDING
Date Started: 03/14/05

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Date Completed: 03/14/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 004
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 08/08/03
Date Completed: 03/31/05
Priority Level: Interim RA Report
Operable Unit: SGVWC B6 SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Long Term Action
Action Anomaly: Not reported

Action Code: 010
Action: Lodged By DOJ
Date Started: / /
Date Completed: 09/20/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 012
Action: Lodged By DOJ
Date Started: / /
Date Completed: 10/26/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 011
Action: Lodged By DOJ
Date Started: / /
Date Completed: 10/26/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Code: 013
Action: Lodged By DOJ
Date Started: / /
Date Completed: 10/26/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 009
Action: Lodged By DOJ
Date Started: / /
Date Completed: 10/26/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 008
Action: Lodged By DOJ
Date Started: / /
Date Completed: 10/26/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 007
Action: Lodged By DOJ
Date Started: / /
Date Completed: 10/26/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 006
Action: Lodged By DOJ
Date Started: / /
Date Completed: 10/26/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action Anomaly: Not reported

Action Code: 001
Action: SETTLEMENT (GENERIC)
Date Started: / /
Date Completed: 11/01/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 005
Action: CONSENT DECREE
Date Started: 09/28/05
Date Completed: 12/12/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 006
Action: CONSENT DECREE
Date Started: 09/28/05
Date Completed: 12/13/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: CONSENT DECREE
Date Started: 09/28/05
Date Completed: 12/13/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 003
Action: CONSENT DECREE
Date Started: 09/28/05
Date Completed: 12/13/05
Priority Level: Not reported
Operable Unit: SITEWIDE

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 004
Action: CONSENT DECREE
Date Started: 09/28/05
Date Completed: 12/13/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 007
Action: CONSENT DECREE
Date Started: 09/28/05
Date Completed: 12/14/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 008
Action: CONSENT DECREE
Date Started: 09/28/05
Date Completed: 12/16/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 005
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 09/29/04
Date Completed: 09/28/06
Priority Level: Interim RA Report
Operable Unit: SGVWC B5 SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 009
Action: CONSENT DECREE
Date Started: 03/26/07

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Date Completed: 03/26/07
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 014
Action: Lodged By DOJ
Date Started: / /
Date Completed: 06/21/07
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: FIVE-YEAR REVIEW
Date Started: 05/01/07
Date Completed: 09/27/07
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: FIVE-YEAR REVIEW
Date Started: / /
Date Completed: 09/24/12
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 07/21/00
Date Completed: / /
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Other Start and Completion Anomaly

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Date Started: 09/26/02
Date Completed: / /
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Other Start and Completion Anomaly

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY LONG-TERM RESPONSE ACTION
Date Started: 09/30/03
Date Completed: / /
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: OPERATIONS AND MAINTENANCE
Date Started: 09/30/03
Date Completed: / /
Priority Level: Not reported
Operable Unit: BALDWIN PARK
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 002
Action: OPERATIONS AND MAINTENANCE
Date Started: 09/30/03
Date Completed: / /
Priority Level: Not reported
Operable Unit: LPVCWD SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 003
Action: OPERATIONS AND MAINTENANCE
Date Started: 09/30/04
Date Completed: / /
Priority Level: Not reported
Operable Unit: VCWD SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 004

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Action: OPERATIONS AND MAINTENANCE
Date Started: 03/31/05
Date Completed: / /
Priority Level: Not reported
Operable Unit: SGVWC B6 SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 005
Action: OPERATIONS AND MAINTENANCE
Date Started: 09/28/06
Date Completed: / /
Priority Level: Not reported
Operable Unit: SGVWC B5 SUBPROJECT
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Federal Register Details:
Fed Register Date: 05/08/84
Fed Register Volume: 49
Page Number: 19480

Fed Register Date: 09/08/83
Fed Register Volume: 48
Page Number: 40674

US ENG CONTROLS:
EPA ID: CAD980818512
Site ID: 0902092
Name: SAN GABRIEL VALLEY (AREA 2)
Address: SUNSET & SAN BERNARDINO FREEWAY
BALDWIN PARK, CA 91706
EPA Region: 09
County: LOS ANGELES
Event Code: Not reported
Actual Date: 03/31/1994
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported
Event Code Description: Not reported
GIS Lat/Long Sequence: Not reported
GIS Sequence: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/31/1994
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Air Stripping

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported
Event Code Description: Not reported
GIS Lat/Long Sequence: Not reported
GIS Sequence: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/31/1994
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Discharge
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported
Event Code Description: Not reported
GIS Lat/Long Sequence: Not reported
GIS Sequence: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/31/1994
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Liquid Phase Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported
Event Code Description: Not reported
GIS Lat/Long Sequence: Not reported
GIS Sequence: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/31/1994
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported
Event Code Description: Not reported
GIS Lat/Long Sequence: Not reported
GIS Sequence: Not reported

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 03/31/1994
Operable Unit: 01
Contaminated Media : Groundwater
Engineering Control: Pump And Treat
Contact Name: Not reported

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported
Event Code Description: Not reported
GIS Lat/Long Sequence: Not reported
GIS Sequence: Not reported

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

PRP:

PRP name:
A & J SYSTEMS
A&E PLASTICS CO.
A-1 ORNAMENTAL IRON
ACORN ENGINEERING CO.
ACROMIL
ADAMS AND COLTRIN, INC.
ADAMS CAMPBELL CO., LTD.
ADVANCED HEAT TECHNOLOGY CORP.
AEROJET ELECTROSYSTEMS
AEROJET ELECTROSYSTEMS
AEROJET-GENERAL CORP.
AEROJET-GENERAL CORP.
AEROJET-GENERAL CORP.
AEROSOL SERVICES COMPANY
AIR DISTRIBUTION PRODUCTS, INC.
ALLEGIANCE HEALTHCARE CORPORATION
ALLEGIANCE HEALTHCARE CORPORATION
ALLFAST FASTENING SYSTEMS, INC.
ALLIED PHOTO PRODUCTS INC.
ALLSTATE INSURANCE CO.
AMERICAN SHEDS INC.
ARCADIA MACHINE AND TOOL
AREMAC ASSOCIATES
AREMAC HEAT TREATING,INC.
ARMY CORPS OF ENGINEERS
ARTHUR B. SCHULTZ AND JOSEPH POLTORAK
ARTISTIC POLISHING AND PLATING
ASSOCIATED ASPHALT PAVING MATERIALS
ASTRO SEAL, INC.
ASTRO SEAL, INC.
ASTRONAUTIC ENAMELERS
AZUSA GAS SYSTEMS
AZUSA LAND RECLAMATION
AZUSA LAND RECLAMATION
AZUSA PIPE AND TUBE BENDING
AZUSA PIPE AND TUBE BENDING
AZUSA ROCK INC.
B&B RED-I-MIX-CONCRETE INC.
BALL-ICON, BALL GLASS DIV.
BAXTER HEALTHCARE CORPORATION
BDP CO.
BENCHMARK HOLDING GROUP
BENCHMARK TECHNOLOGY
BIRTCHER

SAN GABRIEL VALLEY (AREA 2) (Continued) **1000114961**

BRENT FAMILY TRUST
BROWN JORDEN CO.
C&H DISTRIBUTING
CAL MAT CO.
CALIFORNIA HYDROFORMING CO., INC.
CALIFORNIA STEEL AND TUBE
CALTRANS
CARDINAL INDUSTRIES FINISHERS
CHAMPION PARTS, INC.
CHARLES HOFGAARDEN
CHEM ARROW CORPORATION
CHEMICAL WASTE MANAGEMENT
CHEMLAWN SERVICE CORP.
CHEVRON CORPORATION
CHEVRON USA, INC.
CLAUDEAN MULLINS KAWIE

Click this hyperlink while viewing on your computer to access
193 additional PRP: record(s) in the EDR Site Report.

15
West
< 1/8
0.048 mi.
256 ft.

KARL BRYAN PLUMBING **WIP** **S106766959**
5029 AZUSA CANYON RD **N/A**
BALDWIN PARK, CA 91706

Relative:
Higher

Actual:
449 ft.

WIP:
Region: 4
File Number: 108.1131
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: Not reported

16
NW
< 1/8
0.056 mi.
296 ft.

FORD PRINTING & MAILING INC. **WIP** **S106766481**
5102 AZUSA CANYON RD **N/A**
IRWINDALE, CA 91706

Relative:
Higher

Actual:
451 ft.

WIP:
Region: 4
File Number: 108.0459
File Status: **Historical**
Staff: DKOO
Facility Suite: Not reported

B17
South
< 1/8
0.089 mi.
472 ft.

4946 AZUSA CANYON RD
BALDWIN PARK, CA 91706

Site 1 of 2 in cluster B

EDR Hist Auto **1015519108**
N/A

Relative:
Lower

Actual:
447 ft.

EDR Historical Auto Stations:

Name: ARROW ENGINEERING
Year: 2006
Address: 4946 AZUSA CANYON RD

Name: ARROW ENGINEERING
Year: 2007
Address: 4946 AZUSA CANYON RD

Name: ARROW ENGINEERING
Year: 2008
Address: 4946 AZUSA CANYON RD

B18
South
< 1/8
0.089 mi.
472 ft.

D-L MACHINE SHOP
4946 AZUSA CANYON RD
IRWINDALE, CA 91706

Site 2 of 2 in cluster B

WIP **1000343828**
N/A

Relative:
Lower

Actual:
447 ft.

WIP:

Region: 4
File Number: 108.0455
File Status: Historical
Staff: TB
Facility Suite: Not reported

Region: 4
File Number: 108.0456
File Status: Historical
Staff: UNIDENTIFIED
Facility Suite: Not reported

C19
NNW
< 1/8
0.092 mi.
485 ft.

PLASTECH TRANSPARENCIES
5108 AZUSA CANYON RD
IRWINDALE, CA 91706

Site 1 of 3 in cluster C

WIP **S106766482**
N/A

Relative:
Higher

Actual:
453 ft.

WIP:

Region: 4
File Number: 108.0460
File Status: Historical
Staff: DRASMUSS
Facility Suite: Not reported

C20 **IMPERIAL HORIZON** **WIP** **S106766346**
NNW **5116 AZUSA CANYON RD** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.092 mi.
485 ft. **Site 2 of 3 in cluster C**

Relative:
Higher

Actual:
453 ft.

WIP:
Region: 4
File Number: 108.0202
File Status: **Not reported**
Staff: UNIDENTIFIED
Facility Suite: Not reported

D21 **ADVANCE MARINE & DEVELOPMENT** **WIP** **S106766480**
SSW **4954 AZUSA CANYON RD** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.099 mi.
525 ft. **Site 1 of 5 in cluster D**

Relative:
Lower

Actual:
446 ft.

WIP:
Region: 4
File Number: 108.0457
File Status: **Historical**
Staff: TB
Facility Suite: Not reported

D22 **EDR Hist Auto** **1015519465**
SSW **4954 AZUSA CANYON RD** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.099 mi.
525 ft. **Site 2 of 5 in cluster D**

Relative:
Lower

Actual:
446 ft.

EDR Historical Auto Stations:

Name: SAMS FOREIGN & DOMESTIC AUTO CENTER
Year: 1999
Address: 4954 AZUSA CANYON RD

Name: SAMS FOREIGN & DOM AUTO CTR
Year: 2004
Address: 4954 AZUSA CANYON RD

Name: SAMS FOREIGN & DOMESTIC AUTO CENTER
Year: 2007
Address: 4954 AZUSA CANYON RD

Name: SAMS FOREIGN & DOM AUTO CENTER
Year: 2008
Address: 4954 AZUSA CANYON RD

Name: SAMS FOREIGN & DOMESTIC AUTO CENTER
Year: 2009
Address: 4954 AZUSA CANYON RD

Name: SAMS FOREIGN & DOMESTIC AUTO
Year: 2010
Address: 4954 AZUSA CANYON RD

Name: SAMS FOREIGN & DOMESTIC AUTO CENTER

(Continued) **1015519465**

Year: 2011
Address: 4954 AZUSA CANYON RD

Name: SAMS FOREIGN & DOMESTIC AUTO CENTER
Year: 2012
Address: 4954 AZUSA CANYON RD

C23 **SAM P. WALLACE COMPANY, INC.** **HIST UST** **U001568800**
NNW **5115 AZUSA CANYON RD** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.105 mi.
554 ft. **Site 3 of 3 in cluster C**

Relative:
Higher

Actual:
453 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000050882
Facility Type:	Other
Other Type:	FABRICATION SHOP
Contact Name:	WILLIAM D. WILHITE
Telephone:	8189606431
Owner Name:	N.G. FINANCIAL CORPORATION
Owner Address:	3660 WILSHIRE BLVD. PENTHOUSE
Owner City,St,Zip:	LOS ANGELES, CA 90010
Total Tanks:	0002
Tank Num:	001
Container Num:	001
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	0002
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	6
Leak Detection:	Visual

D24 **ALBERT C. CLEGG & SONS** **WIP** **S106766958**
SSW **4945 AZUSA CANYON RD** **N/A**
< 1/8 **BALDWIN PARK, CA 91706**
0.112 mi.
590 ft. **Site 3 of 5 in cluster D**

Relative:
Lower

Actual:
445 ft.

WIP:

Region:	4
File Number:	108.1130
File Status:	**Not reported**
Staff:	UNIDENTIFIED

ALBERT C. CLEGG & SONS (Continued) **S106766958**

Facility Suite: Not reported

D25 **RODRIGUEZ TRUCKING, J. G.** **HIST UST** **U001569001**
SSW **4938 AZUSA CANYON RD** **WIP** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.113 mi.
599 ft. **Site 4 of 5 in cluster D**

Relative:
Lower

Actual:
446 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000002978
Facility Type:	Other
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	7146216098
Owner Name:	JORGE GONZALO RODRIGUEZ
Owner Address:	162. FAIRFIELD DR. CLAREMONT
Owner City,St,Zip:	CLAREMONT, CA 91711
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	1967
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1967
Tank Capacity:	00000500
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

WIP:

Region:	4
File Number:	108.0454
File Status:	**Historical**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

D26 **RODRIQUEZ TRUCKING** **LUST** **S106024788**
SSW **4938 AZUSA CANYON RD** **LOS ANGELES CO. HMS** **N/A**
< 1/8 **IRWINDALE, CA 91706**
0.113 mi.
599 ft. **Site 5 of 5 in cluster D**

Relative:
Lower

Actual:
446 ft.

LUST:

Region:	STATE
Global Id:	T10000000418
Latitude:	34.1026169318283
Longitude:	-117.942616877246
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	10/21/2008
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	JR
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-16981
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T10000000418
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T10000000418
Contact Type:	Regional Board Caseworker
Contact Name:	JAMES RYAN
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	West 4th Street, Suite 200
City:	LOS ANGELES
Email:	jamesw.ryan@waterboards.ca.gov
Phone Number:	2135766711

Status History:

Global Id:	T10000000418
Status:	Open - Case Begin Date
Status Date:	10/21/2008

Global Id:	T10000000418
Status:	Open - Site Assessment
Status Date:	10/21/2008

Regulatory Activities:

Global Id:	T10000000418
Action Type:	RESPONSE
Date:	04/30/2016
Action:	Soil and Water Investigation Report

RODRIQUEZ TRUCKING (Continued) **S106024788**

Global Id: T10000000418
Action Type: ENFORCEMENT
Date: 03/18/2015
Action: Referral to Regional Board

Global Id: T10000000418
Action Type: ENFORCEMENT
Date: 01/27/2016
Action: Health and Safety Code Section 25296.10(c)

Global Id: T10000000418
Action Type: RESPONSE
Date: 05/17/2015
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T10000000418
Action Type: ENFORCEMENT
Date: 07/01/2013
Action: Referral to Other State Agency

Global Id: T10000000418
Action Type: ENFORCEMENT
Date: 06/17/2015
Action: Health and Safety Code Section 25296.10(c)

Global Id: T10000000418
Action Type: RESPONSE
Date: 02/29/2016
Action: Other Report / Document

Global Id: T10000000418
Action Type: ENFORCEMENT
Date: 04/02/2015
Action: Staff Letter

Global Id: T10000000418
Action Type: Other
Date: 08/14/2001
Action: Leak Discovery

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 015531-016981
Facility Type: 1
Facility Status: Removed
Area: 3S
Permit Number: 000323486
Permit Status: Removed

Region: LA
Permit Category: I
Facility Id: 015531-043683
Facility Type: 01
Facility Status: Permit
Area: 3S

RODRIQUEZ TRUCKING (Continued) **S106024788**

Permit Number: 000431363
Permit Status: Permit

27
NNW
1/8-1/4
0.128 mi.
677 ft.

ORECO DUCT SYSTEMS, INC. **WIP** **S106766960**
5119 AZUSA CANYON RD **N/A**
BALDWIN PARK, CA 91706

Relative:
Higher

Actual:
454 ft.

WIP:
Region: 4
File Number: 108.1134
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

28
East
1/8-1/4
0.157 mi.
829 ft.

CALIFORNIA COMMUNITY NEWS **AST** **A100418120**
5091 004TH ST **N/A**
IRWINDALE, CA 91706

Relative:
Lower

Actual:
394 ft.

AST:
Certified Unified Program Agencies: Not reported
Owner: TRIBUNE PUBLISHING
Total Gallons: Not reported
CERSID: 10285027
Facility ID: LACoFA0033116
Business Name: CALIFORNIA COMMUNITY NEWS
Phone: 626-472-5200
Fax: Not reported
Mailing Address: 5091 4TH STREET
Mailing Address City: IRWINDALE
Mailing Address State: CA
Mailing Address Zip Code: 91706
Operator Name: CALIFORNIA COMMUNITY NEWS
Operator Phone: 626-472-5200
Owner Phone: (213) 222-9100
Owner Mail Address: 435 NORTH MICHIGAN AVENUE
Owner State: IL
Owner Zip Code: 60611
Owner Country: United States
Property Owner Name: TRIBUNE REAL ESTATE HOLDINGS, LLC
Property Owner Phone: Not reported
Property Owner Mailing Address: 2029 CENTURY PARK EAST, SUITE 2620
Property Owner City: LOS ANGELES
Property Owner Stat : CA
Property Owner Zip Code: 90067
Property Owner Country: United States
EPAID: CAL000267478

E29 **NELSON DESIGN & FABRICATION** **WIP** **S106766961**
NNW **5143 AZUSA CANYON RD** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.160 mi.
846 ft. **Site 1 of 11 in cluster E**

Relative:
Higher

Actual:
456 ft.

WIP:
Region: 4
File Number: 108.1135
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: Not reported

E30 **J C CANVAS** **WIP** **S106766349**
NNW **5145 AZUSA CANYON RD** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.161 mi.
852 ft. **Site 2 of 11 in cluster E**

Relative:
Higher

Actual:
456 ft.

WIP:
Region: 4
File Number: 108.0210
File Status: **Historical**
Staff: DRASMUSS
Facility Suite: Not reported

E31 **TOM CHATSUWAN STRETCHED ART** **WIP** **S106766962**
NNW **5145 AZUSA CANYON RD** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.161 mi.
852 ft. **Site 3 of 11 in cluster E**

Relative:
Higher

Actual:
456 ft.

WIP:
Region: 4
File Number: 108.1136
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: Not reported

F32 **CM2 COMPANY INC** **SWEEPS UST** **S106924741**
SSW **4926 AZUSA CANYON** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.162 mi.
854 ft. **Site 1 of 4 in cluster F**

Relative:
Lower

Actual:
442 ft.

SWEEPS UST:
Status: Active
Comp Number: 15819
Number: 1
Board Of Equalization: Not reported
Referral Date: 01-04-91
Action Date: 01-04-91
Created Date: 01-04-91
Owner Tank Id: 1
SWRCB Tank Id: 19-000-015819-000001
Tank Status: A
Capacity: 6000

CM2 COMPANY INC (Continued) **S106924741**

Active Date:	01-04-91
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	2
Status:	Active
Comp Number:	15819
Number:	1
Board Of Equalization:	Not reported
Referral Date:	01-04-91
Action Date:	01-04-91
Created Date:	01-04-91
Owner Tank Id:	2
SWRCB Tank Id:	19-000-015819-000002
Tank Status:	A
Capacity:	6000
Active Date:	01-04-91
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

F33 **MALCOLM DRILLING CO INC** **RCRA-SQG** **1000595938**
SSW **4926 N AZUSA CANYON RD** **FINDS** **CAD983598962**
1/8-1/4 **IRWINDALE, CA 91706** **EMI**
0.162 mi. **LOS ANGELES CO. HMS**
854 ft. **Site 2 of 4 in cluster F** **ECHO**

Relative:
Lower

Actual:
442 ft.

RCRA-SQG:

Date form received by agency:	10/21/2004
Facility name:	MALCOLM DRILLING CO INC
Facility address:	4926 N AZUSA CANYON RD IRWINDALE, CA 91706
EPA ID:	CAD983598962
Contact:	MICHAEL R BRASHEAR
Contact address:	4926 N AZUSA CANYON RD IRWINDALE, CA 91706
Contact country:	US
Contact telephone:	626-337-8131
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	MALCOLM
Owner/operator address:	4926 N AZUSA CYN RD IRWINDALE, CA 91706
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner

MALCOLM DRILLING CO INC (Continued) **1000595938**

Owner/Op start date: 03/01/1997
Owner/Op end date: Not reported

Owner/operator name: MALCOLM DRILLING CO INC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/01/1997
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

Historical Generators:
Date form received by agency: 07/17/1992
Site name: C M Z TRUCKING CO
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002855955

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

MALCOLM DRILLING CO INC (Continued) **1000595938**

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	77893
Air District Name:	SC
SIC Code:	5
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	I
Facility Id:	008649-025562
Facility Type:	01
Facility Status:	Permit
Area:	3S
Permit Number:	000015101
Permit Status:	Permit

Region:	LA
Permit Category:	T
Facility Id:	008649-026668
Facility Type:	0
Facility Status:	Removed
Area:	3S
Permit Number:	000240999
Permit Status:	Removed

ECHO:

Envid:	1000595938
Registry ID:	110002855955
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002855955

F34 **MALCOLM DRILLING CO INC** **UST** **U004049527**
SSW **4926 AZUSA CANYON RD** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.162 mi.
854 ft. **Site 3 of 4 in cluster F**

Relative:
Lower

Actual:
442 ft.

UST:

Facility ID:	26668
Permitting Agency:	LOS ANGELES COUNTY
Latitude:	34.103583
Longitude:	-117.940484

F35 **CMZ COMPANY** **LOS ANGELES CO. HMS** **U002282001**
SSW **4926 N AZUSA CANYON RD** **WIP** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.162 mi.
854 ft. **Site 4 of 4 in cluster F**

Relative:
Lower

Actual:
442 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 008649-015819
Facility Type: 0
Facility Status: Closed
Area: 3S
Permit Number: 00006018T
Permit Status: Closed

Region: LA
Permit Category: I
Facility Id: 008649-I15819
Facility Type: 01
Facility Status: Closed
Area: 3S
Permit Number: 00010767C
Permit Status: Closed

Region: LA
Permit Category: I
Facility Id: 008649-I15819
Facility Type: 01
Facility Status: Closed
Area: 3S
Permit Number: 000139114
Permit Status: Closed

WIP:
Region: 4
File Number: 108.0453
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

E36 **MITCH'S AUTO** **WIP** **S100940211**
NNW **5151 AZUSA CANYON RD** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.164 mi.
868 ft. **Site 4 of 11 in cluster E**

Relative:
Higher

Actual:
456 ft.

WIP:
Region: 4
File Number: 108.1138
File Status: Historical
Staff: UNIDENTIFIED
Facility Suite: Not reported

E37 **F. M. DIE** **WIP** **S106766963**
NNW **5153 AZUSA CANYON RD** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.166 mi.
874 ft. **Site 5 of 11 in cluster E**

Relative:
Higher

Actual:
456 ft.

WIP:
Region: 4
File Number: 108.1139
File Status: Historical
Staff: TB
Facility Suite: Not reported

E38 **C. O. X.** **WIP** **S106766964**
NNW **5155 AZUSA CANYON RD** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.166 mi.
879 ft. **Site 6 of 11 in cluster E**

Relative:
Higher

Actual:
456 ft.

WIP:
Region: 4
File Number: 108.1140
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

E39 **TOMCO PRODUCTS** **WIP** **S106766965**
NNW **5157 AZUSA CANYON RD** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.168 mi.
885 ft. **Site 7 of 11 in cluster E**

Relative:
Higher

Actual:
456 ft.

WIP:
Region: 4
File Number: 108.1141
File Status: Historical
Staff: TB
Facility Suite: Not reported

G40 **LA CO FD FIRE STA #048** **SWEEPS UST** **S102063252**
NNE **15546 ARROW HWY** **HIST UST** **N/A**
1/8-1/4 **IRWINDALE, CA 91706** **LOS ANGELES CO. HMS**
0.169 mi.
890 ft. **Site 1 of 2 in cluster G**

Relative:
Higher

Actual:
459 ft.

SWEEPS UST:
Status: Active
Comp Number: 12516
Number: 9
Board Of Equalization: 44-009793
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-012516-000001
Tank Status: A
Capacity: Not reported

LA CO FD FIRE STA #048 (Continued) **S102063252**

Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 1

HIST UST:
File Number: 0002746C
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002746C.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 012385-012516
Facility Type: 0
Facility Status: Removed
Area: 3S
Permit Number: 00004273T
Permit Status: Removed

E41 **NICKS CUSTOM WELDING** **WIP** **S106766966**
NNW **5163 AZUSA CANYON RD** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.171 mi.
901 ft. **Site 8 of 11 in cluster E**

Relative:
Higher

Actual:
456 ft.

WIP:
Region: 4
File Number: 108.1142
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

42
NNW
1/8-1/4
0.171 mi.
903 ft.

STUART TOOL SERVICE CENTER
15426 E ARROW HWY
BALDWIN PARK, CA 91706

WIP **S106766375**
N/A

Relative:
Higher

Actual:
456 ft.

WIP:
Region: 4
File Number: 108.0265
File Status: Historical
Staff: WLIU
Facility Suite: Not reported

E43
NNW
1/8-1/4
0.172 mi.
907 ft.

OCCUPANT
5165 AZUSA CANYON RD
BALDWIN PARK, CA 91706

Site 9 of 11 in cluster E

WIP **S106766347**
N/A

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.0207
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

E44
NNW
1/8-1/4
0.173 mi.
912 ft.

OCCUPANT
5167 AZUSA CANYON RD
BALDWIN PARK, CA 91706

Site 10 of 11 in cluster E

WIP **S106766348**
N/A

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.0208
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

E45
NNW
1/8-1/4
0.174 mi.
918 ft.

CALIFORNIA BOWLING SHIRT
5169 AZUSA CANYON RD
BALDWIN PARK, CA 91706

Site 11 of 11 in cluster E

WIP **S106766967**
N/A

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1143
File Status: Historical
Staff: DRASMUSS
Facility Suite: Not reported

H46 **HARPENG MATCH PLATE** **WIP** **S106766478**
South **4910 AZUSA CANYON RD** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91750**
0.175 mi.
924 ft. **Site 1 of 2 in cluster H**

Relative:
Lower

Actual:
445 ft.

WIP:
Region: 4
File Number: 108.0452
File Status: Historical
Staff: DRASMUSS
Facility Suite: Not reported

H47 **HARPENG MATCH PLATE** **WIP** **S106766477**
South **4910 AZUSA CANYON RD** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.175 mi.
924 ft. **Site 2 of 2 in cluster H**

Relative:
Lower

Actual:
445 ft.

WIP:
Region: 4
File Number: 108.0451
File Status: Historical
Staff: PAR
Facility Suite: Not reported

G48 **FIRE STATION #48** **HIST UST** **U001568752**
NNE **15546 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.184 mi.
971 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
461 ft.

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000034222
Facility Type: Other
Other Type: FIRE STATION
Contact Name: Not reported
Telephone: 2132672242
Owner Name: L.A. COUNTY MECHANICAL DEPARTM
Owner Address: 1100 N. EASTERN AVE.
Owner City,St,Zip: LOS ANGELES, CA 90063
Total Tanks: 0001

Tank Num: 001
Container Num: #1
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

I49 **NO FRILLS TRUCKING INC.** **WIP** **S106766946**
NNW **15480 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.191 mi.
1009 ft. **Site 1 of 14 in cluster I**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1110
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: 205

I50 **GIANGREGORIO CONSTRUCTION** **WIP** **S106766947**
NNW **15480 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.191 mi.
1009 ft. **Site 2 of 14 in cluster I**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1111
File Status: **Not reported**
Staff: UNIDENTIFIED
Facility Suite: 212

I51 **NLE, INC.** **WIP** **S106766949**
NNW **15480 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.191 mi.
1009 ft. **Site 3 of 14 in cluster I**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1114
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: 216

I52 **NO FRILLS TRUCKING** **WIP** **S106766945**
NNW **15480 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.191 mi.
1009 ft. **Site 4 of 14 in cluster I**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1109
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: 205

I53 **ELEKTRA IND SUPPLY INC.** **WIP** **S106766948**
NNW **15480 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.191 mi.
1009 ft. **Site 5 of 14 in cluster I**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1112
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

I54 **DBEV ENVIRONMENTAL SERVICES** **RCRA NonGen / NLR** **1000594552**
NNW **15480 ARROW HWY STE 207** **FINDS** **CAD983583931**
1/8-1/4 **BALDWIN PARK, CA 91706** **ECHO**
0.191 mi.
1009 ft. **Site 6 of 14 in cluster I**

Relative:
Higher

Actual:
457 ft.

RCRA NonGen / NLR:
Date form received by agency: 07/05/1991
Facility name: DBEV ENVIRONMENTAL SERVICES
Facility address: 15480 ARROW HWY STE 207
BALDWIN PARK, CA 91706
EPA ID: CAD983583931
Mailing address: ARROW HWY STE 207
BALDWIN PARK, CA 91706
Contact: DWIGHT HIGGS
Contact address: 15480 ARROW HWY STE 207
BALDWIN PARK, CA 91706
Contact country: US
Contact telephone: (818) 960-2211
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: DWIGHT ANTHONY HIGGS
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

DBEV ENVIRONMENTAL SERVICES (Continued) **1000594552**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002845501

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

Envid:	1000594552
Registry ID:	110002845501
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002845501

I55 **OCCUPANT** **WIP** **S107257165**
NNW **15472 E ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.194 mi.
1022 ft. **Site 7 of 14 in cluster I**

Relative:
Higher

Actual:
457 ft.

WIP:

Region:	4
File Number:	108.0271
File Status:	**Not reported**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

J56 **A-ARTISTIC PRINTING** **WIP** **S106766419**
NNE **15558 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.194 mi.
1024 ft. **Site 1 of 9 in cluster J**

Relative: WIP:
Higher Region: 4
File Number: 108.0333
Actual: **File Status:** **Historical**
462 ft. Staff: UNIDENTIFIED
Facility Suite: Not reported

J57 **A. J. BREWER SPECILITIES** **WIP** **S106766418**
NNE **15558 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.194 mi.
1024 ft. **Site 2 of 9 in cluster J**

Relative: WIP:
Higher Region: 4
File Number: 108.0332
Actual: **File Status:** **Historical**
462 ft. Staff: TB
Facility Suite: D

J58 **CHEZ CARRIE CATERING** **WIP** **S106766417**
NNE **15556 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.194 mi.
1024 ft. **Site 3 of 9 in cluster J**

Relative: WIP:
Higher Region: 4
File Number: 108.0331
Actual: **File Status:** **Historical**
462 ft. Staff: TB
Facility Suite: C

J59 **SAAVEDRA WOOD PROD & CONSTR.** **WIP** **S106766372**
NNE **15560 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.194 mi.
1024 ft. **Site 4 of 9 in cluster J**

Relative: WIP:
Higher Region: 4
File Number: 108.0260
Actual: **File Status:** **Not reported**
462 ft. Staff: UNIDENTIFIED
Facility Suite: A/B

J60 **PLASTECH** **WIP** **S106766420**
NNE **15558 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.194 mi.
1024 ft. **Site 5 of 9 in cluster J**

Relative:
Higher

Actual:
462 ft.

WIP:
Region: 4
File Number: 108.0335
File Status: **Historical**
Staff: TB
Facility Suite: B

J61 **PLASTECH TRANSPARENCIES** **WIP** **S106766416**
NNE **15554 E ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.194 mi.
1024 ft. **Site 6 of 9 in cluster J**

Relative:
Higher

Actual:
462 ft.

WIP:
Region: 4
File Number: 108.0330
File Status: **Historical**
Staff: DRASMUSS
Facility Suite: A

J62 **JENDEN WEST** **WIP** **S106766371**
NNE **15556 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.194 mi.
1024 ft. **Site 7 of 9 in cluster J**

Relative:
Higher

Actual:
462 ft.

WIP:
Region: 4
File Number: 108.0258
File Status: **Not reported**
Staff: UNIDENTIFIED
Facility Suite: Not reported

J63 **CARTER'S METAL FABRICATORS INC** **WIP** **S106766421**
NNE **15560 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.194 mi.
1024 ft. **Site 8 of 9 in cluster J**

Relative:
Higher

Actual:
462 ft.

WIP:
Region: 4
File Number: 108.0336
File Status: **Historical**
Staff: DKOO
Facility Suite: C&D

I64 **ACELCO** **RCRA-SQG** **1000596283**
NNW **15470 ARROW HWY** **FINDS** **CAD983602483**
1/8-1/4 **BALDWIN PARK, CA 91706** **ECHO**
0.194 mi.
1026 ft. **Site 8 of 14 in cluster I**

Relative:
Higher

Actual:
457 ft.

RCRA-SQG:

Date form received by agency:	08/20/1991
Facility name:	ACELCO
Facility address:	15470 ARROW HWY BALDWIN PARK, CA 91706
EPA ID:	CAD983602483
Mailing address:	ARROW HWY BALDWIN PARK, CA 91706
Contact:	DON BILLINGS
Contact address:	15470 ARROW HWY BALDWIN PARK, CA 91706
Contact country:	US
Contact telephone:	(818) 856-1581
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	RUDY THOMPSON
Owner/operator address:	15480 ARROW HWY STE 208 BALDWIN PARK, CA 91706
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

ACELCO (Continued) **1000596283**

FINDS:

Registry ID: 110002858596

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1000596283
Registry ID: 110002858596
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002858596

I65 **OCCUPANT** **WIP** **S107257164**
NNW **15470 E ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.194 mi.
1026 ft. **Site 9 of 14 in cluster I**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.0270
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: Not reported

I66 **OCCUPANT** **WIP** **S107257163**
NNW **15468 E ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.195 mi.
1029 ft. **Site 10 of 14 in cluster I**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.0269
File Status: **Not reported**
Staff: UNIDENTIFIED
Facility Suite: Not reported

I67 **WARSAW ENGINEERING, INC.** **WIP** **S106766944**
NNW **15468 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.195 mi.
1029 ft. **Site 11 of 14 in cluster I**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1106
File Status: **Historical**
Staff: TB
Facility Suite: Not reported

I68 **STUART'S TOOL SERVICE CNTR.** **WIP** **S106766943**
NNW **15464 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.196 mi.
1037 ft. **Site 12 of 14 in cluster I**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1105
File Status: **Historical**
Staff: TB
Facility Suite: Not reported

I69 **THE 3 AMINGOS TIRE SHOP** **WIP** **S106766376**
NNW **15460 E ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.198 mi.
1045 ft. **Site 13 of 14 in cluster I**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.0266
File Status: **Historical**
Staff: DKOO
Facility Suite: Not reported

I70 **ZOLA JOHN C LABORATORIES** **RCRA-SQG** **1000142747**
NNW **15460 ARROW HWY** **FINDS** **CAD980881049**
1/8-1/4 **BALDWIN PARK, CA 91706** **ECHO**
0.198 mi.
1045 ft. **Site 14 of 14 in cluster I**

Relative:
Higher

Actual:
457 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: ZOLA JOHN C LABORATORIES
Facility address: 15460 ARROW HWY
BALDWIN PARK, CA 91706
EPA ID: CAD980881049
Mailing address: ARROW HWY
BALDWIN PARK, CA 91706
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US

ZOLA JOHN C LABORATORIES (Continued) **1000142747**

Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: KATHLEEN L ZOLA
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002672867

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

ZOLA JOHN C LABORATORIES (Continued) **1000142747**

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

Envid:	1000142747
Registry ID:	110002672867
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002672867

K71 **JASCO WOOD PRODUCTS** **SLIC S106484685**
North **15519 ARROW HWY.** **EMI N/A**
1/8-1/4 **IRWINDALE, CA 91706** **WIP**
0.200 mi.
1057 ft. **Site 1 of 4 in cluster K**

Relative: Higher

Actual: 459 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	10/29/2014
Global Id:	SL603798879
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.107067
Longitude:	-117.941999
Case Type:	Cleanup Program Site
Case Worker:	GJH
Local Agency:	Not reported
RB Case Number:	108.0325
File Location:	Not reported
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	59317
Air District Name:	SC
SIC Code:	2491
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1993
County Code:	19

JASCO WOOD PRODUCTS (Continued) **S106484685**

Air Basin:	SC
Facility ID:	59317
Air District Name:	SC
SIC Code:	2491
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1993
County Code:	19
Air Basin:	SC
Facility ID:	81663
Air District Name:	SC
SIC Code:	2599
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	59317
Air District Name:	SC
SIC Code:	2491
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	81663
Air District Name:	SC
SIC Code:	2599
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

JASCO WOOD PRODUCTS (Continued) **S106484685**

Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

WIP:
Region: 4
File Number: 108.0325
File Status: Backlog
Staff: UNIDENTIFIED
Facility Suite: Not reported

L72 **ARROW PIPE & SUPPLY** **SWEEPS UST** **S105036321**
North **15563 ARROW HWY** **HIST UST** **N/A**
1/8-1/4 **IRWINDALE, CA 91706** **LOS ANGELES CO. HMS**
0.201 mi.
1061 ft. **Site 1 of 2 in cluster L**

Relative:
Higher

Actual:
461 ft.

SWEEPS UST:
Status: Active
Comp Number: 11457
Number: 9
Board Of Equalization: Not reported
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
File Number: 00026540
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026540.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported

ARROW PIPE & SUPPLY (Continued) **S105036321**

Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 011420-011457
Facility Type: Not reported
Facility Status: Removed
Area: 3S
Permit Number: Not reported
Permit Status: Not reported

K73 **DIA-CHROME INC.** **WIP** **S106766413**
North **15509 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.202 mi.
1064 ft. **Site 2 of 4 in cluster K**

Relative:
Higher

Actual:
459 ft.

WIP:
Region: 4
File Number: 108.0323
File Status: Historical
Staff: TB
Facility Suite: Not reported

K74 **HARRY HILL IMPORTS** **RCRA-SQG** **1000372329**
North **15507 ARROW HWY** **FINDS** **CAD981165905**
1/8-1/4 **IRWINDALE, CA 91706** **ECHO**
0.202 mi.
1066 ft. **Site 3 of 4 in cluster K**

Relative:
Higher

Actual:
459 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: HARRY HILL IMPORTS
Facility address: 15507 ARROW HWY
IRWINDALE, CA 91706
EPA ID: CAD981165905
Mailing address: ARROW HWY
IRWINDALE, CA 91706
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous

HARRY HILL IMPORTS (Continued) **1000372329**

waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	BERNIE BIANCO
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002680108

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HARRY HILL IMPORTS (Continued) **1000372329**

ECHO:
Envid: 1000372329
Registry ID: 110002680108
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002680108

K75 **HARRY HILL VOLKSWAGEN, INC.** **WIP** **S106767372**
North **15507 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.202 mi.
1066 ft. **Site 4 of 4 in cluster K**

Relative:
Higher

Actual:
459 ft.

WIP:
Region: 4
File Number: 108.7171
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

M76 **U.S. RENTALS** **LUST** **S101295582**
NW **15402 ARROW HWY E** **HIST CORTESE** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.203 mi.
1071 ft. **Site 1 of 7 in cluster M**

Relative:
Higher

Actual:
456 ft.

LUST:
Region: STATE
Global Id: T0603792260
Latitude: 34.106972
Longitude: -117.944714
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 07/16/2009
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: AJL
Local Agency: LOS ANGELES COUNTY
RB Case Number: I-11270A
LOC Case Number: 011251-011270
File Location: Regional Board
Potential Media Affect: Under Investigation
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603792260
Contact Type: Local Agency Caseworker
Contact Name: SAM STEVENS
Organization Name: LOS ANGELES COUNTY
Address: 900 S. FREMONT AVE.
City: ALHAMBRA
Email: Not reported
Phone Number: 6264583507

Global Id: T0603792260
Contact Type: Regional Board Caseworker

U.S. RENTALS (Continued) **S101295582**

Contact Name: AHMAD J. LAMAA
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 West 4th Street Suite 200
City: Los Angeles
Email: alamaa@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603792260
Status: Open - Case Begin Date
Status Date: 08/04/2002

Global Id: T0603792260
Status: Open - Referred
Status Date: 04/23/2009

Global Id: T0603792260
Status: Open - Site Assessment
Status Date: 06/15/2005

Global Id: T0603792260
Status: Open - Site Assessment
Status Date: 07/16/2009

Regulatory Activities:
Global Id: T0603792260
Action Type: ENFORCEMENT
Date: 07/16/2009
Action: Staff Letter

Global Id: T0603792260
Action Type: RESPONSE
Date: 10/18/2005
Action: Site Assessment Report

Global Id: T0603792260
Action Type: Other
Date: 08/04/2002
Action: Leak Discovery

Global Id: T0603792260
Action Type: ENFORCEMENT
Date: 04/27/2009
Action: Referral to Regional Board - #c607469

Global Id: T0603792260
Action Type: ENFORCEMENT
Date: 05/23/2016
Action: Health and Safety Code Section 25296.10(c)

Global Id: T0603792260
Action Type: RESPONSE
Date: 04/30/2009
Action: Correspondence

Global Id: T0603792260

U.S. RENTALS (Continued) **S101295582**

Action Type: RESPONSE
Date: 08/17/2009
Action: Other Report / Document

Global Id: T0603792260
Action Type: RESPONSE
Date: 07/23/2016
Action: Other Report / Document

Global Id: T0603792260
Action Type: Other
Date: 12/09/2002
Action: Leak Reported

Region: STATE
Global Id: T0603703774
Latitude: 34.106505
Longitude: -117.944682
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/08/1996
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: YR
Local Agency: LOS ANGELES COUNTY
RB Case Number: I-11270
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603703774
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603703774
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603703774
Status: Completed - Case Closed
Status Date: 07/08/1996

U.S. RENTALS (Continued) **S101295582**

Global Id: T0603703774
Status: Open - Case Begin Date
Status Date: 10/01/1987

Global Id: T0603703774
Status: Open - Site Assessment
Status Date: 04/01/1996

Regulatory Activities:
Global Id: T0603703774
Action Type: Other
Date: 10/01/1987
Action: Leak Discovery

Global Id: T0603703774
Action Type: Other
Date: 10/01/1988
Action: Leak Stopped

Global Id: T0603703774
Action Type: Other
Date: 09/08/1988
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-11270
Status: Case Closed
Substance: Diesel
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Excavate and Treat
Global ID: T0603703774
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: Not reported
Enforcement Type: Not reported
Date Leak Discovered: 10/1/1987
Date Leak First Reported: 9/8/1988
Date Leak Record Entered: Not reported
Date Confirmation Began: Not reported
Date Leak Stopped: 10/1/1988
Date Case Last Changed on Database: 7/8/1996
Date the Case was Closed: 7/8/1996
How Leak Discovered: Tank Test
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: Tank
Operator: Not reported
Water System: Not reported
Well Name: Not reported

U.S. RENTALS (Continued) **S101295582**

Approx. Dist To Production Well (ft):	446.4102223313188145119400062 3
Source of Cleanup Funding:	Tank
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	4/1/1996
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	BLANK RP
RP Address:	417 W. ALLEN AVE, SUITE 110, SAN DIMAS CA 91773
Program:	LUST
Lat/Long:	34.1069593 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-11270

M77 **ARROW EQUIP RENTAL** **SWEEPS UST** **S101618733**
NW **15402 ARROW HWY** **CA FID UST** **N/A**
1/8-1/4 **BALDWIN PARK, CA**
0.203 mi.
1071 ft. **Site 2 of 7 in cluster M**

Relative:
Higher

Actual:
456 ft.

SWEEPS UST:

Status:	Active
Comp Number:	11270
Number:	9
Board Of Equalization:	44-009207
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-011270-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported

ARROW EQUIP RENTAL (Continued) **S101618733**

Number Of Tanks: 3

Status: Active
Comp Number: 11270
Number: 9
Board Of Equalization: 44-009207
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011270-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 11270
Number: 9
Board Of Equalization: 44-009207
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-011270-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 19001861
Regulated By: UTNKA
Regulated ID: 00004886
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8180000000
Mail To: Not reported
Mailing Address: 15402 ARROW HWY
Mailing Address 2: Not reported
Mailing City,St,Zip: BALDWIN PARK
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

M78 **US RENTALS INC** **UST** **U004049014**
NW **15402 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.203 mi.
1071 ft. **Site 3 of 7 in cluster M**

Relative:
Higher

Actual:
456 ft.

UST:
Facility ID: 11270
Permitting Agency: LOS ANGELES COUNTY
Latitude: 34.107854
Longitude: -117.943333

M79 **ARROW EQUIPMENT RENTAL** **HIST UST** **U001568720**
NW **15402 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.203 mi.
1071 ft. **Site 4 of 7 in cluster M**

Relative:
Higher

Actual:
456 ft.

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000004886
Facility Type: Other
Other Type: EQUIPMENT RENTALS
Contact Name: Not reported
Telephone: 8189624468
Owner Name: ARROW EQUIPMENT RENTAL
Owner Address: 15402 E. ARROW HWY
Owner City,St,Zip: BALDWIN PARK, CA 91706
Total Tanks: 0004

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: None

Tank Num: 004

ARROW EQUIPMENT RENTAL (Continued) **U001568720**

Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

M80 **U S RENTALS 51** **RCRA NonGen / NLR** **1000595546**
NW **15402 E ARROW HWY** **FINDS** **CAD983594961**
1/8-1/4 **BALDWIN PARK, CA 91706** **ECHO**
0.203 mi.
1071 ft. **Site 5 of 7 in cluster M**

Relative:
Higher

Actual:
456 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/10/2000
Facility name:	U S RENTALS 51
Facility address:	15402 E ARROW HWY BALDWIN PARK, CA 91706
EPA ID:	CAD983594961
Contact:	DAN SWEENEY
Contact address:	1153 BERGEN PKWY STE M237 EVERGREEN, CO 80439
Contact country:	US
Contact telephone:	(303) 674-1320
Contact email:	Not reported
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	JOHN HODGMAN
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No

U S RENTALS 51 (Continued) **1000595546**

Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

FINDS:

Registry ID: 110002852878

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:

Envid:	1000595546
Registry ID:	110002852878
DFR URL:	http://echo.epa.gov/detailed_facility_report?fid=110002852878

M81 **U S RENTALS** **LOS ANGELES CO. HMS** **S102063207**
NW **15402 E ARROW HWY** **WIP** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.203 mi.
1071 ft. **Site 6 of 7 in cluster M**

Relative:
Higher

Actual:
456 ft.

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	T
Facility Id:	011251-011270
Facility Type:	0
Facility Status:	Removed
Area:	3X
Permit Number:	00002803T
Permit Status:	Removed

WIP:

Region:	4
File Number:	108.1095
File Status:	**Historical**
Staff:	DKOO
Facility Suite:	Not reported

M82 **ARROW EQUIPHENT RENTAL** **HIST UST** **S113106804**
NW **15402 ARROW HWY** **HAZNET** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.203 mi.
1071 ft. **Site 7 of 7 in cluster M**

Relative:
Higher

Actual:
456 ft.

HIST UST:

File Number:	00026537
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026537.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HAZNET:

envid:	S113106804
Year:	2010
GEPAID:	CAL000209680
Contact:	GRANT ZOLDOWSKI PE CHMM
Telephone:	3032864394
Mailing Name:	Not reported
Mailing Address:	791 E 64TH AVE
Mailing City,St,Zip:	DENVER, CO 802290000
Gen County:	Not reported
TSD EPA ID:	NVT330010000
TSD County:	Not reported
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.05
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113106804
Year:	2010
GEPAID:	CAL000209680
Contact:	GRANT ZOLDOWSKI PE CHMM
Telephone:	3032864394
Mailing Name:	Not reported
Mailing Address:	791 E 64TH AVE
Mailing City,St,Zip:	DENVER, CO 802290000

ARROW EQUIPHENT RENTAL (Continued) **S113106804**

Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Oil/water separation sludge
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 14.595
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113106804
Year: 2010
GEPAID: CAL000209680
Contact: GRANT ZOLDOWSKI PE CHMM
Telephone: 3032864394
Mailing Name: Not reported
Mailing Address: 791 E 64TH AVE
Mailing City,St,Zip: DENVER, CO 802290000
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Off-specification, aged or surplus organics
Disposal Method: Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.1
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113106804
Year: 2010
GEPAID: CAL000209680
Contact: GRANT ZOLDOWSKI PE CHMM
Telephone: 3032864394
Mailing Name: Not reported
Mailing Address: 791 E 64TH AVE
Mailing City,St,Zip: DENVER, CO 802290000
Gen County: Not reported
TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.005
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113106804
Year: 2010
GEPAID: CAL000209680
Contact: GRANT ZOLDOWSKI PE CHMM
Telephone: 3032864394
Mailing Name: Not reported
Mailing Address: 791 E 64TH AVE
Mailing City,St,Zip: DENVER, CO 802290000
Gen County: Not reported

ARROW EQUIPHENT RENTAL (Continued) **S113106804**

TSD EPA ID: TXD077603371
TSD County: Not reported
Waste Category: Organic liquids with metals (Alkaline solution (pH >= 12.5) with metals)
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.3
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
16 additional CA_HAZNET: record(s) in the EDR Site Report.

83
South
1/8-1/4
0.203 mi.
1074 ft.

UTILITY DISPOSAL COMPANY **WIP** **S106766476**
4854 AZUSA CANYON RD **N/A**
IRWINDALE, CA 91706

Relative:
Lower

Actual:
442 ft.

WIP:
Region: 4
File Number: 108.0449
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

N84
NNW
1/8-1/4
0.205 mi.
1084 ft.

KENT'S BODY WKS, KENT PIELEMEI **EMI** **S106833789**
15444 E ARROW HWY **WIP** **N/A**
BALDWIN PARK, CA 91702

Site 1 of 9 in cluster N

Relative:
Higher

Actual:
457 ft.

EMI:
Year: 1987
County Code: 19
Air Basin: SC
Facility ID: 35281
Air District Name: SC
SIC Code: 7531
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 35281
Air District Name: SC

KENT'S BODY WKS, KENT PIELEMEI (Continued) **S106833789**

SIC Code:	7532
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

WIP:

Region:	4
File Number:	108.1103
File Status:	**Historical**
Staff:	DKOO
Facility Suite:	Not reported

N85 **KENTS BODY WORKS** **RCRA-SQG** **1000420583**
NNW **15444 ARROW HWY** **FINDS** **CAD982017279**
1/8-1/4 **BALDWIN PARK, CA 91706** **ECHO**
0.205 mi.
1084 ft. **Site 2 of 9 in cluster N**

Relative:
Higher

Actual:
457 ft.

RCRA-SQG:

Date form received by agency:	07/28/1987
Facility name:	KENTS BODY WORKS
Facility address:	15444 ARROW HWY BALDWIN PARK, CA 91706
EPA ID:	CAD982017279
Contact:	ENVIRONMENTAL MANAGER
Contact address:	15444 ARROW HWY BALDWIN PARK, CA 91760
Contact country:	US
Contact telephone:	(818) 338-4889
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	KENT PIELEMEIER

KENTS BODY WORKS (Continued) **1000420583**

Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110006476410

Environmental Interest/Information System
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ECHO:
Envid: 1000420583
Registry ID: 110006476410
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110006476410

N86 **TOMCO** **WIP** **S106766373**
NNW **15438 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.208 mi.
1098 ft. **Site 3 of 9 in cluster N**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.0261
File Status: **Historical**
Staff: DRASMUSS

TOMCO (Continued) **S106766373**

Facility Suite: Not reported

N87 **TOMCO PRODUCTS** **WIP** **S106766941**
NNW **15438 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.208 mi.
1098 ft. **Site 4 of 9 in cluster N**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1101
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

N88 **CHAPMAN APPLIANCE WAREHOUSE** **WIP** **S106766938**
NNW **15406 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.208 mi.
1100 ft. **Site 5 of 9 in cluster N**

Relative:
Higher

Actual:
457 ft.

WIP:
Region: 4
File Number: 108.1096
File Status: Historical
Staff: TB
Facility Suite: Not reported

N89 **KNUDTSON REFINISHING** **FINDS** **1005775601**
NNW **15434 ARROW HWY** **EMI** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706** **WIP**
0.210 mi.
1108 ft. **Site 6 of 9 in cluster N**

Relative:
Higher

Actual:
457 ft.

FINDS:

Registry ID: 110002422879

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2511
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	5

KNUDTSON REFINISHING (Continued) **1005775601**

Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1993
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

KNUDTSON REFINISHING (Continued) **1005775601**

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262

KNUDTSON REFINISHING (Continued) **1005775601**

Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2002
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0

KNUDTSON REFINISHING (Continued) **1005775601**

NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2004
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.2452
Reactive Organic Gases Tons/Yr:	1.24
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2005
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.3624
Reactive Organic Gases Tons/Yr:	.35951778
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2006

KNUDTSON REFINISHING (Continued) **1005775601**

County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.7391197489624455916
Reactive Organic Gases Tons/Yr:	.734
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2007
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.7391197489624455916
Reactive Organic Gases Tons/Yr:	.734
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2008
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	1751
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.2326696164081250904
Reactive Organic Gases Tons/Yr:	.23
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2012
County Code:	19
Air Basin:	SC
Facility ID:	47866
Air District Name:	SC
SIC Code:	2262
Air District Name:	SOUTH COAST AQMD

KNUDTSON REFINISHING (Continued) **1005775601**

Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.35538751957
Reactive Organic Gases Tons/Yr: 0.22995
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

WIP:
Region: 4
File Number: 108.1100
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

N90 **OCCUPANT** **WIP** **S106766374**
NNW **15434 ARROW HWY** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.210 mi.
1108 ft. **Site 7 of 9 in cluster N**

Relative: Higher
Actual: 457 ft.

WIP:
Region: 4
File Number: 108.0263
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

N91 **J. D. PRECISION** **WIP** **S106766940**
NNW **15430 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.212 mi.
1118 ft. **Site 8 of 9 in cluster N**

Relative: Higher
Actual: 457 ft.

WIP:
Region: 4
File Number: 108.1098
File Status: Historical
Staff: PAR
Facility Suite: Not reported

N92 **P & M AUTOMOTIVE** **WIP** **S106766939**
NNW **15428 ARROW HWY** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.213 mi.
1124 ft. **Site 9 of 9 in cluster N**

Relative: Higher
Actual: 457 ft.

WIP:
Region: 4
File Number: 108.1097
File Status: Historical
Staff: WLIU

P & M AUTOMOTIVE (Continued) **S106766939**

Facility Suite: Not reported

93
West
1/8-1/4
0.213 mi.
1124 ft.

GLENDORA TREE SURGERY, INC. **WIP** **S106767108**
5040 LANTE ST **N/A**
BALDWIN PARK, CA 91706

Relative:
Lower

Actual:
448 ft.

WIP:
Region: 4
File Number: 108.1357
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: Not reported

94
West
1/8-1/4
0.214 mi.
1130 ft.

NATIONAL COOLER CORP., **WIP** **S106767107**
5018 LANTE ST **N/A**
BALDWIN PARK, CA 91706

Relative:
Lower

Actual:
447 ft.

WIP:
Region: 4
File Number: 108.1356
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: Not reported

95
SSE
1/8-1/4
0.216 mi.
1138 ft.

ACTIVE AIRCRAFT WELDING **WIP** **S103661670**
4848 AZUSA CANYON RD **N/A**
IRWINDALE, CA 91706

Relative:
Lower

Actual:
444 ft.

WIP:
Region: 4
File Number: 108.0447
File Status: **Historical**
Staff: TB
Facility Suite: Not reported

Region: 4
File Number: 108.0448
File Status: **Historical**
Staff: DKOO
Facility Suite: Not reported

O96 **SORENSEN BACKHOE** **WIP** **S106767110**
WNW **5052 LANTE ST** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.217 mi.
1144 ft. **Site 1 of 2 in cluster O**

Relative:
Higher

Actual:
449 ft.

WIP:
Region: 4
File Number: 108.1359
File Status: **Historical**
Staff: UNIDENTIFIED
Facility Suite: Not reported

J97 **ARROW PIPE AND STEEL** **HIST UST** **U001568721**
NNE **15563 ARROW HWY** **NPDES** **N/A**
1/8-1/4 **IRWINDALE, CA 91706** **WIP**
0.218 mi.
1149 ft. **Site 9 of 9 in cluster J**

Relative:
Higher

Actual:
463 ft.

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000065804
Facility Type: Other
Other Type: PIPE & STEEL
Contact Name: Not reported
Telephone: 8183388110
Owner Name: ARROW HIGHWAY STEEL INC.
Owner Address: 15563 E. ARROW HIGHWAY
Owner City,St,Zip: IRWINDALE, CA 91706
Total Tanks: 0001

Tank Num: 001
Container Num: 9009954
Year Installed: 1965
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: None

NPDES:
Npdes Number: Not reported
Facility Status: Active
Agency Id: 0
Region: 4
Regulatory Measure Id: 458967
Order No: Not reported
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 4 19NEC000187
Program Type: No Exposure Certification
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 07/28/2015
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Patton Sales Corporation
Discharge Address: 15563 East Arrow Highway

ARROW PIPE AND STEEL (Continued) **U001568721**

Discharge City:	Irwindale
Discharge State:	California
Discharge Zip:	91702
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported

ARROW PIPE AND STEEL (Continued) **U001568721**

SECONDARY SIC: Not reported
TERTIARY SIC: Not reported

WIP:
Region: 4
File Number: 108.0338
File Status: Historical
Staff: UNIDENTIFIED
Facility Suite: Not reported

P98 **PHILIPS/LAU INDUSTRIES** **SWEEPS UST** **S104537864**
NNE **15601 ARROW HWY** **HIST UST** **N/A**
1/8-1/4 **IRWINDALE, CA 91706** **EMI**
0.219 mi. **LOS ANGELES CO. HMS**
1158 ft. **Site 1 of 2 in cluster P**

Relative: Higher

Actual: 464 ft.

SWEEPS UST:
Status: Active
Comp Number: 3611
Number: 9
Board Of Equalization: Not reported
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

HIST UST:
File Number: 00027D29
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027D29.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported
Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

PHILIPS/LAU INDUSTRIES (Continued) **S104537864**

Click here for Geo Tracker PDF:

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	15662
Air District Name:	SC
SIC Code:	3444
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	Not reported
Facility Id:	003491-003611
Facility Type:	Not reported
Facility Status:	Removed
Area:	3S
Permit Number:	Not reported
Permit Status:	Not reported

Region:	LA
Permit Category:	I
Facility Id:	003491-I03611
Facility Type:	09
Facility Status:	Closed
Area:	3S
Permit Number:	000008052
Permit Status:	Closed

L99 **CHASE TIRE SERVICE** **LOS ANGELES CO. HMS** **S102063251**
North **15545 E ARROW HWY** **WIP** **N/A**
1/8-1/4 **IRWINDALE, CA 91706**
0.222 mi.
1173 ft. **Site 2 of 2 in cluster L**

Relative:
Higher

Actual:
462 ft.

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	Not reported
Facility Id:	014886-015683
Facility Type:	Not reported
Facility Status:	Removed
Area:	3S
Permit Number:	Not reported
Permit Status:	Not reported

WIP:

CHASE TIRE SERVICE (Continued) **S102063251**

Region: 4
File Number: 108.0328
File Status: Historical
Staff: DRASMUSS
Facility Suite: Not reported

P100
NNE
1/8-1/4
0.237 mi.
1249 ft.

CARBIDE DIE & MGF. CO. INC. **WIP** **S106766422**
15615 E ARROW HWY **N/A**
IRWINDALE, CA 91706

Site 2 of 2 in cluster P

Relative:
Higher

Actual:
465 ft.

WIP:
Region: 4
File Number: 108.0340
File Status: Historical
Staff: DRASMUSS
Facility Suite: Not reported

101
West
1/8-1/4
0.239 mi.
1262 ft.

RAINBOW ELECTRIC **WIP** **S106767109**
5049 LANTE ST **N/A**
BALDWIN PARK, CA 91706

Relative:
Lower

Actual:
448 ft.

WIP:
Region: 4
File Number: 108.1358
File Status: Historical
Staff: UNIDENTIFIED
Facility Suite: Not reported

O102
West
1/8-1/4
0.241 mi.
1273 ft.

MARGETT BROS, INC. **WIP** **S106766401**
5057 LANTE ST **N/A**
BALDWIN PARK, CA 91706

Site 2 of 2 in cluster O

Relative:
Higher

Actual:
449 ft.

WIP:
Region: 4
File Number: 108.0307
File Status: Historical
Staff: RSK
Facility Suite: Not reported

103
WSW
1/8-1/4
0.241 mi.
1273 ft.

J & B CEMENT CONTRACTOR — **WIP** — **S106767106**
4938 LANTE ST — **N/A**
BALDWIN PARK, CA 91706

Relative:
Lower

Actual:
442 ft.

WIP:
Region: 4
File Number: 108.1353
File Status: Not reported
Staff: UNIDENTIFIED
Facility Suite: Not reported

104
WNW
1/8-1/4
0.246 mi.
1299 ft.

CUSTOM WOODWORKS — **WIP** — **S106767111**
5103 LANTE ST — **N/A**
BALDWIN PARK, CA 91706

Relative:
Higher

Actual:
449 ft.

WIP:
Region: 4
File Number: 108.1360
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

105
WNW
1/8-1/4
0.246 mi.
1299 ft.

MC CARON STEEL FABRICATION INC — **LOS ANGELES CO. HMS** — **S106669265**
5140 N LANTE ST — **WIP** — **N/A**
BALDWIN PARK, CA 91706

Relative:
Higher

Actual:
452 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 026689-036809
Facility Type: 0
Facility Status: Removed
Area: 3X
Permit Number: 000327808
Permit Status: Removed

WIP:
Region: 4
File Number: 108.1363
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

106
NE
1/8-1/4
0.247 mi.
1303 ft.

XTREME AUTO COLLISION
15629 ARROW HWY
IRWINDALE, CA 91706

HAZNET
WIP

S106766424
N/A

Relative:
Higher

Actual:
466 ft.

HAZNET:

envid:	S106766424
Year:	2013
GEPAID:	CAC002738414
Contact:	VICTOR SANCHEZ
Telephone:	6263378804
Mailing Name:	Not reported
Mailing Address:	15629 ARROW HWY
Mailing City,St,Zip:	IRWINDALE, CA 91706
Gen County:	Los Angeles
TSD EPA ID:	CAD008252405
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.0468
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

WIP:

Region:	4
File Number:	108.0342
File Status:	**Historical**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

Q107
WSW
1/8-1/4
0.248 mi.
1308 ft.

QUALITY ENGINE CENTER
15253 NUBIA ST
BALDWIN PARK, CA 91706

Site 1 of 2 in cluster Q

WIP

S106767154
N/A

Relative:
Lower

Actual:
445 ft.

WIP:

Region:	4
File Number:	108.1428
File Status:	**Historical**
Staff:	TB
Facility Suite:	Not reported

108
NW
1/8-1/4
0.249 mi.
1315 ft.

GENCO REBUILT PRODUCTS
15320 E ARROW HWY
BALDWIN PARK, CA 91706

WIP

S106766936
N/A

Relative:
Higher

Actual:
457 ft.

WIP:

Region:	4
File Number:	108.1094
File Status:	**Historical**
Staff:	DKOO
Facility Suite:	Not reported

Q109 **GEX INTERNATIONAL CORP.,** **WIP** **S106767153**
WSW **15247 NUBIA ST** **N/A**
1/8-1/4 **BALDWIN PARK, CA 91706**
0.250 mi.
1318 ft. **Site 2 of 2 in cluster Q**

Relative:
Lower

Actual:
445 ft.

WIP:
Region: 4
File Number: 108.1427
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

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110 **ATASCADERO YARD** **HIST CORTESE** **S105024235**
NNE **15627 ARROW** **N/A**
1/4-1/2 **IRWINDALE, CA 91706**
0.274 mi.
1448 ft.

Relative:
Higher

Actual:
467 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 2399

R111 **NONE** **HIST UST** **U001568808**
ENE **15744 ARROW HIGHWAY** **HIST CORTESE** **N/A**
1/4-1/2 **IRWINDALE, CA 91706** **WIP**
0.325 mi.
1714 ft. **Site 1 of 2 in cluster R**

Relative:
Higher

Actual:
464 ft.

HIST UST:
File Number: 000262ED
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000262ED.pdf
Region: STATE
Facility ID: 00000003833
Facility Type: Other
Other Type: MFG. OF CASKET SHELL
Contact Name: DAVID SHANNON
Telephone: 8183371288
Owner Name: E. M. SHANNON
Owner Address: 15744 ARROW HIGHWAY
Owner City,St,Zip: IRWINDALE, CA 91706
Total Tanks: 0002

Tank Num: 001
Container Num: 1
Year Installed: 1969
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: 1969
Tank Capacity: 00001000

NONE (Continued) **U001568808**

Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-04831

WIP:
Region: 4
File Number: 108.0358
File Status: Historical
Staff: PAR
Facility Suite: Not reported

R112 **SHANNON CASKET CO** **LUST** **S105032679**
ENE **15744 ARROW HWY E** **N/A**
1/4-1/2 **IRWINDALE, CA 91706**
0.325 mi.
1714 ft. **Site 2 of 2 in cluster R**

Relative:
Higher

Actual:
464 ft.

LUST:
Region: STATE
Global Id: T0603704656
Latitude: 34.1069223
Longitude: -117.937976
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 08/19/1996
Lead Agency: LOS ANGELES COUNTY
Case Worker: JOA
Local Agency: LOS ANGELES COUNTY
RB Case Number: R-04831
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Aviation
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603704656
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603704656

SHANNON CASKET CO (Continued) **S105032679**

Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603704656
Status:	Completed - Case Closed
Status Date:	08/19/1996

Global Id:	T0603704656
Status:	Open - Case Begin Date
Status Date:	10/03/1994

Regulatory Activities:

Global Id:	T0603704656
Action Type:	Other
Date:	10/03/1994
Action:	Leak Reported

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	R-04831	
Status:	Case Closed	
Substance:	1	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603704656	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	Not reported	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		10/3/1994
Date Leak Record Entered:	8/23/1996	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		10/3/1994
Date the Case was Closed:		8/19/1996
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Not reported	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		2218.16694400040602940707804 62

SHANNON CASKET CO (Continued) **S105032679**

Source of Cleanup Funding:	Not reported
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	SHANNON CASKET
RP Address:	5657 WASHINGTON BL E., LOS ANGELES CA 90040
Program:	LUST
Lat/Long:	34.1069223 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

S113 **L & M METAL PRODUCTS, INC.** **SLIC** **S106484710**
WNW **5108 CALMVIEW AVE** **WIP** **N/A**
1/4-1/2 **BALDWIN PARK, CA 91706**
0.327 mi.
1726 ft. **Site 1 of 2 in cluster S**

Relative:
Lower

Actual:
448 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	03/25/2015
Global Id:	SL603798909
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.103289
Longitude:	-117.946822
Case Type:	Cleanup Program Site
Case Worker:	GJH
Local Agency:	Not reported
RB Case Number:	108.1198
File Location:	Not reported
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

WIP:

Region:	4
File Number:	108.1198

L & M METAL PRODUCTS, INC. (Continued) **S106484710**

File Status: **Backlog**
Staff: UNIDENTIFIED
Facility Suite: Not reported

S114 **ARROW PARKING** **LUST** **S102060002**
West **5065 CALMVIEW AVE** **HIST CORTESE** **N/A**
1/4-1/2 **BALDWIN PARK, CA 91706** **WIP**
0.332 mi.
1755 ft. **Site 2 of 2 in cluster S**

Relative:
Lower

Actual:
447 ft.

LUST:

Region:	STATE
Global Id:	T0603705254
Latitude:	34.105051
Longitude:	-117.948238
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/04/1990
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-15598
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Aviation
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603705254
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603705254
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603705254
Status:	Completed - Case Closed
Status Date:	09/04/1990

Global Id:	T0603705254
Status:	Open - Case Begin Date
Status Date:	09/04/1990

ARROW PARKING (Continued) **S102060002**

Regulatory Activities:

Global Id:	T0603705254
Action Type:	Other
Date:	09/04/1990
Action:	Leak Reported

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	R-15598	
Status:	Case Closed	
Substance:	1	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603705254	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	ARROW HWY	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		9/4/1990
Date Leak Record Entered:	4/19/1996	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		9/4/1990
Date the Case was Closed:		9/4/1990
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Not reported	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		965.27377986185633555695128 96
Source of Cleanup Funding:		Not reported
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	ARROW PARKING	

ARROW PARKING (Continued) **S102060002**

RP Address: 5030 GAYHURST AVE, BALDWIN PARK CA 91706
Program: LUST
Lat/Long: 34.1045163 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-15598

WIP:
Region: 4
File Number: 108.1195
File Status: Historical
Staff: DKOO
Facility Suite: Not reported

115
NE
1/4-1/2
0.375 mi.
1980 ft.

Relative:
Higher

Actual:
473 ft.

SPECIALTY ORGANICS INC **SEMS-ARCHIVE** **1000171503**
5263 N FOURTH ST **RCRA-SQG** **CAD981389661**
IRWINDALE, CA 91706 **LUST**
HIST UST
HIST CORTESE
LOS ANGELES CO. HMS
NPDES
WDS
WIP

SEMS-ARCHIVE:
Site ID: 901357
EPA ID: CAD044047058
Federal Facility: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0901357
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13286160.00000
Person ID: 13003854.00000

Contact Sequence ID: 13291755.00000
Person ID: 13003858.00000

Contact Sequence ID: 13297613.00000
Person ID: 13004003.00000

SPECIALTY ORGANICS INC (Continued) **1000171503**

CERCLIS-NFRAP Assessment History:

Action:	PRELIMINARY ASSESSMENT
Date Started:	/ /
Date Completed:	12/01/87
Priority Level:	Low priority for further assessment
Action:	DISCOVERY
Date Started:	/ /
Date Completed:	07/01/84
Priority Level:	Not reported
Action:	ARCHIVE SITE
Date Started:	/ /
Date Completed:	09/01/88
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	/ /
Date Completed:	09/01/88
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information

RCRA-SQG:

Date form received by agency:	02/21/2002
Facility name:	SPECIALTY ORGANICS, INC.
Facility address:	5263 N. FOURTH STREET IRWINDALE, CA 91706
EPA ID:	CAD981389661
Contact:	JOSEPH V SERUTO
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	(626) 962-2008
Contact email:	JOSEPH_SERUTO@COMPUSERVE.COM
EPA Region:	09
Land type:	Private
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No

SPECIALTY ORGANICS INC (Continued) **1000171503**

Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/21/2002
Site name: SPECIALTY ORGANICS, INC.
Classification: Large Quantity Generator

. Waste code: 212
. Waste name: 212

. Waste code: 214
. Waste name: 214

. Waste code: 331
. Waste name: 331

. Waste code: 351
. Waste name: 351

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

. Waste code: U188
. Waste name: PHENOL

Date form received by agency: 09/01/1996
Site name: SPECIALTY ORGANICS INC
Classification: Small Quantity Generator

Date form received by agency: 02/19/1986
Site name: SPECIALTY ORGANICS INC
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: F - 262.20-23.B
Area of violation: Generators - General
Date violation determined: 08/20/2001

SPECIALTY ORGANICS INC (Continued) **1000171503**

Date achieved compliance: 01/08/2002
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 10/05/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.20-23.B
Area of violation: Generators - General
Date violation determined: 08/20/2001
Date achieved compliance: 01/08/2002
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/05/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.40-43.D
Area of violation: Generators - General
Date violation determined: 08/20/2001
Date achieved compliance: 01/08/2002
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 10/05/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 08/20/2001
Date achieved compliance: 01/08/2002
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 10/05/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.40-43.D
Area of violation: Generators - General
Date violation determined: 08/20/2001
Date achieved compliance: 01/08/2002

SPECIALTY ORGANICS INC (Continued) **1000171503**

Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/05/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 08/20/2001
Date achieved compliance: 01/08/2002
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/05/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 10/26/1993
Date achieved compliance: 08/20/2001
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/20/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/08/2002
Evaluation lead agency: EPA

Evaluation date: 10/26/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/20/2001
Evaluation lead agency: State Contractor/Grantee

LUST:
Region: STATE
Global Id: T0603703325
Latitude: 34.1079883
Longitude: -117.9387
Case Type: LUST Cleanup Site

SPECIALTY ORGANICS INC (Continued) **1000171503**

Status:	Completed - Case Closed
Status Date:	02/01/1995
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	DK
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	108.0514
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Aviation
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603703325
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603703325
Contact Type:	Regional Board Caseworker
Contact Name:	DAVID KOO
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	Not reported
City:	R4 UNKNOWN
Email:	dkoo@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603703325
Status:	Completed - Case Closed
Status Date:	02/01/1995

Global Id:	T0603703325
Status:	Open - Case Begin Date
Status Date:	02/15/1990

Global Id:	T0603703325
Status:	Open - Site Assessment
Status Date:	04/10/1990

Regulatory Activities:

Global Id:	T0603703325
Action Type:	ENFORCEMENT
Date:	02/01/1995
Action:	Closure/No Further Action Letter

Global Id:	T0603703325
Action Type:	Other
Date:	02/15/1990
Action:	Leak Discovery

SPECIALTY ORGANICS INC (Continued) **1000171503**

Global Id: T0603703325
Action Type: Other
Date: 02/15/1990
Action: Leak Stopped

Global Id: T0603703325
Action Type: Other
Date: 02/15/1990
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-08370
Status: Preliminary site assessment underway
Substance: 1
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603703325
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: Not reported
Enforcement Type: Not reported
Date Leak Discovered: 2/15/1990
Date Leak First Reported: 2/15/1990
Date Leak Record Entered: 5/15/1990
Date Confirmation Began: Not reported
Date Leak Stopped: 2/15/1990
Date Case Last Changed on Database: 5/16/1990
Date the Case was Closed: Not reported
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 2110.232852306896750372917154
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 4/10/1990
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported

SPECIALTY ORGANICS INC (Continued) **1000171503**

Organization: Not reported
Owner Contact: Not reported
Responsible Party: SPECIALTY ORGANICS, INC.
RP Address: 5263 004TH ST., N., IRWINDALE, 91706
Program: LUST
Lat/Long: 34.1079883 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

HIST UST:
File Number: 000287D2
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000287D2.pdf
Region: STATE
Facility ID: 00000055884
Facility Type: Other
Other Type: CHEMICAL MFG.
Contact Name: Not reported
Telephone: 8189622008
Owner Name: SPECIALTY ORGANICS, INC.
Owner Address: 5263 N. FOURTH ST.
Owner City,St,Zip: IRWINDALE, CA 91706
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-08370

LOS ANGELES CO. HMS:
Region: LA
Permit Category: S
Facility Id: 007903-047865
Facility Type: S6
Facility Status: Closed
Area: 3S
Permit Number: CGI001298
Permit Status: Closed

Region: LA

SPECIALTY ORGANICS INC (Continued) **1000171503**

Permit Category: Not reported
Facility Id: 009132-008370
Facility Type: Not reported
Facility Status: Removed
Area: 3S
Permit Number: Not reported
Permit Status: Not reported

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	188781
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I001298
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	3/27/1992
STATUS CODE NAME:	Active
STATUS DATE:	3/27/1992
PLACE SIZE:	1
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	Joseph V Seruto
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Specialty Organics Inc
OPERATOR ADDRESS:	5263 4th St
OPERATOR CITY:	Irwindale
OPERATOR STATE:	California
OPERATOR ZIP:	91706
OPERATOR CONTACT NAME:	Joseph V Seruto
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	626-962-2008
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Other
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported

SPECIALTY ORGANICS INC (Continued) **1000171503**

CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Pacific Ocean
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	2869-Industrial Organic Chemicals, NEC
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000001
Facility Status:	Terminated
Agency Id:	0
Region:	4
Regulatory Measure Id:	188781
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I001298
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/27/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	07/01/2015
Discharge Name:	Specialty Organics Inc
Discharge Address:	5263 4th St
Discharge City:	Irwindale
Discharge State:	California
Discharge Zip:	91706
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported

SPECIALTY ORGANICS INC (Continued) **1000171503**

FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

WDS:

Facility ID:	4 19I001298
Facility Type:	Not reported
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	4
Facility Telephone:	Not reported
Facility Contact:	Not reported

SPECIALTY ORGANICS INC (Continued) **1000171503**

Agency Name:	SPECIALTY ORGANICS INC.
Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Not reported
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

WIP:

Region:	4
File Number:	108.0514
File Status:	**Historical**
Staff:	DRASMUSS
Facility Suite:	Not reported

T116 **IRWINDALE SHOP** **LUST** **U001568768**
South **4702 AZUSA CANYON RD** **SWEEPS UST** **N/A**
1/4-1/2 **IRWINDALE, CA 91706** **HIST UST**
0.393 mi. **WDS**
2076 ft. **Site 1 of 2 in cluster T** **WIP**

Relative:
Lower

Actual:
433 ft.

LUST:

Region:	STATE
Global Id:	T0603762683
Latitude:	34.098438
Longitude:	-117.942934
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/15/2008
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	RVI
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	Not reported

IRWINDALE SHOP (Continued) **U001568768**

LOC Case Number: 004917
File Location: Not reported
Potential Media Affect: Under Investigation
Potential Contaminants of Concern: Gasoline, Diesel, Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603762683
Contact Type: Local Agency Caseworker
Contact Name: MANUEL R REGALADO
Organization Name: LOS ANGELES COUNTY
Address: 900 S. FREMONT AVE.
City: ALHAMBRA
Email: mregalad@dpw.lacounty.gov
Phone Number: Not reported

Global Id: T0603762683
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603762683
Status: Completed - Case Closed
Status Date: 05/15/2008

Global Id: T0603762683
Status: Open - Case Begin Date
Status Date: 09/27/2007

Global Id: T0603762683
Status: Open - Site Assessment
Status Date: 10/01/2007

Global Id: T0603762683
Status: Open - Site Assessment
Status Date: 12/10/2007

Regulatory Activities:
Global Id: T0603762683
Action Type: Other
Date: 09/27/2007
Action: Leak Discovery

Global Id: T0603762683
Action Type: Other
Date: 10/01/2007
Action: Leak Reported

Global Id: T0603762683
Action Type: REMEDIATION

IRWINDALE SHOP (Continued) **U001568768**

Date: 10/01/2007
Action: Not reported

SWEEPS UST:
Status: Active
Comp Number: 4917
Number: 9
Board Of Equalization: 44-007867
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-004917-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 3

Status: Active
Comp Number: 4917
Number: 9
Board Of Equalization: 44-007867
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-004917-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 4917
Number: 9
Board Of Equalization: 44-007867
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-000-004917-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

IRWINDALE SHOP (Continued) **U001568768**

HIST UST:

File Number:	00026907
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026907.pdf
Region:	STATE
Facility ID:	00000004815
Facility Type:	Other
Other Type:	TRUCK SHOP
Contact Name:	Not reported
Telephone:	2132582777
Owner Name:	CAL MAT CO. FORMERLY CONROCK C
Owner Address:	3200 SAN FERNANDO RD
Owner City,St,Zip:	LOS ANGELES, CA 90065
Total Tanks:	0005
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00010400
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	005
Container Num:	5
Year Installed:	1982
Tank Capacity:	00001000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	6

IRWINDALE SHOP (Continued) **U001568768**

Leak Detection: None

Click here for Geo Tracker PDF:

WDS:

Facility ID:	4 19I002244
Facility Type:	Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	4
Facility Telephone:	Not reported
Facility Contact:	Not reported
Agency Name:	CALMAT CO.
Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

WIP:

Region:	4
File Number:	108.0013
File Status:	**Historical**
Staff:	DKOO
Facility Suite:	Not reported

Region:	4
File Number:	108.0149

IRWINDALE SHOP (Continued) **U001568768**

File Status: **Not reported**
Staff: UNIDENTIFIED
Facility Suite: Not reported

T117
South
1/4-1/2
0.393 mi.
2076 ft.

Relative:
Lower

Actual:
433 ft.

WESTERN ENVIRONMENTALCONTRACTING **ABANDONED MINES** **1018268361**
4702 AZUSA CANYON ROAD **N/A**
IRWINDALE, CA 91706

Site 2 of 2 in cluster T

ABANDONED MINES:
Mine ID: 405485
Mine Type: Surface
Mine Status Description: Abandoned
Mine Status Date: 12/31/2001
Coal (C) or Metal (M) Mine: M
Controller ID: 0071891
Controller Name: Vulcan Materials Company
Operator ID: L16645
Operator name: CALMAT Co
Latitude: Not reported
Longitude: Not reported

118
ENE
1/4-1/2
0.402 mi.
2123 ft.

Relative:
Higher

Actual:
470 ft.

BIOSENSE WEBSTER INC **RCRA-LQG** **1000404139**
15715 ARROW HWY **SLIC** **CAD982360992**
IRWINDALE, CA 91706 **NPDES**

RCRA-LQG:
Date form received by agency: 01/25/2016
Facility name: BIOSENSE WEBSTER INC
Facility address: 15715 ARROW HWY
IRWINDALE, CA 91706
EPA ID: CAD982360992
Contact: WILLIAM K MUIRU
Contact address: 15715 ARROW HWY
IRWINDALE, CA 91706
Contact country: US
Contact telephone: 909-839-8595
Contact email: WMUIRU@ITS.JNJ.COM
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

BIOSENSE WEBSTER INC (Continued) **1000404139**

Owner/Operator Summary:
Owner/operator name: BIOSENSE WEBSTER INC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/01/1999
Owner/Op end date: Not reported

Owner/operator name: LOUISE NICKEL LIVING TRUST
Owner/operator address: 11620 WILSHIRE BLVD STE 1000
LOS ANGELES, 90025
Owner/operator country: US
Owner/operator telephone: 310-966-1680
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/02/1992
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 134
. Waste name: 134

. Waste code: 135
. Waste name: 135

. Waste code: 181
. Waste name: 181

. Waste code: 223
. Waste name: 223

. Waste code: 331
. Waste name: 331

. Waste code: 343
. Waste name: 343

BIOSENSE WEBSTER INC (Continued) **1000404139**

. Waste code: 352
. Waste name: 352

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:
Date form received by agency: 01/05/2015
Site name: BIOSENSE WEBSTER INC
Classification: Small Quantity Generator

. Waste code: 134
. Waste name: 134

. Waste code: 135
. Waste name: 135

. Waste code: 181
. Waste name: 181

. Waste code: 223
. Waste name: 223

. Waste code: 331
. Waste name: 331

. Waste code: 343
. Waste name: 343

. Waste code: 352
. Waste name: 352

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

BIOSENSE WEBSTER INC (Continued) **1000404139**

MIXTURES.

Date form received by agency: 09/01/1996
Site name: IOPTEX RESEARCH INC
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: IOPTEX RESEARCH INC
Classification: Small Quantity Generator

Date form received by agency: 03/08/1996
Site name: ALLERGAN MEDICAL OPTICS, IRWINDALE
Classification: Large Quantity Generator

Date form received by agency: 03/19/1994
Site name: IOPTEX RESEARCH, INC
Classification: Large Quantity Generator

Date form received by agency: 01/14/1992
Site name: IOPTEX RESEARCH INC
Classification: Large Quantity Generator

Date form received by agency: 07/12/1989
Site name: IOPTEX RESEARCH INC
Classification: Small Quantity Generator

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

BIOSENSE WEBSTER INC (Continued) **1000404139**

MIXTURES.

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U003
. Waste name: ACETONITRILE (I,T)

. Waste code: U080
. Waste name: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

. Waste code: U112
. Waste name: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

. Waste code: U113
. Waste name: 2-PROPENOIC ACID, ETHYL ESTER (I) (OR) ETHYL ACRYLATE (I)

. Waste code: U115
. Waste name: ETHYLENE OXIDE (I,T) (OR) OXIRANE (I,T)

. Waste code: U118
. Waste name: 2-PROPENOIC ACID, 2-METHYL-, ETHYL ESTER (OR) ETHYL METHACRYLATE

. Waste code: U151
. Waste name: MERCURY

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U162
. Waste name: 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER (I,T) (OR) METHYL METHACRYLATE (I,T)

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

Violation Status: No violations found

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	10/29/2014
Global Id:	SL603798877
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.107038
Longitude:	-117.937666
Case Type:	Cleanup Program Site
Case Worker:	GJH
Local Agency:	Not reported
RB Case Number:	108.0255
File Location:	Not reported
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

BIOSENSE WEBSTER INC (Continued) **1000404139**

Click here to access the California GeoTracker records for this facility:

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	191081
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I016097
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	9/15/2000
STATUS CODE NAME:	Active
STATUS DATE:	9/15/2000
PLACE SIZE:	205200
PLACE SIZE UNIT:	53
FACILITY CONTACT NAME:	Racine Ward
FACILITY CONTACT TITLE:	EHS Manager
FACILITY CONTACT PHONE:	909-839-8595
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	rward7@its.jnj.com
OPERATOR NAME:	Biosense Webster Inc
OPERATOR ADDRESS:	15715 Arrow Hwy
OPERATOR CITY:	Irwindale
OPERATOR STATE:	California
OPERATOR ZIP:	91706
OPERATOR CONTACT NAME:	Dennis James
OPERATOR CONTACT TITLE:	Facility Director
OPERATOR CONTACT PHONE:	909-839-8562
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	djames@its.jnj.com
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported

BIOSENSE WEBSTER INC (Continued) **1000404139**

CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Pacific Ocean
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	3841-Surgical and Medical Instruments and Apparatus
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	191081
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I016097
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	09/15/2000
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Biosense Webster Inc
Discharge Address:	15715 Arrow Hwy
Discharge City:	Irwindale
Discharge State:	California
Discharge Zip:	91706
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported

BIOSENSE WEBSTER INC (Continued) **1000404139**

OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

119
NE
1/4-1/2
0.443 mi.
2339 ft.

AMERICAN CAPACITOR CORP., **SLIC S106484690**
5367 THIRD ST **WIP N/A**
IRWINDALE, CA 91706

Relative:
Higher

Actual:
476 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Inactive**
Status Date:	10/29/2014
Global Id:	SL603798884
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.108681
Longitude:	-117.936895
Case Type:	Cleanup Program Site

AMERICAN CAPACITOR CORP., (Continued) **S106484690**

Case Worker: GJH
Local Agency: Not reported
RB Case Number: 108.0581
File Location: Not reported
Potential Media Affected: Aquifer used for drinking water supply
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

WIP:
Region: 4
File Number: 108.0581
File Status: Backlog
Staff: UNIDENTIFIED
Facility Suite: Not reported

---

120 NNE 1/2-1 0.652 mi. 3443 ft.

Relative: Higher

Actual: 494 ft.

DAVIS WIRE CORP
5555 IRWINDALE AVE
IRWINDALE, CA 91706

RCRA-LQG 1000262472
ENVIROSTOR CAD099466310
LUST
ICIS
US AIRS
HIST CORTESE
LOS ANGELES CO. HMS
NPDES

RCRA-LQG:
Date form received by agency: 02/10/2016
Facility name: DAVIS WIRE CORPORATION
Facility address: 5555 N. IRWINDALE AVE
IRWINDALE, CA 91706
EPA ID: CAD099466310
Mailing address: N. IRWINDALE AVE
IRWINDALE, CA 91706
Contact: NANCY FELIX
Contact address: N. IRWINDALE AVE
IRWINDALE, CA 91706
Contact country: US
Contact telephone: (626) 815-3211
Contact email: NFELIX@DAVISWIRE.COM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

DAVIS WIRE CORP (Continued) **1000262472**

Owner/Operator Summary:
Owner/operator name: THE HEICO COMPANIES
Owner/operator address: WARRENVILLE RD. #400
DOWNERS GROVE, IL 60515
Owner/operator country: US
Owner/operator telephone: (630) 353-5100
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/01/1991
Owner/Op end date: Not reported

Owner/operator name: DAVIS WIRE CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/01/1991
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 131
. Waste name: 131

. Waste code: 491
. Waste name: 491

. Waste code: D002
. Waste name: CORROSIVE WASTE

DAVIS WIRE CORP (Continued) **1000262472**

. Waste code: D007
. Waste name: CHROMIUM

Historical Generators:
Date form received by agency: 03/01/2014
Site name: DAVIS WIRE CORPORATION
Classification: Large Quantity Generator

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

Date form received by agency: 09/01/1996
Site name: DAVIS WALKER CORP
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: DAVIS WALKER CORP
Classification: Small Quantity Generator

Date form received by agency: 04/25/1990
Site name: DAVIS WALKER CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 10/30/1980
Site name: DAVIS WALKER CORP
Classification: Large Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 10/29/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

ENVIROSTOR:
Facility ID: 71002657
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 48
Senate: 22
Special Program: Not reported
Restricted Use: NO

DAVIS WIRE CORP (Continued) **1000262472**

Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.11261
Longitude: -117.9369
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD099466310
Alias Type: EPA Identification Number
Alias Name: 110000477332
Alias Type: EPA (FRS #)
Alias Name: 71002657
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Region: STATE
Global Id: T0603700169
Latitude: 34.113352
Longitude: -117.937158
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 05/20/1996
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: WIP
Local Agency: LOS ANGELES COUNTY
RB Case Number: 108.0533
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603700169
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY

DAVIS WIRE CORP (Continued) **1000262472**

Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603700169
Contact Type: Regional Board Caseworker
Contact Name: WELL INVESTIGATION PROGRAM
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: LOS ANGELES
Email: Not reported
Phone Number: Not reported

Status History:
Global Id: T0603700169
Status: Completed - Case Closed
Status Date: 05/20/1996

Global Id: T0603700169
Status: Open - Case Begin Date
Status Date: 07/30/1990

Regulatory Activities:
Global Id: T0603700169
Action Type: Other
Date: 07/30/1990
Action: Leak Discovery

Global Id: T0603700169
Action Type: Other
Date: 07/30/1990
Action: Leak Stopped

Global Id: T0603700169
Action Type: Other
Date: 08/07/1990
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 108.0533
Status: Case Closed
Substance: Waste Oil
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603700169
W Global ID: Not reported
Staff: WIP
Local Agency: 19000
Cross Street: GLADSTONE ST.

DAVIS WIRE CORP (Continued) **1000262472**

Enforcement Type:	Not reported	
Date Leak Discovered:	7/30/1990	
Date Leak First Reported:		8/7/1990
Date Leak Record Entered:	12/2/1990	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	7/30/1990	
Date Case Last Changed on Database:		5/20/1996
Date the Case was Closed:		5/20/1996
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	BURNHAM, DALE E.	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		4331.60584645069896500541597 43
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	DAVIS WIRE CORP.	
RP Address:	5555 IRWINDALE AVE., N., IRWINDALE, 91706	
Program:	LUST	
Lat/Long:	34.1134761 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	OLD CASE #120390-17; 3/19/96 PRELIMINARY SOIL GAS SURVEY; WIP CASE STAFF PERSON: DAVID RASMUSSEN	

ICIS:

Enforcement Action ID:	CASCAA200137865
FRS ID:	110000477332
Action Name:	NOV P56338 FOR RULE 2004
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Notice of Violation
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV

DAVIS WIRE CORP (Continued) **1000262472**

Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA200129235
FRS ID: 110000477332
Action Name: NOV P57825 RULE 2012 APPENDIX A
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100127
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100127
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100126
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100126
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES

DAVIS WIRE CORP (Continued) **1000262472**

Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100105
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100105
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100104
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100104
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100085
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100085
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE

DAVIS WIRE CORP (Continued) **1000262472**

	IRWINDALE, CA 91706
Enforcement Action Type:	Administrative Order
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006037C887100084
FRS ID:	110000477332
Action Name:	DAVIS WIRE CORP 06037C887100084
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE
	IRWINDALE, CA 91706
Enforcement Action Type:	Notice of Violation
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006037C887100063
FRS ID:	110000477332
Action Name:	DAVIS WIRE CORP 06037C887100063
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE
	IRWINDALE, CA 91706
Enforcement Action Type:	Administrative Order
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006037C887100062
FRS ID:	110000477332

DAVIS WIRE CORP (Continued) **1000262472**

Action Name:	DAVIS WIRE CORP 06037C887100062
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Notice of Violation
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006037C887100037
FRS ID:	110000477332
Action Name:	DAVIS WIRE CORP 06037C887100037
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Administrative Order
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006037C887100036
FRS ID:	110000477332
Action Name:	DAVIS WIRE CORP 06037C887100036
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Notice of Violation
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

DAVIS WIRE CORP (Continued) **1000262472**

Enforcement Action ID:	CASCAA000006037C887100033
FRS ID:	110000477332
Action Name:	DAVIS WIRE CORP 06037C887100033
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Administrative Order
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006037C887100032
FRS ID:	110000477332
Action Name:	DAVIS WIRE CORP 06037C887100032
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Notice of Violation
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871
Facility NAICS Code:	331222
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA000006037C887100029
FRS ID:	110000477332
Action Name:	DAVIS WIRE CORP 06037C887100029
Facility Name:	DAVIS WIRE CORP
Facility Address:	5555 IRWINDALE AVE IRWINDALE, CA 91706
Enforcement Action Type:	Administrative Order
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	3315
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.113297
Longitude in Decimal Degrees:	-117.936214
Permit Type Desc:	Not reported
Program System Acronym:	CASCA00006037C8871

DAVIS WIRE CORP (Continued) **1000262472**

Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100028
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100028
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100025
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100025
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100024
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100024
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297

DAVIS WIRE CORP (Continued) **1000262472**

Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100021
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100021
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100020
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100020
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100014
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100014
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO

DAVIS WIRE CORP (Continued) **1000262472**

Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100013
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100013
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100010
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100010
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Administrative Order
Facility County: LOS ANGELES
Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: SCAAAO
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

Enforcement Action ID: CASCAA000006037C887100009
FRS ID: 110000477332
Action Name: DAVIS WIRE CORP 06037C887100009
Facility Name: DAVIS WIRE CORP
Facility Address: 5555 IRWINDALE AVE
IRWINDALE, CA 91706
Enforcement Action Type: Notice of Violation
Facility County: LOS ANGELES

DAVIS WIRE CORP (Continued) **1000262472**

Program System Acronym: AIR
Enforcement Action Forum Desc: Administrative - Informal
EA Type Code: NOV
Facility SIC Code: 3315
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.113297
Longitude in Decimal Degrees: -117.936214
Permit Type Desc: Not reported
Program System Acronym: CASCA00006037C8871
Facility NAICS Code: 331222
Tribal Land Code: Not reported

US AIRS (AFS):
Envid: 1000262472
Region Code: 09
County Code: CA037
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
D and B Number: Not reported
Facility Site Name: DAVIS WIRE CORP
Primary SIC Code: 3315
NAICS Code: 331222
Default Air Classification Code: MAJ
Facility Type of Ownership Code: POF
Air CMS Category Code: TVM
HPV Status: Not reported

US AIRS (AFS):
Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2015-09-29 17:21:20
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2016-05-31 16:23:59
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR

DAVIS WIRE CORP (Continued) **1000262472**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2003-05-28 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2005-08-10 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2006-05-24 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2007-01-16 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2010-02-26 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09

DAVIS WIRE CORP (Continued) **1000262472**

Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2012-08-02 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2014-03-25 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-08-13 00:00:00
Activity Status Date: 2014-10-30 18:53:15
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-10-21 00:00:00
Activity Status Date: 2014-10-30 18:49:07
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-10-21 00:00:00
Activity Status Date: 2014-10-30 19:04:40
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2015-08-19 00:00:00
Activity Status Date: 2015-09-29 17:19:54
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-10-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-01-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-10-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-07-14 00:00:00

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-12-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-02-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-12-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-12-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR

DAVIS WIRE CORP (Continued) **1000262472**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-04-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-04-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-09-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-10-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-10-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

DAVIS WIRE CORP (Continued) **1000262472**

Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-06-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-08-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-08-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-10-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-03-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-03-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-05-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-05-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-06-01 00:00:00

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-07-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-07-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-01-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR

DAVIS WIRE CORP (Continued) **1000262472**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-01-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-09-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-01-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

DAVIS WIRE CORP (Continued) **1000262472**

Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-09-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-04-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-30 00:00:00

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-10-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-03-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-08-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-10-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR

DAVIS WIRE CORP (Continued) **1000262472**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-11-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-11-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-08-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-08-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

DAVIS WIRE CORP (Continued) **1000262472**

Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-12-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-12-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-08-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-12-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-12-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-04-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-01-21 00:00:00
Activity Status Date: 2003-01-21 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-03-10 00:00:00

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status Date: 2005-03-10 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-12-22 00:00:00
Activity Status Date: 2005-12-22 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-08-24 00:00:00
Activity Status Date: 2006-08-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-10-17 00:00:00
Activity Status Date: 2008-10-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-02-03 00:00:00
Activity Status Date: 2012-02-03 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR

DAVIS WIRE CORP (Continued) **1000262472**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-06-18 00:00:00
Activity Status Date: 2013-06-18 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-05-15 00:00:00
Activity Status Date: 2002-05-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-12-14 00:00:00
Activity Status Date: 2004-12-14 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-10-05 00:00:00
Activity Status Date: 2005-10-05 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-06-15 00:00:00
Activity Status Date: 2006-06-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09

DAVIS WIRE CORP (Continued) **1000262472**

Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-11-13 00:00:00
Activity Status Date: 2007-11-13 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-09-20 00:00:00
Activity Status Date: 2011-09-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-12-12 00:00:00
Activity Status Date: 2012-12-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2015-09-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2016-02-05 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2015-09-29 17:21:20
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2016-05-31 16:23:59
Activity Group: Case File
Activity Type: Case File
Activity Status: Notified

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2001-02-20 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2001-09-12 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status Date: 2004-06-16 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2005-04-08 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2005-08-10 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2006-05-24 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2007-01-16 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR

DAVIS WIRE CORP (Continued) **1000262472**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2010-02-26 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2012-08-02 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2014-03-25 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-08-13 00:00:00
Activity Status Date: 2014-10-30 18:53:15
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-10-21 00:00:00
Activity Status Date: 2014-10-30 18:49:07
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09

DAVIS WIRE CORP (Continued) **1000262472**

Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-10-21 00:00:00
Activity Status Date: 2014-10-30 19:04:40
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-08-19 00:00:00
Activity Status Date: 2015-09-29 17:19:54
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-07-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-12-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-12-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-04-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-04-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-09-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-10-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-10-07 00:00:00

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-06-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-08-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-08-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-10-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR

DAVIS WIRE CORP (Continued) **1000262472**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-03-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-03-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-03-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-05-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-05-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

DAVIS WIRE CORP (Continued) **1000262472**

Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-06-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-07-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-07-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-01-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-01-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-09-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-01-23 00:00:00

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR

DAVIS WIRE CORP (Continued) **1000262472**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-09-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-04-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

DAVIS WIRE CORP (Continued) **1000262472**

Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-10-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-03-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-08-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-10-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-11-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-11-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-08-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-08-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-09-06 00:00:00

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-12-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-12-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-05-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR

DAVIS WIRE CORP (Continued) **1000262472**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-08-14 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-12-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-12-31 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-04-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-08-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

DAVIS WIRE CORP (Continued) **1000262472**

Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-12-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2000-07-26 00:00:00
Activity Status Date: 2000-07-26 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-09-12 00:00:00
Activity Status Date: 2001-09-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-06-03 00:00:00
Activity Status Date: 2003-06-03 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-06-25 00:00:00
Activity Status Date: 2004-06-25 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-03-10 00:00:00
Activity Status Date: 2005-03-10 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-12-22 00:00:00
Activity Status Date: 2005-12-22 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-08-24 00:00:00
Activity Status Date: 2006-08-24 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-10-17 00:00:00
Activity Status Date: 2008-10-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-02-03 00:00:00

DAVIS WIRE CORP (Continued) **1000262472**

Activity Status Date: 2012-02-03 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-06-18 00:00:00
Activity Status Date: 2013-06-18 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-10-01 00:00:00
Activity Status Date: 1998-10-01 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2001-08-08 00:00:00
Activity Status Date: 2001-08-08 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-03-20 00:00:00
Activity Status Date: 2003-03-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR

DAVIS WIRE CORP (Continued) **1000262472**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-04-27 00:00:00
Activity Status Date: 2004-04-27 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-12-14 00:00:00
Activity Status Date: 2004-12-14 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-10-05 00:00:00
Activity Status Date: 2005-10-05 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-06-15 00:00:00
Activity Status Date: 2006-06-15 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-11-13 00:00:00
Activity Status Date: 2007-11-13 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09

DAVIS WIRE CORP (Continued) **1000262472**

Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-09-20 00:00:00
Activity Status Date: 2011-09-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-12-12 00:00:00
Activity Status Date: 2012-12-12 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2015-09-17 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA00006037C8871
Facility Registry ID: 110000477332
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2016-02-05 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 108.0533

LOS ANGELES CO. HMS:
Region: LA

DAVIS WIRE CORP (Continued) **1000262472**

Permit Category: T
Facility Id: 002365-002447
Facility Type: 0
Facility Status: Closed
Area: 3S
Permit Number: 00001578T
Permit Status: Closed

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	190045
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I010894
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	2/17/1994
STATUS CODE NAME:	Active
STATUS DATE:	5/7/2008
PLACE SIZE:	15
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	Debbie Moore
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	626-347-0113
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	dmoore@daviswire.com
OPERATOR NAME:	Davis Wire Corp
OPERATOR ADDRESS:	5555 Irwindale Ave
OPERATOR CITY:	Irwindale
OPERATOR STATE:	California
OPERATOR ZIP:	91706
OPERATOR CONTACT NAME:	Debbie Moore
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	626-347-0113
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	dmoore@daviswire.com
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported

DAVIS WIRE CORP (Continued) **1000262472**

CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	626-969-7651
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Upper San Gabriel River
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	3315-Steel Wiredrawing and Steel Nails and Spikes
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	190045
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I010894
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/17/1994
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Davis Wire Corp
Discharge Address:	5555 Irwindale Ave
Discharge City:	Irwindale
Discharge State:	California
Discharge Zip:	91706
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported

DAVIS WIRE CORP (Continued) **1000262472**

FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

121
SSE
1/2-1
0.751 mi.
3963 ft.

Relative:
Lower

Actual:
426 ft.

AMERICAN PHARMASEAL LABORATORIES
4401 FOXDALE AVE
IRWINDALE, CA 91706

Database(s): SEMS, RCRA-SQG, ENVIROSTOR, HIST UST, FINDS, HAZNET, HIST CORTESE, NPDES, WIP, ECHO

EDR ID Number: 1000360641
EPA ID Number: CAD000628099

SEMS:

Site ID:	903628
EPA ID:	CAD000628099
Federal Facility:	N
NPL:	Site is Part of NPL Site
Non NPL Status:	Not reported

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID:	0903628
EPA ID:	CAD000628099
Facility County:	LOS ANGELES
Short Name:	BAXTER HEALTHCARE CORP. S
Congressional District:	30
IFMS ID:	Not reported
SMSA Number:	4480
USGC Hydro Unit:	18070106
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	09
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Site is Part of NPL Site
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Not reported
Non NPL Status Date:	/ /
Site Fips Code:	06037
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	13003854.00000
Contact Name:	Leslie Ramirez
Contact Tel:	(415) 972-3978
Contact Title:	Site Assessment Manager (SAM)
Contact Email:	Not reported

Contact ID:	13003858.00000

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

Contact Name: Sharon Murray
Contact Tel: (415) 972-4250
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13004003.00000
Contact Name: Carl Brickner
Contact Tel: Not reported
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

CERCLIS Site Alias Name(s):
Alias ID: 101
Alias Name: BAXTER HEALTHCARE CORP
Alias Address: Not reported
CA
Alias ID: 201
Alias Name: AMERICAN PHARMASEAL LABORATORIES
Alias Address: Not reported
CA
Alias ID: 201
Alias ID: 101
Alias Comments: PREVIOUS EPA ID# AZD 981 416 977PREVIOUS EPA ID# AZD 981 416 977
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 06/21/89
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 06/07/91
Priority Level: Addressed as part of an existing NPL site
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: AMERICAN PHARMASEAL LABORATORIES
Facility address: 4401 FOXDALE AVE
IRWINDALE, CA 91706
EPA ID: CAD000628099

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

Mailing address: 4401 FOXDALE AVENUE
IRWINDALE, CA 91706
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: AMERICAN PHARMASEAL LABORATORIES
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/19/1992

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

Site name: BAXTER HEALTHCARE PHARMASEAL DIVISION
Classification: Large Quantity Generator

Date form received by agency: 07/30/1980
Site name: AMERICAN PHARMASEAL LABORATORIES
Classification: Large Quantity Generator

Violation Status: No violations found

ENVIROSTOR:
Facility ID: 19380055
Status: Refer: RWQCB
Status Date: 05/16/1995
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Chatsworth
Assembly: 48
Senate: 22
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.09397
Longitude: -117.9381
APN: 8417004009
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: AMERICAN PHARMASEAL LABORATORIES
Alias Type: Alternate Name
Alias Name: 8417004009
Alias Type: APN
Alias Name: CAD000628099
Alias Type: CERCLIS ID
Alias Name: 110000477378
Alias Type: EPA (FRS #)
Alias Name: 19380055
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 05/03/1991
Comments: Listed on RCRA database as a hazardous waste generator since 07/30/1980.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

Completed Date: 07/21/1994
Comments: Site screening/visit conducted. Ejie Solomon at RWQCB is Project Manager supervising cleanup activities at the site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/26/1991
Comments: RWQCB conducted a site inspection of Baxter Pharmaseal in December 1989. As a result of the investigation, a subsurface investigation was conducted to determine the extent of contamination in the dioctyl phthalate (DOP) tank/precipatate collection and clarifier areas. Phase I and Phase II investigations were completed on 06/22/90 and 01/14/91 respectively. Phase I and Phase II investigations indicate that hazardous substances (PCE), toluene, freon-TF, Bis (2-ethyl hexyl phthalate (BEHP) have contaminated the soil. EPA recommends for a high priority SSI, DHS recommends high priority PEA.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000003016
Facility Type: Other
Other Type: MANUFACTUR
Contact Name: JOHN FEENEY
Telephone: 8189623531
Owner Name: AMERICAN PHARMASEAL LABORATORI
Owner Address: 4401 FOXDALE AVE.
Owner City,St,Zip: IRWINDALE, CA 91706
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1977
Tank Capacity: 00020000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual, 10

FINDS:

Registry ID: 110000477378

Environmental Interest/Information System

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

SUPERFUND (NON-NPL)

STATE MASTER

HAZARDOUS WASTE BIENNIAL REPORTER

US EPA Risk Management Plan (RMP) database stores the risk management plans reported by companies that handle, manufacture, use, or store certain flammable or toxic substances, as required under section 112(r) of the Clean Air Act (CAA).

HAZNET:

envid:	1000360641
Year:	1994
GEPAID:	CAD000628099
Contact:	AMERICAN PHARMASEAL LABORATORI
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	4401 FOXDALE AVE
Mailing City,St,Zip:	IRWINDALE, CA 917060000
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
Waste Category:	Empty containers less than 30 gallons
Disposal Method:	Disposal, Land Fill
Tons:	.0150
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000360641
Year:	1993
GEPAID:	CAD000628099
Contact:	AMERICAN PHARMASEAL LABORATORI
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	4401 FOXDALE AVE
Mailing City,St,Zip:	IRWINDALE, CA 917060000
Gen County:	Not reported
TSD EPA ID:	CAD008302903
TSD County:	Not reported
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Recycler
Tons:	2.07999999999

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000360641
Year: 1993
GEPAID: CAD000628099
Contact: AMERICAN PHARMASEAL LABORATORI
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 4401 FOXDALE AVE
Mailing City,St,Zip: IRWINDALE, CA 917060000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Laboratory waste chemicals
Disposal Method: Transfer Station
Tons: 3.79999999999
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000360641
Year: 1993
GEPAID: CAD000628099
Contact: AMERICAN PHARMASEAL LABORATORI
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 4401 FOXDALE AVE
Mailing City,St,Zip: IRWINDALE, CA 917060000
Gen County: Not reported
TSD EPA ID: CAD008302903
TSD County: Not reported
Waste Category: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: Recycler
Tons: 0.68799999999
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: 1000360641
Year: 1993
GEPAID: CAD000628099
Contact: AMERICAN PHARMASEAL LABORATORI
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 4401 FOXDALE AVE
Mailing City,St,Zip: IRWINDALE, CA 917060000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other empty containers 30 gallons or more
Disposal Method: Disposal, Land Fill
Tons: 1.49999999999
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

Click this hyperlink while viewing on your computer to access
7 additional CA_HAZNET: record(s) in the EDR Site Report.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	3138

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	328533
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I021020
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	7/20/2007
STATUS CODE NAME:	Active
STATUS DATE:	7/20/2007
PLACE SIZE:	20
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	Louis Ornelas
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	626-856-8686
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	lornelas@readypac.net
OPERATOR NAME:	Ready Pac Foods
OPERATOR ADDRESS:	4401 Foxdale Ave
OPERATOR CITY:	Irwindale
OPERATOR STATE:	California
OPERATOR ZIP:	91706
OPERATOR CONTACT NAME:	Louis F Ornelas
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	626-856-8686
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Y
RECEIVING WATER NAME:	Dalton Wash Stream & Ocean
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	2099-Food Preparations, NEC
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	4
Regulatory Measure Id:	328533
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I021020
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/20/2007
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Ready Pac Foods
Discharge Address:	4401 Foxdale Ave
Discharge City:	Irwindale
Discharge State:	California
Discharge Zip:	91706
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

WIP:

Region:	4
File Number:	108.0516
File Status:	**Historical**
Staff:	ESOLOMON
Facility Suite:	Not reported

AMERICAN PHARMASEAL LABORATORIES (Continued) **1000360641**

ECHO:
Envid: 1000360641
Registry ID: 110069447030
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110069447030

122
NE
1/2-1
0.798 mi.
4211 ft.

Relative:
Higher

Actual:
499 ft.

KEMAC TECHNOLOGY INC.
5462 N. IRWINDALE
IRWINDALE, CA 91706

RCRA-SQG **1000133491**
ENVIROSTOR **CAD981972771**
EMI
LOS ANGELES CO. HMS
NPDES
WDS

RCRA-SQG:
Date form received by agency: 05/10/2004
Facility name: KEMAC TECHNOLOGY INC.
Facility address: 5462 N. IRWINDALE
IRWINDALE, CA 91706
EPA ID: CAD981972771
Contact: RICHMOND G TEH
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: (626) 334-1519
Telephone ext.: 14
Contact email: RTEH@KEMACTECH.COM
EPA Region: 09
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: KEMAC TECHNOLOGY INC.
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 05/01/1995
Owner/Op end date: Not reported

Owner/operator name: IRWINDALE PROPERTIES, LLC
Owner/operator address: 405 S. MOTOR
AZUSA, CA 91702
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/27/2003
Owner/Op end date: Not reported

Handler Activities Summary:

KEMAC TECHNOLOGY INC. (Continued) **1000133491**

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 05/10/2004
Site name: KEMAC TECHNOLOGY INC.
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 03/19/2002
Site name: KEMAC TECHNOLOGY, INC
Classification: Large Quantity Generator

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON

KEMAC TECHNOLOGY INC. (Continued) **1000133491**

STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Date form received by agency: 09/01/1996
Site name: KEMAC TECH INC
Classification: Large Quantity Generator

Date form received by agency: 04/23/1996
Site name: KEMAC TECH INC
Classification: Large Quantity Generator

Date form received by agency: 03/29/1994
Site name: TRW SENSOR OPERATIONS
Classification: Large Quantity Generator

Date form received by agency: 02/28/1992
Site name: TRW TECHNAR INC
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 07/17/2003
Date achieved compliance: 08/18/2003
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/17/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 07/17/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/18/2003
Evaluation lead agency: State Contractor/Grantee

ENVIROSTOR:
Facility ID: 71002929
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 48

KEMAC TECHNOLOGY INC. (Continued) **1000133491**

Senate: 22
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.11169
Longitude: -117.9339
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD981972771
Alias Type: EPA Identification Number
Alias Name: 110009540675
Alias Type: EPA (FRS #)
Alias Name: 71002929
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

EMI:
Year: 1987
County Code: 19
Air Basin: SC
Facility ID: 55829
Air District Name: SC
SIC Code: 3714
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 5
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Year: 1990
County Code: 19
Air Basin: SC

KEMAC TECHNOLOGY INC. (Continued) **1000133491**

Facility ID:	55829
Air District Name:	SC
SIC Code:	3714
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	68
Reactive Organic Gases Tons/Yr:	26
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	55829
Air District Name:	SC
SIC Code:	3714
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	30
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

LOS ANGELES CO. HMS:

Region:	LA
Permit Category:	I
Facility Id:	007902-023516
Facility Type:	02
Facility Status:	Closed
Area:	3S
Permit Number:	000014257
Permit Status:	Closed

Region:	LA
Permit Category:	S
Facility Id:	007902-047859
Facility Type:	S6
Facility Status:	Closed
Area:	3S
Permit Number:	CGI012842
Permit Status:	Closed

Region:	LA
Permit Category:	I
Facility Id:	007902-I08369
Facility Type:	02
Facility Status:	Closed
Area:	3S
Permit Number:	000011280

KEMAC TECHNOLOGY INC. (Continued) **1000133491**

Permit Status: Closed

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	269123
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I009134
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	11/7/1992
STATUS CODE NAME:	Terminated
STATUS DATE:	11/7/1992
PLACE SIZE:	141778
PLACE SIZE UNIT:	53
FACILITY CONTACT NAME:	Barbara Cruz
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	626-812-7211
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	TRW Automotive Electronics Group
OPERATOR ADDRESS:	902 S Second St
OPERATOR CITY:	Marshall
OPERATOR STATE:	Illinois
OPERATOR ZIP:	62441
OPERATOR CONTACT NAME:	Barb Igleheart
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	217-826-2311
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Illinois
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	626-812-7211
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported

KEMAC TECHNOLOGY INC. (Continued) **1000133491**

CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Sante Fe Basin To San Gabriel
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	3714-Motor Vehicle Parts and Accessories
SECONDARY SIC:	3679-Electronic Components, NEC
TERTIARY SIC:	Not reported

WDS:

Facility ID:	4 19I012842
Facility Type:	Not reported
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	4
Facility Telephone:	Not reported
Facility Contact:	Not reported
Agency Name:	KEMAC TECHNOLOGY
Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Not reported
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

KEMAC TECHNOLOGY INC. (Continued) **1000133491**

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

U123 **NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA)** **ENVIROSTOR** **U001568706**
NNE **405 S MOTOR AVE** **SLIC** **N/A**
1/2-1 **AZUSA, CA 91702** **SWEEPS UST**
0.923 mi. **HIST UST**
4873 ft. **Site 1 of 2 in cluster U** **HWP**
NPDES
Relative: **WIP**
Higher **ICE**

Actual: **507 ft.**

ENVIROSTOR:

Facility ID:	80001568
Status:	Active
Status Date:	06/15/2009
Site Code:	300305
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	2.75
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	WM
Program Manager:	Patrick Movlay
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Assembly:	48
Senate:	22
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.11626
Longitude:	-117.9352
APN:	8615002022
Past Use:	MANUFACTURING - CHEMICALS, OIL/WATER SEPARATORS, WASTE WATER PONDS
Potential COC:	Lead Bis(2-ethylhexyl)phthalate (DEHP) Butyl benzyl phthalate Benzene Chloroform Chloromethane (methyl chloride Benzoic acid
Confirmed COC:	Benzene Benzoic acid Chloromethane (methyl chloride Bis(2-ethylhexyl)phthalate (DEHP) Butyl benzyl phthalate Chloroform Lead
Potential Description:	OTH, SED, SOIL, SV
Alias Name:	8615002022
Alias Type:	APN
Alias Name:	CAD008352957
Alias Type:	EPA Identification Number
Alias Name:	300305
Alias Type:	Project Code (Site Code)
Alias Name:	80001568
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Completed Document Type: RFI Report
Completed Date: 09/15/2014
Comments: RFI approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan Addendum
Completed Date: 01/28/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/28/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/01/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 02/14/2006
Comments: Releases from the SWMUs and HWMUs and AOCs identified in the CCR and CACA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 06/30/2014
Comments: The Human Health Risk Assessment was approved on 6/30/2014

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan Addendum
Completed Date: 04/16/2012
Comments: -Resampling efforts were completed on February 29, 2012. Results were received by DTSC on March 7, 2012 and accepted/approved by DTSC on April 16, 2012.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 09/03/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/21/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Completed Document Type: RCRA Facility Assessment Report
Completed Date: 06/30/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Selection and Statement of Basis
Completed Date: 06/30/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/27/2009
Comments: Letter sent to RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 03/16/2004
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Fact Sheets
Schedule Due Date: 05/22/2017
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Public Notice
Schedule Due Date: 01/12/2017
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Corrective Action Completion Determination
Schedule Due Date: 06/29/2017
Schedule Revised Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Land Use Restriction
Schedule Due Date: 11/30/2016
Schedule Revised Date: 03/10/2017

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 10/29/2014
Global Id: SL603798883
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 34.116153
Longitude: -117.933994
Case Type: Cleanup Program Site

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Case Worker:	GJH
Local Agency:	Not reported
RB Case Number:	108.0566
File Location:	Not reported
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SWEEPS UST:

Status:	Active
Comp Number:	10060
Number:	9
Board Of Equalization:	Not reported
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

HIST UST:

File Number:	00028BB9
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028BB9.pdf
Region:	STATE
Facility ID:	00000008036
Facility Type:	Other
Other Type:	MANUFACTUR
Contact Name:	RAY STAPP
Telephone:	8183342908
Owner Name:	THE NORAC COMPANY, INC.
Owner Address:	405 S. MOTOR AVE
Owner City,St,Zip:	AZUSA, CA 91702
Total Tanks:	0018
Tank Num:	001
Container Num:	#1
Year Installed:	Not reported
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	None
Tank Num:	002
Container Num:	#2
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Type of Fuel:	Not reported
Container Construction Thickness:	3/16 2
Leak Detection:	None
Tank Num:	003
Container Num:	#3
Year Installed:	1973
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	None
Tank Num:	004
Container Num:	#4
Year Installed:	1973
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	None
Tank Num:	005
Container Num:	#5
Year Installed:	1973
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	006
Container Num:	#6
Year Installed:	1973
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	007
Container Num:	#7
Year Installed:	1973
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	None
Tank Num:	008
Container Num:	#8
Year Installed:	1973
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Tank Num:	009
Container Num:	#9
Year Installed:	1963
Tank Capacity:	00002100
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

Tank Num:	010
Container Num:	#10
Year Installed:	1973
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor

Tank Num:	011
Container Num:	#11
Year Installed:	1956
Tank Capacity:	00000267
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	7
Leak Detection:	Visual

Tank Num:	012
Container Num:	#12
Year Installed:	1962
Tank Capacity:	00002681
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	10
Leak Detection:	Visual

Tank Num:	013
Container Num:	#13
Year Installed:	1962
Tank Capacity:	00002500
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	8
Leak Detection:	Visual

Tank Num:	014
Container Num:	#14
Year Installed:	1964
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	5
Leak Detection:	Visual

Tank Num:	015
Container Num:	#15
Year Installed:	1973

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Tank Capacity:	00001250
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	3
Leak Detection:	Visual

Tank Num:	016
Container Num:	#16
Year Installed:	Not reported
Tank Capacity:	00000220
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	3
Leak Detection:	Visual

Tank Num:	017
Container Num:	#17
Year Installed:	1983
Tank Capacity:	00001250
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	3
Leak Detection:	Visual

Tank Num:	018
Container Num:	#18
Year Installed:	1964
Tank Capacity:	00000110
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	3
Leak Detection:	None

Click here for Geo Tracker PDF:

HWP:

EPA Id:	CAD008352957
Cleanup Status:	UNDERGOING CLOSURE
Latitude:	34.11577
Longitude:	-117.9351
Facility Type:	Historical - Non-Operating
Facility Size:	Not reported
Team:	Not reported
Supervisor:	Not reported
Site Code:	300305
Assembly District:	48
Senate District:	22
Public Information Officer:	Not reported
Public Information Officer:	Not reported

Activities:

EPA Id:	CAD008352957
Facility Type:	Historical - Non-Operating
Unit Names:	CONTAIN1, TANKSTR1, TANKSTR2
Event Description:	New Operating Permit - APPLICATION PART B RECEIVED
Actual Date:	04/08/1983

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date: 12/30/1983

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 06/24/1983

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 08/23/1983

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date: 08/29/1983

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - FINAL PERMIT
Actual Date: 12/30/1983

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST RECEIVED
Actual Date: 12/14/1988

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 12/14/1988

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - FINAL PERMIT (EXPIRES)
Actual Date: 12/30/1988

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: New Operating Permit - DRAFT PERMIT
Actual Date: 08/29/1983

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 02/07/1983

Closure:
EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Closure - RESPONSE TO 1ST NOD RECEIVED
Actual Date: 09/01/1992

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Closure - PUBLIC COMMENT (BEGIN)
Actual Date: 10/28/1993

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Closure - PUBLIC COMMENT (END)
Actual Date: 10/28/1993

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Closure - CLOSURE PLAN RECEIVED
Actual Date: 04/15/1991

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Closure - 1ST NOTICE OF DEFICIENCY ISSUED
Actual Date: 06/11/1992

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Closure - CLOSURE PLAN APPROVED
Actual Date: 03/02/1994

EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, TANKSTR1, TANKSTR2
Event Description: Referred for closure to other agency - REFERRED FOR CLOSURE TO OTHER AGENCY
Actual Date: 09/29/2014

Alias:
EPA Id: CAD008352957
Facility Type: Historical - Non-Operating
Alias Type: Project Code (Site Code)
Alias: 300305

NPDES:
Npdes Number: CAS000001
Facility Status: Active

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Agency Id:	0
Region:	4
Regulatory Measure Id:	435081
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19I024083
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/19/2013
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	NoracPharma
Discharge Address:	405 South Motor Ave
Discharge City:	Azusa
Discharge State:	California
Discharge Zip:	91702
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	189150
Order No:	Not reported
Regulatory Measure Type:	Industrial
Place Id:	Not reported
WDID:	4 19I003426
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	5/9/2008
PROCESSED DATE:	4/3/1992
STATUS CODE NAME:	Active
STATUS DATE:	4/3/1992
PLACE SIZE:	3
PLACE SIZE UNIT:	52
FACILITY CONTACT NAME:	Robert Summers
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	626-334-2908
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Norac Inc
OPERATOR ADDRESS:	405 S Motor Ave
OPERATOR CITY:	Azusa
OPERATOR STATE:	California
OPERATOR ZIP:	91702
OPERATOR CONTACT NAME:	Robert Summers
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	626-334-2908
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	rsummers@norac.com

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	California
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	626-334-2908
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Big Dalton Wash
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	2869-Industrial Organic Chemicals, NEC
SECONDARY SIC:	2834-Pharmaceutical Preparations
TERTIARY SIC:	Not reported

WIP:

Region:	4
File Number:	108.0566
File Status:	**Backlog**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

ICE:

Envirostor ID:	3002194
EPA ID:	CAD008352957
Site Type:	INSPECTION
Facility Status:	No Action

Inspection:

Action Type:	Financial Records Review - Treatment, Storage and Disposal
Action Date:	05/19/2008
Violation Class:	Class 2
RTC Date:	06/20/2008
Action Type:	Financial Records Review - Treatment, Storage and Disposal
Action Date:	06/27/2007

NORAC PHARMA (S&B PHARMA DBA NORAC PHARMA) (Continued) **U001568706**

Violation Class: Class 2, Minor
RTC Date: 06/20/2008

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 04/15/2008
Violation Class: Minor
RTC Date: 05/09/2008

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 06/20/2007
Violation Class: No Violations
RTC Date: Not reported

Action Type: Compliance Evaluation Inspection - Treatment, Storage and Disposal
Action Date: 11/25/2014
Violation Class: No Violations
RTC Date: Not reported

U124 **NORAC PHARMA** **CORRACTS** **1000143907**
NNE **405 SOUTH MOTOR AVENUE** **RCRA-TSDF** **91702THNRC405SM**
1/2-1 **AZUSA, CA 91702** **RCRA-LQG**
0.923 mi. **TRIS**
4873 ft. **Site 2 of 2 in cluster U**

Relative: Higher

CORRACTS:

Actual: 507 ft.

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19900601
Action: CA029EP
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19900601
Action: CA049PA
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19900601
Action: CA074LO
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

NORAC PHARMA (Continued) **1000143907**

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19900601
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19980903
Action: CA050RF - RFA Completed, Assessment was an RFA
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20060214
Action: CA150 - RFI Workplan Approved
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 20040316
Action: CA100 - RFI Imposition
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19990630
Action: CA050RF - RFA Completed, Assessment was an RFA
NAICS Code(s): 325411
Medicinal and Botanical Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008352957
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: Not reported
Action: CA03191
NAICS Code(s): 325411

NORAC PHARMA (Continued) **1000143907**

Medicinal and Botanical Manufacturing
Original schedule date: 19911001
Schedule end date: Not reported

RCRA-TSDF:
Date form received by agency: 02/26/2016
Facility name: NORAC PHARMA
Facility address: 405 SOUTH MOTOR AVENUE
AZUSA, CA 91702
EPA ID: CAD008352957
Mailing address: SOUTH MOTOR AVENUE
AZUSA, CA 91702
Contact: ROBERT SUMMERS
Contact address: SOUTH MOTOR AVENUE
AZUSA, CA 91702
Contact country: US
Contact telephone: (626) 334-2908
Contact email: RSUMMERS@NORACPHARMA.COM
EPA Region: 09
Land type: Private
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: S&B PHARMA DBA NORAC PHARMA
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2013
Owner/Op end date: Not reported

Owner/operator name: S&B PHARMA
Owner/operator address: SOUTH MOTOR AVENUE
AZUSA, CA 91702
Owner/operator country: US
Owner/operator telephone: 16263342908
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/2013

NORAC PHARMA (Continued) **1000143907**

Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 122
. Waste name: 122

. Waste code: 123
. Waste name: 123

. Waste code: 134
. Waste name: 134

. Waste code: 212
. Waste name: 212

. Waste code: 213
. Waste name: 213

. Waste code: 214
. Waste name: 214

. Waste code: 331
. Waste name: 331

. Waste code: 351
. Waste name: 351

. Waste code: 352
. Waste name: 352

. Waste code: 551
. Waste name: 551

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

NORAC PHARMA (Continued) **1000143907**

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: P108

NORAC PHARMA (Continued) **1000143907**

. Waste name: STRYCHNIDIN-10-ONE, & SALTS (OR) STRYCHNINE, & SALTS

. Waste code: U118
. Waste name: 2-PROPENOIC ACID, 2-METHYL-, ETHYL ESTER (OR) ETHYL METHACRYLATE

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U123
. Waste name: FORMIC ACID (C,T)

. Waste code: U144
. Waste name: ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE

. Waste code: U161
. Waste name: 4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

. Waste code: U218
. Waste name: ETHANETHIOAMIDE (OR) THIOACETAMIDE

Historical Generators:
Date form received by agency: 03/01/2014
Site name: NORAC PHARMA
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR

NORAC PHARMA (Continued) **1000143907**

MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

Date form received by agency: 01/08/2013
Site name: NORAC PHARMA
Classification: Large Quantity Generator

. Waste code: 122
. Waste name: 122

. Waste code: 133
. Waste name: 133

. Waste code: 134
. Waste name: 134

. Waste code: 211
. Waste name: 211

. Waste code: 212
. Waste name: 212

. Waste code: 213
. Waste name: 213

. Waste code: 214
. Waste name: 214

. Waste code: 331
. Waste name: 331

. Waste code: 343
. Waste name: 343

. Waste code: 351
. Waste name: 351

. Waste code: 352
. Waste name: 352

. Waste code: 551
. Waste name: 551

. Waste code: 741

NORAC PHARMA (Continued) **1000143907**

. Waste name: 741

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR

NORAC PHARMA (Continued) **1000143907**

MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P022
. Waste name: CARBON DISULFIDE

. Waste code: P024
. Waste name: BENZENAMINE, 4-CHLORO- (OR) P-CHLORANILINE

. Waste code: P028
. Waste name: BENZENE, (CHLOROMETHYL)- (OR) BENZYL CHLORIDE

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: U004
. Waste name: ACETOPHENONE (OR) ETHANONE, 1-PHENYL-

. Waste code: U006
. Waste name: ACETYL CHLORIDE (C,R,T)

. Waste code: U037
. Waste name: BENZENE, CHLORO- (OR) CHLOROBENZENE

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U151
. Waste name: MERCURY

. Waste code: U169
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

. Waste code: U170
. Waste name: P-NITROPHENOL (I,T) (OR) PHENOL, 4-NITRO-

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

. Waste code: U218
. Waste name: ETHANETHIOAMIDE (OR) THIOACETAMIDE

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

NORAC PHARMA (Continued) **1000143907**

. Waste code: U353
. Waste name: BENZENAMINE, 4-METHYL- (OR) P-TOLUIDINE

Date form received by agency: 11/02/2012
Site name: NORAC PHARMA
Classification: Large Quantity Generator

. Waste code: 122
. Waste name: 122

. Waste code: 133
. Waste name: 133

. Waste code: 134
. Waste name: 134

. Waste code: 211
. Waste name: 211

. Waste code: 212
. Waste name: 212

. Waste code: 213
. Waste name: 213

. Waste code: 214
. Waste name: 214

. Waste code: 331
. Waste name: 331

. Waste code: 343
. Waste name: 343

. Waste code: 351
. Waste name: 351

. Waste code: 352
. Waste name: 352

. Waste code: 551
. Waste name: 551

. Waste code: 741
. Waste name: 741

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

NORAC PHARMA (Continued) **1000143907**

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: U102
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER (OR) DIMETHYL PHTHALATE

. Waste code: U123
. Waste name: FORMIC ACID (C,T)

. Waste code: U194

NORAC PHARMA (Continued) **1000143907**

. Waste name: 1-PROPANAMINE (I,T) (OR) N-PROPYLAMINE (I,T)

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

. Waste code: U218
. Waste name: ETHANETHIOAMIDE (OR) THIOACETAMIDE

. Waste code: U404
. Waste name: ETHANAMINE, N,N-DIETHYL- (OR) TRIETHYLAMINE

Date form received by agency: 05/28/2010
Site name: NORAC PHARMA
Classification: Large Quantity Generator

. Waste code: 122
. Waste name: 122

. Waste code: 133
. Waste name: 133

. Waste code: 134
. Waste name: 134

. Waste code: 211
. Waste name: 211

. Waste code: 212
. Waste name: 212

. Waste code: 213
. Waste name: 213

. Waste code: 214
. Waste name: 214

. Waste code: 331
. Waste name: 331

. Waste code: 343
. Waste name: 343

. Waste code: 351
. Waste name: 351

. Waste code: 352
. Waste name: 352

. Waste code: 551
. Waste name: 551

. Waste code: 741
. Waste name: 741

NORAC PHARMA (Continued) **1000143907**

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT

NORAC PHARMA (Continued) **1000143907**

MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P022
. Waste name: CARBON DISULFIDE

. Waste code: P024
. Waste name: BENZENAMINE, 4-CHLORO- (OR) P-CHLORANILINE

. Waste code: P028
. Waste name: BENZENE, (CHLOROMETHYL)- (OR) BENZYL CHLORIDE

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: U004
. Waste name: ACETOPHENONE (OR) ETHANONE, 1-PHENYL-

. Waste code: U006
. Waste name: ACETYL CHLORIDE (C,R,T)

. Waste code: U037
. Waste name: BENZENE, CHLORO- (OR) CHLOROBENZENE

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U151
. Waste name: MERCURY

. Waste code: U169
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

. Waste code: U170
. Waste name: P-NITROPHENOL (I,T) (OR) PHENOL, 4-NITRO-

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

. Waste code: U218
. Waste name: ETHANETHIOAMIDE (OR) THIOACETAMIDE

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

. Waste code: U353

NORAC PHARMA (Continued) **1000143907**

. Waste name: BENZENAMINE, 4-METHYL- (OR) P-TOLUIDINE

Date form received by agency: 02/29/2008
Site name: NORAC, INC.
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D021
. Waste name: CHLOROBENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003

NORAC PHARMA (Continued) **1000143907**

. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: P022
. Waste name: CARBON DISULFIDE

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P039
. Waste name: DISULFOTON (OR) PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-[2-(ETHYLTHIO)ETHYL] ESTER

. Waste code: P050
. Waste name: 6,9-METHANO-2,4,3-BENZODIOXATHIEPIN,6,7,8,9,10,10-HEXACHLORO-1,5,5A,6, ,9A-HEXAHYDRO-,3-OXIDE (OR) ENDOSULFAN

. Waste code: P064
. Waste name: METHANE, ISOCYANATO- (OR) METHYL ISOCYANATE

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U007
. Waste name: 2-PROPENAMIDE (OR) ACRYLAMIDE

. Waste code: U008
. Waste name: 2-PROPENOIC ACID (I) (OR) ACRYLIC ACID (I)

. Waste code: U017
. Waste name: BENZAL CHLORIDE (OR) BENZENE, (DICHLOROMETHYL)-

. Waste code: U037
. Waste name: BENZENE, CHLORO- (OR) CHLOROBENZENE

. Waste code: U041
. Waste name: EPICHLOROHYDRIN (OR) OXIRANE, (CHLOROMETHYL)-

NORAC PHARMA (Continued) **1000143907**

. Waste code: U067
. Waste name: ETHANE, 1,2-DIBROMO- (OR) ETHYLENE DIBROMIDE

. Waste code: U068
. Waste name: METHANE, DIBROMO- (OR) METHYLENE BROMIDE

. Waste code: U103
. Waste name: DIMETHYL SULFATE (OR) SULFURIC ACID, DIMETHYL ESTER

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U144
. Waste name: ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE

. Waste code: U147
. Waste name: 2,5-FURANDIONE (OR) MALEIC ANHYDRIDE

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U159
. Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

. Waste code: U169
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

. Waste code: U190
. Waste name: 1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U223
. Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)

Date form received by agency: 02/28/2006
Site name: NORAC, INC.
Classification: Large Quantity Generator

. Waste code: 122
. Waste name: 122

. Waste code: 134
. Waste name: 134

. Waste code: 141
. Waste name: 141

. Waste code: 212
. Waste name: 212

NORAC PHARMA (Continued) **1000143907**

. Waste code: 213
. Waste name: 213

. Waste code: 214
. Waste name: 214

. Waste code: 221
. Waste name: 221

. Waste code: 331
. Waste name: 331

. Waste code: 352
. Waste name: 352

. Waste code: 551
. Waste name: 551

. Waste code: 741
. Waste name: 741

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

NORAC PHARMA (Continued) **1000143907**

SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U068
. Waste name: METHANE, DIBROMO- (OR) METHYLENE BROMIDE

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

Date form received by agency: 02/27/2004
Site name: NORAC, INC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003

NORAC PHARMA (Continued) **1000143907**

. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U029
. Waste name: METHANE, BROMO- (OR) METHYL BROMIDE

. Waste code: U147
. Waste name: 2,5-FURANDIONE (OR) MALEIC ANHYDRIDE

Date form received by agency: 03/08/2002
Site name: NORAC, INC.
Classification: Large Quantity Generator

. Waste code: 122
. Waste name: 122

. Waste code: 135
. Waste name: 135

. Waste code: 151
. Waste name: 151

. Waste code: 181
. Waste name: 181

. Waste code: 211
. Waste name: 211

. Waste code: 212
. Waste name: 212

. Waste code: 214
. Waste name: 214

. Waste code: 331
. Waste name: 331

. Waste code: 343
. Waste name: 343

NORAC PHARMA (Continued) **1000143907**

. Waste code: 351
. Waste name: 351

. Waste code: 352
. Waste name: 352

. Waste code: 491
. Waste name: 491

. Waste code: 551
. Waste name: 551

. Waste code: 791
. Waste name: 791

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D009
. Waste name: MERCURY

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF

NORAC PHARMA (Continued) **1000143907**

THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: U135
. Waste name: HYDROGEN SULFIDE (OR) HYDROGEN SULFIDE H2S

Date form received by agency: 10/12/2000
Site name: AZUSA
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: THE NORAC COMPANY, INC
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: NORAC CO INC THE
Classification: Large Quantity Generator

Date form received by agency: 04/01/1996
Site name: THE NORAC COMPANY, INC.
Classification: Large Quantity Generator

Date form received by agency: 04/28/1994
Site name: NORAC COMPANY INC
Classification: Large Quantity Generator

Date form received by agency: 02/26/1992
Site name: THE NORAC CO., INC.
Classification: Large Quantity Generator

Date form received by agency: 07/14/1980
Site name: NORAC CO INC THE
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 43216

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 11343

NORAC PHARMA (Continued) **1000143907**

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
Amount (Lbs): 2785.6

Waste code: D005
Waste name: BARIUM
Amount (Lbs): 100

Waste code: D006
Waste name: CADMIUM
Amount (Lbs): 100

Waste code: D008
Waste name: LEAD
Amount (Lbs): 482

Waste code: D010
Waste name: SELENIUM
Amount (Lbs): 1335

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 482

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 10356

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 17688

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS

NORAC PHARMA (Continued) **1000143907**

CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 15460

Waste code: P098
Waste name: POTASSIUM CYANIDE
Amount (Lbs): 6.6

Waste code: U102
Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER
Amount (Lbs): 482

Waste code: U123
Waste name: FORMIC ACID (C,T)
Amount (Lbs): 482

Waste code: U194
Waste name: 1-PROPANAMINE (I,T)
Amount (Lbs): 482

Waste code: U196
Waste name: PYRIDINE
Amount (Lbs): 482

Waste code: U213
Waste name: FURAN, TETRAHYDRO-(I)
Amount (Lbs): 482

Waste code: U218
Waste name: ETHANETHIOAMIDE
Amount (Lbs): 482

Waste code: U404
Waste name: ETHANAMINE, N,N-DIETHYL- (OR) TRIETHYLAMINE
Amount (Lbs): 482

Corrective Action Summary:
Event date: 06/01/1990
Event: CA029EP

Event date: 06/01/1990
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 06/01/1990
Event: CA049PA

Event date: 06/01/1990
Event: CA074LO

Event date: 09/03/1998
Event: RFA Completed, Assessment was an RFA.

Event date: 06/30/1999

NORAC PHARMA (Continued) **1000143907**

Event: RFA Completed, Assessment was an RFA.

Event date: 03/16/2004
Event: RFI Imposition

Event date: 02/14/2006
Event: RFI Workplan Approved

Event date: Not reported
Event: CA03191

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 05/19/2008
Date achieved compliance: 06/20/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/19/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date violation determined: 04/15/2008
Date achieved compliance: 05/09/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/18/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 04/15/2008
Date achieved compliance: 05/09/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/18/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 06/27/2007

NORAC PHARMA (Continued) **1000143907**

Date achieved compliance: 06/20/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/10/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 06/27/2007
Date achieved compliance: 02/06/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/10/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
Enforcement action date: 06/01/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005

NORAC PHARMA (Continued) **1000143907**

Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 09/14/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 09/14/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA

NORAC PHARMA (Continued) **1000143907**

Enforcement action: LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
Enforcement action date: 06/01/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 03/15/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
Enforcement action date: 06/01/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 03/15/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER

NORAC PHARMA (Continued) **1000143907**

Enforcement action date: 09/14/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/26/2005
Date achieved compliance: 09/14/2005
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 03/15/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 02/28/1996
Date achieved compliance: 03/08/1996
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 02/28/1996
Date achieved compliance: 03/08/1996
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 11/21/1991
Date achieved compliance: 01/01/1992
Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 09/14/2005

NORAC PHARMA (Continued) **1000143907**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 11/21/1991
Date achieved compliance: 01/01/1992
Violation lead agency: EPA
Enforcement action: LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
Enforcement action date: 06/01/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 11/21/1991
Date achieved compliance: 01/01/1992
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/02/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 05/28/1991
Date achieved compliance: 02/13/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/12/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 03/31/1989
Date achieved compliance: 03/02/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/24/1988
Enf. disposition status: Not reported

NORAC PHARMA (Continued) **1000143907**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 03/31/1989
Date achieved compliance: 03/02/1991
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 06/19/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 03/28/1989
Date achieved compliance: 03/22/1991
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/03/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 265000
Final penalty amount: 90000
Paid penalty amount: 90000

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 03/28/1989
Date achieved compliance: 03/22/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/11/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 03/28/1989
Date achieved compliance: 03/22/1991
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 05/03/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

NORAC PHARMA (Continued) **1000143907**

Enforcement lead agency: State
Proposed penalty amount: 265000
Final penalty amount: 90000
Paid penalty amount: 90000

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 03/28/1989
Date achieved compliance: 03/22/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/11/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 03/28/1989
Date achieved compliance: 03/22/1991
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/10/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 55000
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 03/28/1989
Date achieved compliance: 03/22/1991
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 08/10/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 55000
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 01/09/1987
Date achieved compliance: 01/09/1987
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported

NORAC PHARMA (Continued) **1000143907**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 11/26/1986
Date achieved compliance: 01/09/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/27/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 02/10/2016
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/25/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/11/2013
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/24/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/19/2008
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 06/20/2008
Evaluation lead agency: State

Evaluation date: 04/15/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Contingency Plan and Emergency Procedures
Date achieved compliance: 05/09/2008
Evaluation lead agency: State

Evaluation date: 04/15/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

NORAC PHARMA (Continued) **1000143907**

Area of violation: Generators - Records/Reporting
Date achieved compliance: 05/09/2008
Evaluation lead agency: State

Evaluation date: 06/27/2007
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 02/06/2008
Evaluation lead agency: State

Evaluation date: 06/27/2007
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 06/20/2008
Evaluation lead agency: State

Evaluation date: 06/20/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/14/2005
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 01/26/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 09/14/2005
Evaluation lead agency: EPA

Evaluation date: 01/26/2005
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 01/26/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/14/2005
Evaluation lead agency: EPA

Evaluation date: 01/26/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Records/Reporting
Date achieved compliance: 09/14/2005
Evaluation lead agency: EPA

Evaluation date: 02/28/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 01/09/1987
Evaluation lead agency: State

NORAC PHARMA (Continued) **1000143907**

Evaluation date: 02/28/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/08/1996
Evaluation lead agency: State

Evaluation date: 11/21/1991
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 01/01/1992
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 05/28/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 02/13/1992
Evaluation lead agency: State

Evaluation date: 03/31/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/02/1991
Evaluation lead agency: State

Evaluation date: 03/28/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 03/22/1991
Evaluation lead agency: State

Evaluation date: 03/28/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/22/1991
Evaluation lead agency: State

Evaluation date: 11/26/1986
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 01/09/1987
Evaluation lead agency: State

Evaluation date: 11/19/1986
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

TRIS:

Click this hyperlink while viewing on your computer to access
2 additional US_TRIS: record(s) in the EDR Site Report.

125 South 1/2-1 0.971 mi. 5125 ft.

CONCORDE/INTERSPACE BATTERY CORP.
2009 SAN BERNADINO ROAD
WEST COVINA, CA 91790

ENVIROSTOR **S110493750**
N/A

Relative: Lower

Actual: 407 ft.

ENVIROSTOR:

Facility ID:	71002894
Status:	Refer: Other Agency
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Chatsworth
Assembly:	48
Senate:	22
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.06862
Longitude:	-117.9389
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD981632979
Alias Type:	EPA Identification Number
Alias Name:	110000478395
Alias Type:	EPA (FRS #)
Alias Name:	71002894
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

126
NNE
1/2-1
0.975 mi.
5149 ft.

BROTHERS PLATING
334 S MOTOR AVE
AZUSA, CA 91702

ENVIROSTOR
HIST UST
EMI
WIP

U001568662
N/A

Relative:
Higher

Actual:
511 ft.

ENVIROSTOR:

Facility ID:	71003297
Status:	Refer: Other Agency
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Chatsworth
Assembly:	48
Senate:	22
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.11695
Longitude:	-117.9348
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAL000091566
Alias Type:	EPA Identification Number
Alias Name:	71003297
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

HIST UST:

File Number:	00027EED
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027EED.pdf
Region:	STATE

BROTHERS PLATING (Continued) **U001568662**

Facility ID:	00000047254
Facility Type:	Other
Other Type:	Not reported
Contact Name:	RAYMOND MEDINA
Telephone:	8183343413
Owner Name:	RAYMOND AND IGNACIO MEDINA
Owner Address:	334 S. MOTOR AVE
Owner City,St,Zip:	AZUSA, CA 91702
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	1982
Tank Capacity:	00000600
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	44584
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0
Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	44584
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

BROTHERS PLATING (Continued) **U001568662**

WIP:
Region: 4
File Number: 108.0953
File Status: Historical
Staff: DRASMUSS
Facility Suite: Not reported

Count: 7 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
AZUSA	S107530220		1900 AZUSA & SAN GABRIEL CANYO		CDL
AZUSA	S103441502	AZUSA DUMP OWL 4X	AZUSA	91702	LUST, WMUDS/SWAT, HIST Cal-Sites
AZUSA	S102628475	UNOCAL #5411	295 AZUSA AVE S	91702	LUST, HIST CORTESE
BALDWIN PARK	S100833442	SAN GABRIEL GROUND WATER BASIN 2	BALDWIN PARK AREA	91706	CA BOND EXP. PLAN
LOS ANGELES COUNTY	S107541010		VEH STOP: AZUSA & AROMA AVE		CDL
WEST COVINA	S100714948	SAN GABRIEL VALLEY MOSQUITO ABATEM	1145 & 1133 NORTH AZUSA CANYRO	91790	ENVIROSTOR
WEST COVINA	S107528471		140 W AZUSA AVE (EL DORADO MOT	91790	CDL

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 08/05/2016
Date Data Arrived at EDR: 10/05/2016
Date Made Active in Reports: 01/06/2017
Number of Days to Update: 93

Source: EPA
Telephone: N/A
Last EDR Contact: 01/05/2017
Next Scheduled EDR Contact: 04/17/2017
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 08/05/2016
Date Data Arrived at EDR: 10/05/2016
Date Made Active in Reports: 01/06/2017
Number of Days to Update: 93

Source: EPA
Telephone: N/A
Last EDR Contact: 01/05/2017
Next Scheduled EDR Contact: 04/17/2017
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 08/05/2016
Date Data Arrived at EDR: 10/05/2016
Date Made Active in Reports: 01/06/2017
Number of Days to Update: 93

Source: EPA
Telephone: N/A
Last EDR Contact: 01/05/2017
Next Scheduled EDR Contact: 04/17/2017
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 09/14/2016
Date Data Arrived at EDR: 10/04/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 01/05/2017
Next Scheduled EDR Contact: 04/17/2017
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/10/2016
Date Data Arrived at EDR: 10/20/2016
Date Made Active in Reports: 01/06/2017
Number of Days to Update: 78

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/06/2017
Next Scheduled EDR Contact: 05/01/2017
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 10/10/2016
Date Data Arrived at EDR: 10/20/2016
Date Made Active in Reports: 01/06/2017
Number of Days to Update: 78
Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/06/2017
Next Scheduled EDR Contact: 05/01/2017
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/28/2016
Date Made Active in Reports: 01/06/2017
Number of Days to Update: 100
Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/28/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/28/2016
Date Made Active in Reports: 01/06/2017
Number of Days to Update: 100
Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/28/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/28/2016
Date Made Active in Reports: 01/06/2017
Number of Days to Update: 100
Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/28/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/28/2016
Date Made Active in Reports: 01/06/2017
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/28/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/28/2016
Date Made Active in Reports: 01/06/2017
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/28/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/18/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/09/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/29/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/09/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/29/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/28/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 08/15/2016
Date Data Arrived at EDR: 08/16/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 50

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/15/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 11/01/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 44

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 112
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015
Date Data Arrived at EDR: 02/19/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 105
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

SLIC: Statewide SLIC Cases
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/13/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 31
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/11/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/15/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 119
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015
Date Data Arrived at EDR: 02/04/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 120
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Semi-Annually

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/27/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 02/29/2016
Date Data Arrived at EDR: 03/07/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 58
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 01/04/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/20/2016
Date Data Arrived at EDR: 09/21/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 51
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/20/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30
Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 08/25/2016
Date Data Arrived at EDR: 08/26/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 49

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/04/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 08/31/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/31/2016
Date Data Arrived at EDR: 11/01/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/01/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 08/31/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 34

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/09/2017
Next Scheduled EDR Contact: 04/24/2017
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/29/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/01/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/25/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 37
Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/27/2016
Date Data Arrived at EDR: 06/28/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 87
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/28/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 01/17/2017
Number of Days to Update: 83
Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 10/26/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/13/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 31
Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/13/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 31
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/28/2016
Date Made Active in Reports: 01/06/2017
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/28/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/08/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/13/2017
Next Scheduled EDR Contact: 04/24/2017
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/13/2017
Next Scheduled EDR Contact: 04/24/2017
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/17/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 07/12/2016
Date Data Arrived at EDR: 08/17/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 65

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/08/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/23/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133
Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74
Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 81
Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 11/18/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/13/2017
Next Scheduled EDR Contact: 04/24/2017
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/27/2016
Date Data Arrived at EDR: 08/05/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 77
Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 01/09/2017
Next Scheduled EDR Contact: 04/24/2017
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/17/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 11/17/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/03/2016
Date Data Arrived at EDR: 10/05/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 16
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/06/2017
Next Scheduled EDR Contact: 04/17/2017
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/02/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/09/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/23/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/13/2017
Next Scheduled EDR Contact: 04/24/2017
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/21/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/08/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/07/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 148

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/05/2017
Next Scheduled EDR Contact: 04/17/2017
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 88

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 88

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/05/2016
Date Data Arrived at EDR: 09/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 22

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/01/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/12/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/15/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 65

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 12/05/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/27/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 52

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/28/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/27/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 09/23/2016
Date Made Active in Reports: 10/24/2016
Number of Days to Update: 31

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/23/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 12/09/2016
Date Made Active in Reports: 01/18/2017
Number of Days to Update: 40

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 11/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/10/2016
Date Data Arrived at EDR: 08/15/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 51

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/09/2017
Next Scheduled EDR Contact: 04/24/2017
Data Release Frequency: Annually

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/11/2017
Next Scheduled EDR Contact: 04/24/2017
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 01/13/2017
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 37

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/16/2016
Date Data Arrived at EDR: 05/18/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 36

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/15/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 37

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/19/2016
Date Data Arrived at EDR: 09/20/2016
Date Made Active in Reports: 12/16/2016
Number of Days to Update: 87

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/16/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/13/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

ICE: ICE
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 43
Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/18/2016
Date Data Arrived at EDR: 09/20/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 31
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 12/20/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/23/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 59
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 81
Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/09/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/14/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 35

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/06/2017
Next Scheduled EDR Contact: 04/24/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/10/2016
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 90

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/09/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 11/10/2016
Date Data Arrived at EDR: 12/13/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 9

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 10/21/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 23

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/09/2017
Next Scheduled EDR Contact: 04/24/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 10/25/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 22

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/27/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 08/24/2016
Date Made Active in Reports: 10/10/2016
Number of Days to Update: 47

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 11/01/2016
Date Data Arrived at EDR: 11/03/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 19

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/22/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 01/17/2017
Number of Days to Update: 55

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/11/2016
Date Data Arrived at EDR: 10/14/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 35

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 01/03/2017
Next Scheduled EDR Contact: 04/17/2017
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 10/25/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 22

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 10/24/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 22

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/08/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 63

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/14/2016
Date Data Arrived at EDR: 12/16/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 6

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 09/08/2016
Date Data Arrived at EDR: 09/09/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 35

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/17/2017
Next Scheduled EDR Contact: 05/01/2017
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 12/15/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/05/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 37

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/09/2017
Next Scheduled EDR Contact: 04/24/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 10/18/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 58

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/18/2017
Next Scheduled EDR Contact: 05/01/2017
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/17/2017
Next Scheduled EDR Contact: 05/01/2017
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/17/2017
Next Scheduled EDR Contact: 05/01/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/17/2017
Next Scheduled EDR Contact: 05/01/2017
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 34
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/04/2016
Date Data Arrived at EDR: 10/11/2016
Date Made Active in Reports: 01/12/2017
Number of Days to Update: 93
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/09/2017
Next Scheduled EDR Contact: 04/24/2017
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/18/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 32
Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 10/19/2016
Date Data Arrived at EDR: 10/25/2016
Date Made Active in Reports: 01/12/2017
Number of Days to Update: 79
Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 01/17/2017
Next Scheduled EDR Contact: 04/17/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/17/2017
Number of Days to Update: 42

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/05/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 17

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 01/09/2017
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/08/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 44

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/15/2016
Date Made Active in Reports: 10/05/2016
Number of Days to Update: 51

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 08/03/2016
Date Data Arrived at EDR: 08/15/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 53

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 11/03/2016
Date Data Arrived at EDR: 11/08/2016
Date Made Active in Reports: 01/12/2017
Number of Days to Update: 65

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/08/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/20/2016
Date Data Arrived at EDR: 10/25/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 51

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/19/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/20/2016
Date Data Arrived at EDR: 10/25/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 77
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/19/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 10/04/2016
Date Made Active in Reports: 11/18/2016
Number of Days to Update: 45
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/05/2017
Next Scheduled EDR Contact: 04/17/2017
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/22/2016
Date Data Arrived at EDR: 10/04/2016
Date Made Active in Reports: 12/16/2016
Number of Days to Update: 73
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/05/2017
Next Scheduled EDR Contact: 04/17/2017
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/06/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 10/19/2016
Number of Days to Update: 42
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23
Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 12/21/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/16/2016
Date Data Arrived at EDR: 11/21/2016
Date Made Active in Reports: 01/12/2017
Number of Days to Update: 52
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 09/21/2016
Date Data Arrived at EDR: 09/22/2016
Date Made Active in Reports: 10/18/2016
Number of Days to Update: 26
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/15/2016
Next Scheduled EDR Contact: 04/03/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/18/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 43
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 15
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/09/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 57
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/09/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 43
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/03/2016
Date Data Arrived at EDR: 08/08/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 60

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/04/2016
Number of Days to Update: 43

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/15/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 29

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/21/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 1

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/09/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/22/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 19

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/09/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 09/27/2016
Date Data Arrived at EDR: 09/28/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 55

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/04/2016
Date Data Arrived at EDR: 10/06/2016
Date Made Active in Reports: 12/16/2016
Number of Days to Update: 71

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/22/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 10/27/2016
Date Data Arrived at EDR: 10/28/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 74

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 01/17/2017
Number of Days to Update: 82

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/30/2016
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/14/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Quarterly

Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 06/28/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 10/07/2016
Number of Days to Update: 67
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/28/2016
Date Data Arrived at EDR: 12/14/2016
Date Made Active in Reports: 01/12/2017
Number of Days to Update: 29
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/14/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/12/2017
Number of Days to Update: 55
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 01/03/2017
Next Scheduled EDR Contact: 04/17/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 10/28/2016
Date Data Arrived at EDR: 11/03/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 42
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 01/03/2017
Number of Days to Update: 96

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/09/2017
Next Scheduled EDR Contact: 04/24/2017
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 11/02/2016
Date Made Active in Reports: 01/04/2017
Number of Days to Update: 63

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/02/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/12/2017
Next Scheduled EDR Contact: 05/01/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/12/2016
Next Scheduled EDR Contact: 03/27/2017
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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APPENDIX F

REGULATORY AGENCY RECORDS

TRANS: INSP HMS INSPECTION DISPLAY/UPDATE OPER: E495068
PROG: PWC160 12/03/09 09:24:06

ACTION: B (A)DD (C)HANGE (D)ELETE (B)ROWSE A(S)SC # BROWSE
FILE #: 003755 I03882 NAME: VERIZON CALIFORNIA SEC? N STAT: PERM
STREET #: 5010 FR: DR: N NAME: AZUSA CANYON SF: RD UN:
CITY: IRWINDALE ZIP: 91706 AREA: 3S TEL: 626 960 3175
INSP #: I 000629762 INSP TYPE: I SCHI INSP DT: 102909 INSP DISP: Comp
ASSC #: P 000009136 ASSC # TYPE: I 01 ASSC # DT: 070687 ASSC # DISP: PERM

INSP PROC: STD_____ SAMP REQ? _ SELF MONT? _

INSP INFO: CALL_ZACH_FEINGOLD_B4_INSP_@909.620.5498,MECHANICS_ON-SITE_3:30_TH-_
TH,12:00_FRI;_CELL_#909-282-2070_____

RESULTS: S.B. - no oil, solids or sludge, Last stg - no oil/sludge, Field pH = 7. Wash rack drains, no debris, Haz waste manifest reviewed. No runoff/spills.

ASSIGN DT: 102909 DUE DT: 112809 ASSIGN TO: 47913_ CMB___
START DT: _____ COMP DT: 11/25/09 COMP BY: _____ CMB
DMS LINK: HTTP://PWDMS04/CSHMSEPDUSTRESULTS.ASP?DOCNO=000629762&DOCTYPE=INSP
LAST TRAN/DATE/OPER: INSP 113009 E495068

END OF ENTRIES

Consent to inspect - Zach Feingold

L.A. COUNTY DPW
DATE COMPILED: 02/09/09
RUN DATE: 02/25/10 18:00:19

HAZARDOUS MATERIALS SYSTEM
IW INSPECTION JOB ORDER
SCHEDULED INSPECTIONS

REPORT: PWB150.001
INSP#: I000640048
ASSC#: P000009136

FILE #: 003755-I03882 NAME: VERIZON CALIFORNIA
ADD: 5010 N AZUSA CANYON RD
IRWINDALE, CA 91706 AREA: 3S SMD: 99
XSTREET: ARROW HWY THOMAS GUIDE: 0598-E3
CONTACT: ZACH FEINGOLD-ENVTL COMPLIANCE TEL: 909 613 1554
AIN: 8413 003 013

PROC: STD SAMPLE REQUIRED? N

INSP INFO: CALL ZACH FEINGOLD B4 INSP @909.620.5498,MECHANICS ON-SITE 3:30 TH-TH,12:00 FRI; CELL #909-282-2070

PERM TYPE: I 01 OPERATING PERMIT-LOCAL SEWER STATUS: PERMITTED
JURIS: C LOCAL ORDINANCE/CSDLAC EXEMPT
INDUSTRY: 213 TRUCK REPAIR & EXTERIOR WASHIN
FACILITY: 4D 1001-1250 GAL, 3 COMP, PRECAST
SIC: 7542 CARWASHES
RDS: RDS AREA: SQ FT

	FREQUENCY	LAST PERFORMED	NEXT DUE
INSPECTION	04		03/06/10
SAMPLE	00		
SELF-MONITOR	00		

ASSGN TO: SAN GABRIEL VALLEY OFFICE SECT: FIELD INSPECTION UNIT

==========

RESULTS: S/B - no oil or sludge, Field pH = 7. Last stage - no oil or sludge. No spills in bermed area for hazardous waste storage. No runoff,

REMARKS: Consent to inspect - Zach Feingold

INSPECTOR: Chris Benigno INSPECTION DATE: 03/22/10

DISP: Comp/cmb

L.A. COUNTY DPW — HAZARDOUS MATERIALS SYSTEM — REPORT: PWB150.001
DATE COMPILED: 02/09/09 — IW INSPECTION JOB ORDER — INSP#: I000671589
RUN DATE: 02/28/11 17:58:07 — SCHEDULED INSPECTIONS — ASSC#: P000009136
PAGE: 1

FILE #: 003755-I03882 NAME: VERIZON CALIFORNIA
ADD: 5010 N AZUSA CANYON RD
IRWINDALE, CA 91706 AREA: 3S SMD: 99
XSTREET: ARROW HWY THOMAS GUIDE: 0598-E3
CONTACT: ZACH FEINGOLD-ENVTL COMPLIANCE TEL: 909 613 1554
AIN: 8413 003 013

PROC: STD SAMPLE REQUIRED? N

INSP INFO: CALL ZACH FEINGOLD B4 INSP @909.620.5498,MECHANICS ON-SITE 3:30 TH-TH,12:00 FRI; CELL #909-282-2070

PERM TYPE: I 01 OPERATING PERMIT-LOCAL SEWER STATUS: PERMITTED
JURIS: C LOCAL ORDINANCE/CSDLAC EXEMPT
INDUSTRY: 213 TRUCK REPAIR & EXTERIOR WASHIN
FACILITY: 4D 1001-1250 GAL, 3 COMP, PRECAST
SIC: 7542 CARWASHES
RDS: RDS AREA: SQ FT

	FREQUENCY	LAST PERFORMED	NEXT DUE
INSPECTION	04		03/06/11
SAMPLE	00		
SELF-MONITOR	00		

ASSGN TO: SAN GABRIEL VALLEY OFFICE SECT: FIELD INSPECTION UNIT

==========

RESULTS: Sample box - no oil or solids, Field pH = 7, Last Stg - no oil or solids, Bermed area for hazardous waste storage. No spills or runoff observed.

REMARKS: consent to inspect - Zach Feingold

INSPECTOR: CHRIS BENIGNO INSPECTION DATE: 06/10/11

DISP: Comp/cmb

L.A. COUNTY DPW — HAZARDOUS MATERIALS SYSTEM — REPORT: PWB150.001
DATE COMPILED: 02/09/09 — IW INSPECTION JOB ORDER — INSP#: I000695466
RUN DATE: 10/31/11 17:58:36 — SCHEDULED INSPECTIONS — ASSC#: P000009136
PAGE: 1

FILE #: 003755-I03882 NAME: VERIZON CALIFORNIA
ADD: 5010 N AZUSA CANYON RD
IRWINDALE, CA 91706 AREA: 3S SMD: 99
XSTREET: ARROW HWY THOMAS GUIDE: 0598-E3
CONTACT: ZACH FEINGOLD-ENVTL COMPLIANCE TEL: 909 613 1554
AIN: 8413 003 013

PROC: IW 3X YEAR SAMPLE REQUIRED? N

INSP INFO: CALL ~~ZACH FEINGOLD~~ Massud Chowdhury B4 INSP @909-620-~~5498~~ 5962, MECHANICS ON-SITE 3:30 TH-TH, 12:00 FRI; CELL# 909-282-2070

PERM TYPE: I 01 OPERATING PERMIT-LOCAL SEWER STATUS: PERMITTED
JURIS: C LOCAL ORDINANCE/CSDLAC EXEMPT
INDUSTRY: 213 TRUCK REPAIR & EXTERIOR WASHIN
FACILITY: 4D 1001-1250 GAL, 3 COMP, PRECAST
SIC: 7542 CARWASHES
RDS: RDS AREA: SQ FT

	FREQUENCY	LAST PERFORMED	NEXT DUE
INSPECTION	04		11/06/11
SAMPLE	00		
SELF-MONITOR	00		

ASSGN TO: SAN GABRIEL VALLEY OFFICE SECT: FIELD INSPECTION UNIT

==========

RESULTS: S/B - no oil solids or sludge. Field pH = 7. Last stg - no oil/sludge. Wash rack drain, no debris. Haz waste drums with spill containment.

REMARKS: Consent to inspect - Massud Choudhury
FILF screen updated

INSPECTOR: CHRIS BENIGNO INSPECTION DATE: 11/06/12

DISP: COMP / Cmb

L.A. COUNTY DPW — HAZARDOUS MATERIALS SYSTEM — REPORT: PWB150.001
DATE COMPILED: 02/09/09 — IW INSPECTION JOB ORDER — INSP#: I000716300
RUN DATE: 06/28/12 18:03:36 — SCHEDULED INSPECTIONS — ASSC#: P000009136
PAGE: 1

FILE #: 003755-I03882 NAME: VERIZON CALIFORNIA
ADD: 5010 N AZUSA CANYON RD
IRWINDALE, CA 91706 AREA: 3S SMD: 99
XSTREET: ARROW HWY THOMAS GUIDE: 0598-E3
CONTACT: MASSOUD CHOUDHURY TEL: 909 620 5962
AIN: 8413 003 013

PROC: IW CLASS C SAMPLE REQUIRED? N

INSP INFO: CALL ZACH FEINGOLD BEFORE INSP @909-620-5498
MECHANICS ON-SITE 3:30 T-TH, 12:00 FRI; CELL# 909-282-2070

PERM TYPE: I 01 OPERATING PERMIT-LOCAL SEWER STATUS: PERMITTED
JURIS: C LOCAL ORDINANCE/CSDLAC EXEMPT
INDUSTRY: 213 TRUCK REPAIR & EXTERIOR WASHIN
FACILITY: 4D 1001-1250 GAL, 3 COMP, PRECAST
SIC: 7542 CARWASHES
RDS: RDS AREA: SQ FT

	FREQUENCY	LAST PERFORMED	NEXT DUE
INSPECTION	04		07/06/12
SAMPLE	00		
SELF-MONITOR	00		

ASSGN TO: SAN GABRIEL VALLEY OFFICE SECT: FIELD INSPECTION UNIT

==========

RESULTS: SITE FAX'D MANIFEST AND ANALYTICAL DATA FOR CAR/TRUCK WASH. SITE LAST PUMPED 12/6/11, WILL ARRANGE FOR SITE VISIT TO INSP.

REMARKS: NO ONE USUALLY AT THE LOCATION TO ASSIST.
CITY ACCESS ROSTER

INSPECTOR: Rich [illegible] INSPECTION DATE: 10/29/12

DISP: [illegible]

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1	800-321-[illegible]	120612

GENERATOR

5. Generator's Name and Mailing Address
VERIZON CALIFORNIA INC.
PO BOX 723
CHINO CA 91708
Generator's Phone: 800 [illegible] 5494

AT EACH PERMOLD

Generator's Site Address (if different than mailing address)
5010 N. Azusa Canyon Rd.
Irwindale, CA 91706

6. Transporter 1 Company Name
ECOLOGY CONTROL INDUSTRIES
U.S. EPA ID Number
CAD983203178

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CROSBY & OVERTON
1630 W. 17TH STREET
LONG BEACH CA 90813
Facility's Phone: 562 432-8461
U.S. EPA ID Number
CAD008160016

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-hazardous waste liquid (car wash sump water/steam wash)	1	TT	2,100	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Wear proper safety equipment
EX Job# 1330

L16977
D57627

Profile # 43188 9

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Rod Cleem
Signature: Rod Cleem
Month: 12 Day: 16 Year: 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ignacio Hernandez
Signature:
Month: 12 Day: 16 Year: 11

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

H135

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: LAURA Chrisman
Signature:
Month: Day: Year:

CAL TECH Environmental Laboratories

6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

ANALYTICAL RESULTS*

CTEL Project No:	CT213-1110026
Client Name:	Ecology Control Industries Inc.
	20846 Normandie Ave.
	Torrance, CA 90504
Attention:	Mr. Rod Cleem

Phone:(310) 354-9999
Fax: (310) 354-6676

Project ID:	Verizon
Project Name:	5010 N. Azusa Canyon Rd.., Irwindale, CA

Date Sampled:	10/03/11 @ 20:10 p.m.
Date Received:	10/04/11 @ 17:00 p.m.
Date Analyzed	10/05/11

Matrix: AQ

Laboratory ID:	1110-026-1	1110-026-2	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	03-ICW	03-ICWD			
Dilution	1	1			
Dichlorodifluoromethane	ND	ND	EPA 8260B	ug/L	1
Chloromethane	ND	ND	EPA 8260B	ug/L	1
Vinyl Chloride	ND	ND	EPA 8260B	ug/L	0.5
Bromomethane	ND	ND	EPA 8260B	ug/L	1
Chloroethane	ND	ND	EPA 8260B	ug/L	1
Trichlorofluoromethane	ND	ND	EPA 8260B	ug/L	1
Iodomethane	ND	ND	EPA 8260B	ug/L	1
Acetone	ND	ND	EPA 8260B	ug/L	10
1,1 Dichloroethene	ND	ND	EPA 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND	ND	EPA 8260B	ug/L	10
Methylene Chloride	ND	ND	EPA 8260B	ug/L	10
Freon 113	ND	ND	EPA 8260B	ug/L	5
Carbon disulfide	ND	ND	EPA 8260B	ug/L	1
Trans 1,2 Dichloroethene	ND	ND	EPA 8260B	ug/L	1
Methyl-tert-butyl-ether(MtBE)	ND	ND	EPA 8260B	ug/L	1
1,1 Dichloroethane	ND	ND	EPA 8260B	ug/L	1
Vinyl acetate	ND	ND	EPA 8260B	ug/L	50
Diisopropyl Ether (DIPE)	ND	ND	EPA 8260B	ug/L	1
Methyl Ethyl Ketone	ND	ND	EPA 8260B	ug/L	10
Cis 1,2 Dichloroethene	ND	ND	EPA 8260B	ug/L	1
Bromochloromethane	ND	ND	EPA 8260B	ug/L	1
Chloroform	ND	ND	EPA 8260B	ug/L	1
2,2-Dichloropropane	ND	ND	EPA 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND	ND	EPA 8260B	ug/L	1
1,1,1-Trichloroethane	ND	ND	EPA 8260B	ug/L	1
1,2-Dichloroethane	ND	ND	EPA 8260B	ug/L	0.5
1,1-Dichloropropene	ND	ND	EPA 8260B	ug/L	1
Carbon Tetrachloride	ND	ND	EPA 8260B	ug/L	0.5
Benzene	ND	ND	EPA 8260B	ug/L	0.5
t-Amyl Methyl Ether (TAM)	ND	ND	EPA 8260B	ug/L	1
1,2-Dichloropropane	ND	ND	EPA 8260B	ug/L	1
Trichloroethene	ND	ND	EPA 8260B	ug/L	1
Dibromomethane	ND	ND	EPA 8260B	ug/L	1
Bromodichloromethane	ND	ND	EPA 8260B	ug/L	1
2-Chloroethylvinylether	ND	ND	EPA 8260B	ug/L	5
Cis,-1,3 Dichloropropene	ND	ND	EPA 8260B	ug/L	1
4-Methyl-2-pentanone(MI)	ND	ND	EPA 8260B	ug/L	10
Trans-1,3-Dichloropropene	ND	ND	EPA 8260B	ug/L	1
Toluene	ND	ND	EPA 8260B	ug/L	0.5
1,1,2-Trichloroethane	ND	ND	EPA 8260B	ug/L	1

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

Lab Job No. 10.026 Page 1 of 1

Chain of Custody Record

Client: Ecology Control Ind.
Contact: Rod Cleem
Address: 20846 Normandie Ave.
Torrance, CA 90502
Project: Verizon-5010 N. Azusa Canyon Rd. Irwindale, CA
Sampled By: Ignacio Hernandez
Name/Signature

Phone: 310-606-9463
Fax: 310-354-6678

Turn Around Time
Rush
Normal

Analyses Requested

Lab ID Number	Field ID	Date/Time Sampled	Bottle Type	No.	Preserv.	Matrix	Cam. metals	418.1 Oil	8015 gas/diesel	8260 Solvents					Comments
	03-ICW	10/3/11 2010	1-32oz, 2-80A	3	None	Liquid	X	X	X	X					
	03-ICWD	10/3/11 2015	" "	4	"	"	X	X	X	X					

Relinquished: _____ Date / Time: _____ Received: _____

Dispatched: _____ Date / Time: _____ Carrier: _____

I hereby authorize the performance of the above indicated tests.

_____ Date / Time: 10/4/11 5:00 Received by lab: _____

CTELCCR DOC

Custody seal(s) in tact upon receipt by lab? YES NO NONE

CTEL Project No:	CT213-1110026
Client Name:	Ecology Control Industries Inc.
	20846 Normandie Ave.
	Torrance, CA 90504
Attention:	Mr. Rod Cleem

Phone:(310) 354-9999
Fax: (310) 354-6676

Project ID:	Verizon
Project Name:	5010 N. Azusa Canyon Rd.., Irwindale, CA

Date Sampled:	10/03/11 @ 20:10 p.m.
Date Received:	10/04/11 @ 17:00 p.m.
Date Analyzed	10/05/11

Matrix: AQ

Laboratory ID: / **Client Sample ID:**	1110-026-1 03-ICW	1110-026-2 03-ICWD	**Method**	**Units**	**Detection Limit**
Title 22 Metals					
Antimony (Sb)	ND	ND	SW846 6010B	mg/L	0.05
Arsenic (As)	ND	ND	SW846 6010B	mg/L	0.05
Barium (Ba)	0.139	0.148	SW846 6010B	mg/L	0.005
Beryllium (Be)	ND	ND	SW846 6010B	mg/L	0.01
Cadmium (Cd)	ND	ND	SW846 6010B	mg/L	0.01
Chromium (Cr)	ND	ND	SW846 6010B	mg/L	0.01
Cobalt (Co)	ND	ND	SW846 6010B	mg/L	0.04
Copper (Cu)	ND	ND	SW846 6010B	mg/L	0.02
Lead (Pb)	ND	ND	SW846 6010B	mg/L	0.02
Mercury (Hg)	ND	ND	SW846 7470	mg/L	0.0002
Molybdenum (Mo)	ND	ND	SW846 6010B	mg/L	0.02
Nickel (Ni)	ND	ND	SW846 6010B	mg/L	0.04
Selenium (Se)	ND	ND	SW846 6010B	mg/L	0.05
Silver (Ag)	ND	ND	SW846 6010B	mg/L	0.01
Thallium (Tl)	ND	ND	SW846 6010B	mg/L	0.05
Vanadium (V)	ND	ND	SW846 6010B	mg/L	0.04
Zinc (Zn)	ND	ND	SW846 6010B	mg/L	0.02
Acid, Extraction	10/04/11	10/04/11	SW846 3010	Date	

ND = Not Detected at the indicated Detection Limit

Greg Tejirian
Laboratory Director

*The results are base upon the sample received. Soil samples are not homogeneous

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

CTEL Project No: CT213-1110026

Project ID: Verizon
Project Name: 5010 N. Azusa Canyon Rd.., Irwindale, CA

Laboratory ID: / Client Sample ID:	1110-026-1 03-ICW	1110-026-2 03-ICWD	Method	Units	Detection Limit
1,2-Dibromoethane(EDB)	ND	ND	EPA 8260B	ug/L	0.5
1,3-Dichloropropane	ND	ND	EPA 8260B	ug/L	1
Dibromochloromethane	ND	ND	EPA 8260B	ug/L	1
2-Hexanone	ND	ND	EPA 8260B	ug/L	10
Tetrachloroethene	ND	ND	EPA 8260B	ug/L	1
Chlorobenzene	ND	ND	EPA 8260B	ug/L	1
1,1,1,2-Tetrachloroethane	ND	ND	EPA 8260B	ug/L	1
Ethylbenzene	ND	ND	EPA 8260B	ug/L	0.5
m.p-Xylene	ND	ND	EPA 8260B	ug/L	0.6
Bromoform	ND	ND	EPA 8260B	ug/L	1
Styrene	ND	ND	EPA 8260B	ug/L	1
o Xylene	ND	ND	EPA 8260B	ug/L	0.6
1,1,2,2-Tetrachloroethane	ND	ND	EPA 8260B	ug/L	1
1,2,3-Trichloropropane	ND	ND	EPA 8260B	ug/L	1
Isopropylbenzene	ND	ND	EPA 8260B	ug/L	1
Bromobenzene	ND	ND	EPA 8260B	ug/L	1
2-Chlorotoluene	ND	ND	EPA 8260B	ug/L	1
n-Propylbenzene	ND	ND	EPA 8260B	ug/L	1
4-Chlorotoluene	ND	ND	EPA 8260B	ug/L	1
1,3,5-Trimethylbenzene	ND	ND	EPA 8260B	ug/L	1
tert-Butylbenzene	ND	ND	EPA 8260B	ug/L	1
1,2,4-Trimethylbenzene	ND	ND	EPA 8260B	ug/L	1
sec Butylbenzene	ND	ND	EPA 8260B	ug/L	1
1,3-Dichlorobenzene	ND	ND	EPA 8260B	ug/L	1
1,4-Dichlorobenzene	ND	ND	EPA 8260B	ug/L	1
p-Isopropyltoluene	ND	ND	EPA 8260B	ug/L	1
1,2-Dichlorobenzene	ND	ND	EPA 8260B	ug/L	1
n Butylbenzene	ND	ND	EPA 8260B	ug/L	1
1,2 Dibromo-3-Chloropropane	ND	ND	EPA 8260B	ug/L	1
1,2,4-Trichlorobenzene	ND	ND	EPA 8260B	ug/L	1
Naphthalene	ND	ND	EPA 8260B	ug/L	1
1,2,3-Trichlorobenzene	ND	ND	EPA 8260B	ug/L	1
Hexachlorobutadiene	ND	ND	EPA 8260B	ug/L	1
Carbon Chain (C5~C12)	ND	ND	LUFT	mg/L	0.05
Carbon Chain (C13~C24)	ND	ND	LUFT	mg/L	0.5
Carbon Chain (C25~C40)	ND	ND	LUFT	mg/L	1
TRPH	ND	ND	418.1	mg/L	1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY		Control Limit
Dibromofluoromethane	88	84	70-130
1,2 Dichloromethaned4	83	81	70-130
Toluene-d8	86	89	70-130
Bromofluorobenzene	103	99	70-130

Payne, Richard

From: Choudhury, Masood H (Masood) <masood.choudhury@verizon.com>
Sent: Monday, October 29, 2012 2:26 PM
To: Payne, Richard
Subject: FW: VZ Irwindale PY_Clarifer Waste Manifest
Attachments: DOC.PDF; VZ Irwindale PY Analytical Results.pdf

Richard, Attached also find the analytical data.

Thanks, Masood

-----Original Message-----
From: Choudhury, Masood H (Masood)
Sent: Monday, October 29, 2012 12:38 PM
To: rpayne@dpw.lacounty.gov
Subject: FW: VZ Irwindale PY_Clarifer Waste Manifest

Hello Richard,

Attached is the waste manifest for the subject site.

Please let me know if you require a site visit or additional information. Thanks, Masood

Masood Choudhury
Verizon Global EH&S Compliance
CAA05HJ
Tel 909-620-5962
Cell 951-201-5319
Fax 909-629-1080

-----Original Message-----
From: XeroxScan2Email@core.verizon.com [mailto:XeroxScan2Email@core.verizon.com]
Sent: Monday, October 29, 2012 12:26 PM
To: Choudhury, Masood H (Masood)
Subject: Scan from a Xerox WorkCentre

Please open the attached document. It was scanned and sent to you using a Xerox WorkCentre.

Attachment File Type: PDF

WorkCentre Location: machine location not set
Device Name: XRX0000AAF99A8C

For more information on Xerox products and solutions, please visit http://www.xerox.com

L.A. COUNTY DPW
DATE COMPILED: 02/09/09
RUN DATE: 06/27/13 17:57:55

HAZARDOUS MATERIALS SYSTEM
IW INSPECTION JOB ORDER
SCHEDULED INSPECTIONS

REPORT: PWB150.001
INSP#: I000748580
ASSC#: P000009136
PAGE: 1

FILE #: 003755-I03882 NAME: VERIZON CALIFORNIA
ADD: 5010 N AZUSA CANYON RD
IRWINDALE, CA 91706 AREA: 3S SMD: 99
XSTREET: ARROW HWY THOMAS GUIDE: 0598-E3
CONTACT: MASSOUD CHOUDHURY TEL: 909 620 5962
AIN: 8413 003 013

PROC: IW CLASS C SAMPLE REQUIRED? N

INSP INFO: CALL ZACH FEINGOLD BEFORE INSP @909-620-5498
MECHANICS ON-SITE 3:30 T-TH, 12:00 FRI; CELL# 909-282-2070

PERM TYPE: I 01 OPERATING PERMIT-LOCAL SEWER STATUS: PERMITTED
JURIS: C LOCAL ORDINANCE/CSDLAC EXEMPT
INDUSTRY: 213 TRUCK REPAIR & EXTERIOR WASHIN
FACILITY: 4D 1001-1250 GAL, 3 COMP, PRECAST
SIC: 7542 CARWASHES
RDS: RDS AREA: SQ FT

	FREQUENCY	LAST PERFORMED	NEXT DUE
INSPECTION	04		07/06/13
SAMPLE	00		
SELF-MONITOR	00		

ASSGN TO: SAN GABRIEL VALLEY OFFICE SECT: FIELD INSPECTION UNIT

==========

RESULTS: Sample box - No oil, floatables or sludge. Field pH=8. Last stage - no oil or solids. Wash rack drains, no debris, No runoff.

REMARKS: consent to inspect - Massoud Choudhury

INSPECTOR: Chris Benigno INSPECTION DATE: 09/27/13

DISP: Comp/comb

L.A. COUNTY DPW
DATE COMPILED: 12/09/13
RUN DATE: 06/30/14 18:00:03

HAZARDOUS MATERIALS SYSTEM
IW INSPECTION JOB ORDER
SCHEDULED INSPECTIONS

REPORT: PWB150.001
INSP#: I000780296
ASSC#: P000009136
PAGE: 1

FILE #: 003755-I03882 NAME: VERIZON CALIFORNIA
ADD: 5010 N AZUSA CANYON RD
IRWINDALE, CA 91706
AREA: 3S SMD: 99
XSTREET: ARROW HWY
THOMAS GUIDE: 0598-E3
CONTACT: MASSOUD CHOUDHURY
TEL: 909 620 5962
AIN: 8413 003 013

PROC: IW CLASS C SAMPLE REQUIRED? N

INSP INFO: CALL ZACH FEINGOLD BEFORE INSP @909-620-5498
MECHANICS ON-SITE 3:30 T-TH, 12:00 FRI; CELL# 909-282-2070

PERM TYPE: I 01 OPERATING PERMIT-LOCAL SEWER STATUS: PERMITTED
JURIS: C LOCAL ORDINANCE/CSDLAC EXEMPT
INDUSTRY: 213 TRUCK REPAIR & EXTERIOR WASHIN
FACILITY: 4D 1001-1250 GAL, 3 COMP, PRECAST
SIC: 7542 CARWASHES
RDS: RDS AREA: SQ FT

	FREQUENCY	LAST PERFORMED	NEXT DUE
INSPECTION	04		07/06/14
SAMPLE	00		
SELF-MONITOR	00		

ASSGN TO: SAN GABRIEL VALLEY OFFICE SECT: FIELD INSPECTION UNIT

==========

RESULTS: NO SLUDGE IN SAMPLE BOX OR 3rd. STAGE, SOAPY WATER ONLY PH 7 FIELD TEST. CAR WASH DRIVE THROUGH AND GARAGE CLEAN.

REMARKS: BILL HAND DELIVERED TO SITE.

CITY ACCESS DATABASE.

INSPECTOR: Richard Reyes INSPECTION DATE: 11/13/14

DISP: Carry

TRANS: INSP HMS INSPECTION DISPLAY/UPDATE OPER: E288491
PROG: PWC160 11/14/14 11:15:29

ACTION: _ (A)DD (C)HANGE (D)ELETE (B)ROWSE A(S)SC # BROWSE
FILE #: 003755 I03882 NAME: VERIZON CALIFORNIA SEC? N STAT: PERM
STREET #: 5010 FR: DR: NAME: AZUSA CANYON SF: RD UN:
CITY: IRWINDALE ZIP: 91706 1830 AREA: 3S TEL: 626 960 3175
INSP #: I 000791753 INSP TYPE: I IBIL INSP DT: 111414 INSP DISP: FOLL
ASSC #: P 000009136 ASSC # TYPE: I 01 ASSC # DT: 070687 ASSC # DISP: PERM

INSP PROC: IW_CLASS_C SAMP REQ? _ SELF MONT? _

INSP INFO: OVER_DUE_BILL_A/R_FEE_OF_$_445.25_DUE_TO_EPD_____
_____

RESULTS: BILL_DELIVERED_TO_INWINDALE_SITE,_GIVEN_TO_CHRISTOPHER_JOSEPH_AREA__
MANAGER._SEE_V000791754_____
OF VIOLS FOUND: 0 COMPLY DT:

ASSIGN DT: 111314 DUE DT: 122914 ASSIGN TO: 47913_ RP____
START DT: _____ COMP DT: 111314 COMP BY: 47913_ RP____
DMS LINK: HTTP://PWDMS04/CSHMSEPDUSTRESULTS.ASP?DOCNO=000791753&DOCTYPE=INSP
LAST TRAN/DATE/OPER: INSP 111414 E288491
UPDATE COMPLETED - VERIFY PERMIT LAST INSPECTION DATE

Fail

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
"To Enrich Lives Through Effective And Caring Service"

www.CleanLA.com

ENVIRONMENTAL PROGRAMS DIVISION

NOTICE | NOTICE OF NONCOMPLIANCE | NOTICE OF VIOLATION ORDER TO COMPLY

Date 11/13/14 | Permit P0000091136

Owner/Operator MASSOUD CHOUDHURY | Site/File 003755-I03882-3S

Site Name VERIZON CALIFORNIA | Violation # V000791754

Site Address 5010 N. AZUSA CANYON RD. | City, Zip IRWINDALE, CA 91706

Mailing Address 1400 E. PHILLIPS BLVD. | City, Zip POMONA, CA 91766

[✓] You are hereby directed to correct the following violation(s) of: [ ] Los Angeles County Code (LACC) Title 11; [ ] LACC Title 12 and/or conditions and limitations of Stormwater Certificate No. _____; [✓] LACC Title 20 and/or conditions and limitations of Industrial Waste Disposal Permit No. _____

[✓] City of IRWINDALE Municipal Code/Ordinance MC TITLE 13 CH 13.04 ORD 486

[ ] Your attention is directed to your noncompliance with the Notice(s) issued on: _____ Violation No(s). V_____.

Violations/Instructions:

IT HAS COME TO THE ATTENTION OF THIS OFFICE E.P.D. THAT YOU, VERIZON CALIFORNIA HAVE OUTSTANDING AND PAST DUE INDUSTRIAL WASTE FEES IN THE AMOUNT OF $445.25 DUE TO THIS DIVISION.

YOU ARE DIRECTED TO PAY ALL OUTSTANDING FEES AND ANY ADDITIONAL PENALTY AMOUNTS BY THE DATE STATED BELOW.

SHOULD YOU HAVE QUESTIONS REGARDING THIS BILL, PLEASE CALL THE NUMBER ON THE BOTTOM OF YOUR BILL (626) 458-3517

[ ] Telephone the office shown below for a return inspection.

YOU ARE FURTHER DIRECTED to have the above violations corrected by 12/29/14, unless otherwise directed above.

If you have any questions regarding this matter, please contact RICHARD PAYNE Monday through Friday, 8 a.m. to 9:30 a.m. at (626) 574-0962, FAX (626) 821-1471

Return requested items to the office below:

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION
125 S BALDWIN AVE
ARCADIA CA 91007-2652

Inspected By: Richard Payne
Signature

Receipt of a copy of this notice acknowledged by:

Print Name: Christopher Joseph	Title: AREA MANAGER
Signature: Christopher Joseph	Date: 11/13/14

OFFICE COPY

Payne, Richard

From: Choudhury, Masood H (Masood) <masood.choudhury@verizon.com>
Sent: Friday, November 14, 2014 9:17 AM
To: Payne, Richard
Cc: Caro, Gloria (Gloria); Joseph, Christopher A (Chris)
Subject: FW: County of Los Angeles Department of Public Works - Irwindale Yard - Past Due Bill and Inspection
Attachments: County of Los Angeles Department of Public Works - Irwindale Yard - Past Due Bill and Inspection.pdf

Hello Richard,

I have forwarded your NOV/ past due Industrial Permit fees invoice to our Real Estate Supervisor Gloria for payment processing. In future, for site access and invoice payment for such permitting please contact Gloria @

Caro, Gloria (Gloria)
Verizon Corp. Svcs. Group Inc
Supv-Re Operations
Re Ops South/West D
909-469-6375 Work
909-973-9108 Mobile
gloria.caro@one.verizon.com
1400 E Phillips Blvd
Pomona, CA 91766

Thanks, Masood

Masood Choudhury
Verizon Global EH&S Compliance
280 S. Locust Street; Pomona, CA 91766
Tel 909-620-5962
Cell 951-201-5319
Fax 909-629-3471

From: Feingold, Zachary (Zach)
Sent: Friday, November 14, 2014 8:52 AM
To: Choudhury, Masood H (Masood)
Subject: FW: County of Los Angeles Department of Public Works - Irwindale Yard - Past Due Bill and Inspection

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From: Joseph, Christopher A (Chris)
Sent: Thursday, November 13, 2014 5:31 PM
To: Balint, Susan L (Susan)
Cc: Feingold, Zachary (Zach); Gilmore, Martin (Martin)
Subject: County of Los Angeles Department of Public Works - Irwindale Yard - Past Due Bill and Inspection

ANNUAL INDUSTRIAL WASTE INSPECTION FEE

PENALTY BILL

VERIZON CALIFORNIA
5010 AZUSA CANYON RD
IRWINDALE, CA 91706-1830

PERMIT NO: P000009136
FILE NO: 003755 I03882
AREA: 3S
DATE: 10/14/14
FY: 2015

PERMITTEE MAILING ADDRESS: NANCY CANO
1400 E PHILLIPS BLVD
POMONA, CA 91766

RETURN TO: LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
CASHIER UNIT
P. O. BOX 1460
ALHAMBRA, CA 91802

MAKE CHECK PAYABLE TO: L.A. COUNTY DEPARTMENT OF PUBLIC WORKS

****
* AMOUNT DUE: $445.25 *
* DUE DATE: 11/11/14 *
****

IND: 213 TRUCK REPAIR & EXTERIOR WASHIN JURIS: C LOCAL ORDINANCE/CSDLAC EXEMPT PERMIT TYPE: 01 OPERATING PERMIT-LOCAL SEWER

FEE TYPE	FEE DESCRIPTION	AMOUNT OWING	
I04	ANNUAL PERMIT FEE	$333.00	
Z01	PENALTY BILLING	$112.25	
	TOTAL	$445.25	DUE DATE: 11/11/14

YOUR ANNUAL PAYMENT IS 60 DAYS PAST DUE. A 10% PENALTY HAS BEEN ADDED TO YOUR BILL. IF PAYMENT IS NOT RECEIVED BY 11/11/14. THE PERMIT IS SUBJECT TO SUSPENSION

REFER ALL INQUIRES TO: ENVIRONMENTAL PROGRAMS DIVISION (626) 458-3517
* RETAIN THIS PORTION FOR YOUR RECORDS *

VERIZON CALIFORNIA
5010 AZUSA CANYON RD
IRWINDALE, CA 91706-1830

ANNUAL INDUSTRIAL WASTE INSPECTION FEE

PENALTY BILL

PERMIT NO: P000009136
FILE NO: 003755 I03882
AREA: 3S
DATE: 10/14/14
FY: 2015

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POMONA, CA 91766

RETURN TO: LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
CASHIER UNIT
P. O. BOX 1460
ALHAMBRA, CA 91802

MAKE CHECK PAYABLE TO: L.A. COUNTY DEPARTMENT OF PUBLIC WORKS

****
* AMOUNT DUE: $445.25 *
* DUE DATE: 11/11/14 *
****

REFER ALL INQUIRES TO: ENVIRONMENTAL PROGRAMS DIVISION (626) 458-3517

* RETURN THIS PORTION WITH PAYMENT *

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

GAIL FARBER, Director

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
http://dpw.lacounty.gov

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE
REFER TO FILE: EP-1
003755-003882

December 3, 2015

Verizon California Inc.
P.O. Box 725
Chino, CA 91708-0725

HAZARDOUS MATERIALS UNDERGROUND STORAGE
CLOSURE CERTIFICATION
CLOSURE APPLICATION NO. 591016
FACILITY LOCATED AT 5010 AZUSA CANYON ROAD, IRWINDALE (3S)

This office reviewed the final closure report dated June 19, 2009, required as a part of the subject closure permit. Based on the information submitted, we find that all closure requirements have been completed. With the provision that the information provided to this agency was accurate and representative of existing conditions, it is our position that no further action is required at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at this facility. Nor does it relieve you of the responsibility to cleanup existing, additional, or previously unidentified conditions at the facility, which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

Additionally, be advised that changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this agency of any changes in report content, future contamination findings, or site usage.

If you have any questions, please contact Mr. Phillip Gharibians at (626) 458-5976, Monday through Thursday, 7 a.m. to 5:30 p.m.

Very truly yours,

GAIL FARBER
Director of Public Works

For TIM SMITH
Senior Civil Engineer
Environmental Programs Division

PGT:ak
P:\Sec\Verizon California Inc. C819776

FORM VALID JULY 1, 2008 TO JUNE 30, 2009

APPLICATION FOR CLOSURE

FOR HAZARDOUS MATERIAL UNDERGROUND STORAGE TANKS
COUNTY OF LOS ANGELES, DEPARTMENT OF PUBLIC WORKS
Environmental Programs Division
900 South Fremont Avenue, 3rd Floor Annex Building
Alhambra, CA 91803-1331
Ph No. (626) 458-3517 Fax No. (626) 458-3569
www.888CleanLA.com

DPW USE ONLY:
SITE-FILE NO. 3755-3882
APPLICATION NO. 591016 AREA 35
CHECK [ ] CASH [ ] OTHER [ ]
FEE $ _____

TANK OWNER: Contact Name: Zachary D. Feingold Phone: (909) 620-5498
Mailing Address: P.O. Box 725 City: Chino State: CA Zip: 91708

FACILITY/SITE: Occupant Name: Verizon California Inc. Phone: (818) 960-3175
Site Address: 5010 North Azusa Canyon Rd. City: Baldwin Park State: CA Zip: 91706
Mailing Address: 5010 North Azusa Canyon Rd. City: Baldwin Park State: CA Zip: 91706
Contact Person: Zachary D. Feingold Title: Environment Management

CONTRACTOR ☐ OWNER/OPERATOR AS CONTRACTOR ☐
Contractor Name: Sunwest Enginering Constructors, Inc. Phone: (909) 594-9850
State License No.: 703190 Class: A, B, HAZ

Contractors Shall Be Hazardous Substance Removal Certified "**HAZ**" per Business & Professions Code Division 3, Chapter 9, Article 4, §7058.7 (e)

CLOSURE REQUESTED: Closure of Underground Storage Tanks (USTs) shall be in compliance with California Health and Safety Code Division 20, Chapter 6.7, §25298, and California Code of Regulations Title 23, Division 3, Chapter 16, Sections 2670 through 2672.

HOW MANY UNDERGROUND STORAGE TANKS WILL REMAIN AFTER THIS CLOSURE? 0 **EXISTING HMUSP NO.:** AR0004710

- ☒ PERMANENT, UST REMOVAL (See CCR, Title 23, Division 3, Chapter 16, §2672(b))
- ☐ PERMANENT, CLOSURE IN PLACE (See CCR, Title 23, Division 3, Chapter 16, §2672(c)) - Attach Justification Statement
- ☐ TEMPORARY CLOSURE (See CCR, Title 23, Division 3, Chapter 16, §2671)
- ☐ OTHER (PIPING, UNDER DISPENSER CONTAINMENT, ETC): _____

PLOT PLAN ATTACHED ☒ Show existing tanks, product piping and dispenser locations.

NO. OF UST's TO BE CLOSED	*	UST ID NO. (DPW USE ONLY)	CAPACITY GALLONS	MATERIALS STORED (PAST/PRESENT)	CLOSURE APPLICATION FEE
1			12,000	Unleaded Gasoline	$430.00
2					$529.00
3					$628.00
4					$727.00
5					$826.00
6 (+ ATTACH LIST)					$331.00 + $99.00/PER TANK =

	YES	NO
Has an unauthorized release ever occurred at this site?	☒	☐
Has a structural repair ever been made to these tanks?	☐	☒
Will new underground storage tanks be installed after closure?	☐	☒
Will any wells, including monitoring wells, be abandoned?	☐	☒

NOTICE: CONTAMINATED TANKS AND RESIDUES IN TANKS TO BE CLOSED, MAY BE HAZARDOUS WASTE WHICH MUST BE TRANSPORTED AND DISPOSED OF PURSUANT TO CALIFORNIA HEALTH AND SAFETY CODE DIVISON 20, CHAPTER 6.5 AND MUST BE REPORTED IN THE CLOSURE REPORT. FAILURE TO COMPLY MAY BE PROSECUTED AS A FELONY VIOLATION.

By signature below the applicant certifies that all statements and disclosures above are true and correct and that they have read and agree to abide by this permit and all conditions and limitations on the back and attached.

Applicant's Signature Christina Meza Date 11/6/08
(Print Name) Christina Meza Phone (951) 870-0451
Owner ☐ Operator ☐ Contractor ☒

TO BE COMPLETED BY THE DEPARTMENT OF PUBLIC WORKS

PURSUANT TO SECTION 11.80.070B, LOS ANGELES COUNTY CODE, PERMISSION IS HEREBY GRANTED TO PROCEED WITH THE CLOSURE DESCRIBED ABOVE SUBJECT TO THE ATTACHED CONDITIONS AND LIMITATIONS.

THIS AUTHORIZATION EXPIRES: 05/06/09 *****SEE ATTACHMENTS*****

DEAN D. EFSTATHIOU
Acting Director of Public Works

By: _____ Date: 11/06/08

 Complete Certification of Compliance with Los Angeles County Lobbyist Ordinance on back. ClosApp FORMAT DPW Rev. 07/08

UNDERGROUND STORAGE TANK
CLOSURE INFORMATION

1. This application is for authorization to temporarily or permanently close an underground storage tank (UST) pursuant to Los Angeles County Code, Title 11, Division 4 and California Code of Regulations, Title 23, Division 3, Chapter 16. This application may also be used for product piping removal associated with an existing or removed USTs.

2. This application will not be approved unless a valid Hazardous Material Underground Storage Permit (HMUSP) or Unified Program (UP) Permit application is on file with the Department of Public Works (DPW).

3. Additional fees may be imposed for closure of USTs that were not in compliance with December 22, 1998, standards for upgrade or temporary closure.

4. USTs closed on site by removal or cleaning and filling with an inert solid material prior to January 1, 1984, need not comply with current closure requirements, however, contamination related to these USTs must be reported and cleaned up.

5. This application must be accompanied by a UP UST FACILITY INFORMATION form for each site and UP UST TANK INFORMATION form for each UST to be removed or closed.

6. All work shall be carried out in full compliance with all applicable Federal, State and local laws, ordinances, rules and regulations.

7. All fees due to DPW and/or to the Certified Unified Program Agency (CUPA) for the operation and/or maintenance of the facility subject to closure through the date of closure shall be paid in full.

8. All inspection notification(s) shall be made as directed by the attached conditions of this approval.

9. Within 30 days after closure, the applicant shall furnish to the DPW a closure report per the DPW Closure Report Requirements and Supplements, describing all work completed, results of any required sampling, disposition of any contaminated soils or materials found and any other requirements made part of the closure application.

10. In all cases, closure permits expire 180 days from the date of issue unless otherwise specified. It is the responsibility of the owner or operator to make sure that the final report contains the required information and is submitted to the DPW within 30 days from the sampling date or 180 days from the date of the permit issuance, whichever is earlier. The total number of tanks listed on the HMUSP or UP Permit and the yearly annual permit maintenance billing will remain unchanged until the closure report is received by the DPW. Only one copy of the closure report needs to be submitted unless otherwise directed.

11. All closure applications are site specific and may be subject to additional sampling and site characterization requirements as necessary to protect the public health and safety, underground and surface water supplies, and may include requirements, requested by Federal, State or other regulatory agencies.

12. All correspondence related to this closure authorization shall include the SITE-FILE number listed on the front of this document, found in the upper right box and be addressed to the following location:

DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION
900 SOUTH FREMONT AVENUE
ALHAMBRA, CA 91803-1331
(626) 458-3517

CERTIFICATION OF COMPLIANCE WITH LOS ANGELES COUNTY LOBBYIST ORDINANCE

This is to certify that I, as permit applicant, for the project located at 5010 N. AZUSA CANYON RD
LOCATION ADDRESS

am familiar with the requirements of Los Angeles County Code Chapter 2.160 et seq. (relating to the Los Angeles County Lobbyist Ordinance) and all persons acting on behalf of myself have complied and will continue to comply therewith through the application process.

Christina Meza — Christina Meza
APPLICANT (PRINT NAME) — **APPLICANT SIGNATURE**

Sunwest Engineering Contractors — 11/6/08
COMPANY NAME (If employed by an entity/agency) — **DATE**

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION

CLOSURE REPORT REQUIREMENTS

A closure report shall be submitted to the County of Los Angeles Department of Public Works, Environmental Programs Division, P.O. Box 1460, Alhambra, California 91802-1460, containing:

1. File number of facility and closure permit number.

2. Plot plan to scale showing locations of tanks, sampling points, buildings, adjacent streets, and north arrow.

3. Description of methods for obtaining, handling, and transporting samples.

4. Time and date samples were obtained.

5. Soil sampling certification (including but not limited to soils classification, boring logs, sample procedures, sample locations, initiating chain-of-custody, and groundwater location) for UST closure shall be certified by a California registered geologist, a California certified engineering geologist, or a California registered civil engineer with sufficient experience in soils. The certification must clearly state that all work was performed under the supervision of the person signing.

6. Chain-of-custody documentation initiated by person obtaining sample through person at a California Department of Health Services certified laboratory.

7. Disposal destination of tanks and evidence of legal disposal.

8. Analysis results by a State certified laboratory submitted on laboratory letterhead showing analysis date, methods of extraction, and methods of analysis.

9. Documentation as to depth of groundwater at facility.

10. Manifests to document hazardous waste disposal of any removed soil and tank rinsate.

11. Evidence of legal disposal of soils designated as nonhazardous.

12. Any observations of site contamination.

13. Remedial action plan to mitigate contamination.

14. Report to be signed by a California registered geologist, a California certified engineering geologist, or a California registered civil engineer with sufficient experience in soils.

Print Name Christina Meza

Signature Christina Meza Date 11/6/08

STATE OF CALIFORNIA
California Regional Water Quality Control Board
Los Angeles Region
(Underground Storage Tank Program)

General Laboratory Testing Requirements for Petroleum Hydrocarbon Impacted Sites

The purpose of this document is to supplement the Regional Board's Laboratory Report Form (6/00) in order to update obsolete testing requirements and set forth the new requirements for fuel oxygenates and natural attenuation testing. Each analytical method used must be certified by the California Environmental Accreditation Laboratory Program (ELAP).

1. General Laboratory QA/QC Requirements
Conform to the Regional Board's Laboratory Report Form (6/00) in general, except for items specified below.

2. Compounds to be Tested
Total petroleum hydrocarbons in gasoline range (TPHg) (C4 – C12); Total petroleum hydrocarbons in diesel range (TPHd) (C13 – C22); benzene, toluene, ethylbenzene, xylenes (BTEX); methyl tertiary butyl ether (MTBE); di-isopropyl ether (DIPE); ethyl tertiary butyl ether (ETBE); tertiary amyl methyl ether (TAME); tertiary butyl alcohol (TBA). If the gasoline tanks historically or currently contain methanol or ethanol, these compounds are also to be tested.

3. Analytical Test Methods and Detection Limits
Conform to Table 1 below. Report any concentration detected between the method detection limit (MDL) and estimated quantitation limit (EQL) (or reporting limit (RL)) in a numerical value with a "J" flag indicator. All "Non-Detect" (ND) shall be reported in the format with "< (numerical MDL)." Integrate all fuel oxygenate additive concentrations into total petroleum hydrocarbons (TPH) and report it as TPH. EPA Method 8021B may be used to substitute EPA Method 8260B at the sites where all fuel oxygenates have not been identified by EPA Method 8260B in soil and/or groundwater.

Table 1: Analytical Requirements

		Required MDL (Method detection limit)	
Analyte	Analytical Method	Soil (µg/kg)	Water (µg/L)
BTEX	EPA Method 8260B(8021B)	1	0.5
MTBE	EPA Method 8260B	2	1
DIPE	EPA Method 8260B	2	1
ETBE	EPA Method 8260B	2	1
TAME	EPA Method 8260B	2	1
TBA	EPA Method 8260B	20	10
TPHg	Cal-LUFT GC/FID or GC/MS	100-200	50-100
TPHd	Cal-LUFT GC/FID	1000	500
Methanol	Cal-LUFT GC/FID	1000	500
Ethanol	Cal-LUFT GC/FID(EPA8260B)	500	250

4. Use of EPA Method 5035 for Soil Samples

Apply EPA Method 5035A specified in the USEPA SW-846, (7/2002) for soil sample preparation and preservation in order to minimize volatile organic losses. Use the sample collection devices, or equivalent, specified in the method (e.g., the Encore™ sampler). If the Encore™ sampler is used, analyze sample within 48 hours from the collection. Analyze sample within 14 days for soil samples stored under frozen conditions.

5. Natural Attenuation Parameters

Natural attenuation processes include dispersion, dilution, sorption, volatilization, biodegradation, and chemical or biological transformation. A carefully controlled monitoring program for the natural attenuation can be used to confirm site-specific mass reduction and achieve remedial objectives. In order to test parameters to confirm the occurrence of natural attenuation, site characterization must be complete first.

5.1 Primary Natural Attenuation Criteria

Meet the following conditions prior to testing for the secondary natural attenuation parameters:

a) Groundwater contaminant plume must be fully defined.

b) Groundwater monitoring program on a quarterly basis must be completed for at least two years including data of MTBE and other oxygenates.

c) Groundwater concentration has consistently decreased or been stable.

d) Determination of site-specific hydraulic conductivity must be conducted: Refer the ASTM D4044-91 for the slug test procedures. Other field methods (e.g., pumping test) are also acceptable to determine hydraulic conductivity.

e) Characterization of MTBE and other oxygenates plume vertical extent must be completed with discrete multi-depth groundwater sampling at all groundwater vulnerable areas designated by the Board.

5.2 Secondary Natural Attenuation Parameters

Analyze the secondary natural attenuation parameters only after the primary natural attenuation criteria are met. Analyze the secondary natural attenuation parameters at all groundwater monitoring wells inside and outside of the plume. Conform to Table 2 below for parameters and testing methods.

Table 2: Analytical Requirements for Secondary Natural Attenuation Parameters

Parameters	Test Method	Required MDL
pH	EPA Method 150.2 or Field instrument	n/a
Dissolved oxygen (DO)	EPA Method 360.1 or Field instrument	n/a
Redox potential (ORP)	Field instrument	n/a
Sulfate (SO_4)	EPA Method 300	5 mg/L
Nitrate (NO_3)	EPA Method 300	0.1 mg/L
Ferrous iron (Fe^{2+})	EPA Method 200	0.1 mg/L
Methane (CH_4)	EPA Method 8015(M)	5 µg/L

6. Electronic Submittal of Data Reporting

All analytical results shall be uploaded in an electronic format to the State GeoTracker Database.

ATTENTION CONTRACTOR

NOTIFICATION/PERMIT REQUIREMENTS

The Closure Authorization is issued subject to compliance with all applicable laws and regulations relating to the performance of work including, but not limited to, business license requirements, Building Codes, Fire Codes, Air Quality regulations, Health and Safety Codes, Water Codes, and Transportation regulations.

Pursuant to Los Angeles County Code, Section 11.78.045, and the Conditions and Limitations of the attached Hazardous Materials Underground Storage Closure Authorization, you are required to complete **ALL** of the following agency notifications indicated below within the time period specified prior to commencement of work on this closure.

[X] 72 HOURS – DEPARTMENT OF PUBLIC WORKS WASTE CONTROL ENGINEERING INSPECTOR:

>>>Unless otherwise noted, Public Works' inspectors are available at the following offices, Monday through Friday, between 8 a.m. and 9:30 a.m. **ONLY**.<<<

[ ] WHITTIER DISTRICT – (562) 906-8426
13523 East Telegraph Road, Whittier, CA 90605-3437

[ ] CENTINELA VALLEY REGION – (310) 534-4862
24320 South Narbonne Avenue, Lomita, CA 90717-1194

[ ] LENNOX DISTRICT – (310) 534-4862
24320 South Narbonne Avenue, Lomita, CA 90717-1194

[✓] SAN GABRIEL VALLEY DISTRICT – (626) 574-0962
125 South Baldwin Avenue, Arcadia, CA 91007-2652

[ ] SAN DIMAS REGION – (626) 574-0962
125 South Baldwin Avenue, Arcadia, CA 91007-2652

[ ] EAST LOS ANGELES DISTRICT – (323) 881-7031
4801 East 3rd Street, Los Angeles, CA 90022-3601

[ ] CITY OF COMMERCE – (323) 887-4456
2535 Commerce Way, Commerce, CA 90040-1487

[ ] NEWHALL REGION – (661) 222-2953
23757 West Valencia Boulevard, Santa Clarita, CA 91355-2192

[X] 48 HOURS (OR AS REQUIRED) – LOCAL FIRE DEPARTMENT FIRE PREVENTION INSPECTOR:

[ ] City of _____
[✓] Los Angeles County Fire Department (626) 969-7876

[X] 24 HOURS – SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Telephone: (909) 396-2326
Fax: (909) 396-3342

[✓] COUNTY SERVES AS BUILDING OFFICIAL, SEE ATTACHED.

[ ] CITY SERVES AS BUILDING OFFICIAL.

FAILURE TO PROVIDE NOTICE AS REQUIRED ABOVE MAY RESULT IN PERMIT REVOCATION. ADDITIONAL SITE ASSESSMENT REQUIREMENTS, AND/OR ADMINISTRATIVE PENALTIES AS PROVIDED BY LAW.

DIRECTORY OF THE COUNTY OF LOS ANGELES AND CONTRACT CITY BUILDING AND SAFETY OFFICES

Unless specifically indicated, all field offices are open 8 a.m. to 4:30 p.m., Monday through Friday, except legal Holidays

CENTRAL OFFICE

900 South Fremont Avenue, 3rd Floor
Alhambra, CA 91803
Monday through Thursday - 7 a.m. to 5 p.m. (Closed Fridays)

PHONE NUMBERS		FAX NUMBERS	
Building Plan Check Section	(626) 458-3173	Admin	(626) 979-5444
Electrical Section	(626) 458-3180	Building Plan Check	(626) 979-5376
Mechanical/Plumbing Section	(626) 458-3182	Electrical/Mechanical	(626) 458-2861
Management and Field Support Section	(626) 458-3188	Property Rehabilitation	(626) 979-5433
Building Rehabilitation Section	(626) 458-3193	Management/Fld Support	(626) 458-6350
Research/Structural Section	(626) 458-3187		
Grading and Drainage Section	(626) 458-6390		

COUNTY DISTRICT OFFICES

Bill Nuckolls
08.00+ ANTELOPE VALLEY #6-499
335A East Avenue K-6
Lancaster, CA 93535 FAX (661) 723-4435
(661) 723-4440 Direct (661) 723-4425

Soheila Kalhor
09.10+ CALABASAS/MALIBU #6-661
4111 North Las Virgenes Road
Calabasas, CA 91302 FAX (818) 880-6279
(818) 880-4150 Direct (818) 880-8292

Gary Nehrenberg
13.00+ CARSON (M-Th 7-6) #6-242
701 East Carson Street (Closed Friday)
Carson, CA 90745 FAX (310) 549-0652
(310) 830-7600 No Direct Line

Joseph Gonzales
06.00+ EAST LOS ANGELES #6-027
5119 East Beverly Boulevard
Los Angeles, CA 90022 FAX (323) 267-4422
(323) 260-3450 Direct (323) 260-3465

Don Gwaltney
01.00+ FIRESTONE #6-126
7807 South Compton Avenue
Los Angeles, CA 90001 FAX (323) 586-6526
(323) 586-6541 Direct (323) 586-6540

Peter Wang
02.00+ LA PUENTE #6-686
16005 East Central Avenue
La Puente, CA 91744 FAX (626) 961-8166
(626) 961-9611 Direct (626) 333-0877

Ed Acosta
12.00+ LOMITA/LENNOX #6-110
24320 South Narbonne Avenue
Lomita, CA 90717 FAX (310) 530-5482
(310) 534-3760 Direct (310) 534-1570

Mazen Dudar
05.00+ SAN GABRIEL VALLEY #6-615
125 South Baldwin Avenue
Arcadia, CA 91007 FAX (626) 446-4425
(626) 574-0941 Direct (626) 574-0945

Richard Bagby
08.20+ SANTA CLARITA #6-470
23757 Valencia Boulevard
Valencia, CA 91355 FAX (661) 222-2947
(661) 222-2940 Direct (661) 253-7202

Frank Harris
04.00+ SOUTH WHITTIER #6-249
13523 Telegraph Road
Whittier, CA 90605 FAX (562) 906-8425
(562) 946-1390 Direct (562) 906-8431

Mark Young (Uninc. area only)
09.00+ UNIVERSAL #6-016
100 Universal City Plaza - MT85 (Trailer)
Universal City, CA 91608 FAX (818) 623-9829
(818) 762-6284 Direct (818) 762-6360

Mazen Dudar
05.09+ DUARTE (M-Th 7:30-6) #6-139
1600 Huntington Drive (Closed Friday)
Duarte, CA 91010 FAX (626) 358-0018
(626) 357-7931

Peter Wang
02.03+ INDUSTRY #6-686
16005 East Central Avenue
La Puente, CA 91744
(626) 961-9611 ~~FAX (626) 961-8166~~

Mazen Dudar
05.06+ IRWINDALE (M-Th 7-12) #6-687
5050 North Irwindale Avenue (Closed Friday)
Irwindale, CA 91706
(626) 430-2200 FAX (626) 962-20[illegible]8

Mazen Dudar
03.01+ LA CANADA FLINTRIDGE (8-10) #6-637
1327 Foothill Boulevard
La Canada Flintridge, CA 91011
(818) 790-8651 FAX (818) 790-7536

Jim Shih
04.01+ LAKEWOOD (M-Th, Alt. F - 7-5:30) #6-234
5050 North Clarke Avenue (Closed Alt. Fridays)
Lakewood, CA 90712
(562) 866-9771 FAX (562) 866-0505

Frank Harris
04.08+ LA MIRADA (M-F 8-10, M-T - 4-5:30) #6-287
13700 South La Mirada Boulevard
La Mirada, CA 90638
(562) 943-0131 FAX (562) 943-3666

CONTRACT CITY OFFICES

Jim Shih
04.09+ ARTESIA (8-10) #6-261
18747 Clarkdale Avenue
Artesia, CA 90701
(562) 865-6263 FAX (562) 865-6240

Gary Nehrenberg
12.05+ CARSON (M-Th 7-6) #6-242
701 East Carson Street (Closed Friday)
Carson, CA 90745
(310) 830-7600 FAX (310) 513-6243

Jim Shih
04.02+ CERRITOS (8-5) #6-258
18125 Bloomfield Avenue
Cerritos, CA 90703
(562) 860-0311 FAX (562) 916-1371

Joseph Gonzales
06.01+ COMMERCE #6-180
2535 Commerce Way
Commerce, CA 90040
(323) 887-4455 FAX (323) 838-4240

Ed Acosta
07.01+ LAWNDALE (7:30-11:30) #6-231
14717 South Burin Avenue
Lawndale, CA 90260
(310) 970-2100 FAX (310) 644-4556

Ed Acosta
12.04+ LOMITA #6-110
24320 South Narbonne Avenue
Lomita, CA 90717
(310) 534-3760 FAX (310) 530-5482

Ed Acosta
12.02+ ROLLING HILLS #6-110
24320 South Narbonne Avenue
Lomita, CA 90717
(310) 534-3760 FAX (562) 530-5480

Ed Acosta
12.03+ ROLLING HILLS ESTATES #6-110
24320 South Narbonne Avenue
Lomita, CA 90717
(310) 534-3760 FAX (310) 530-5482

Jim Shih
04.05+ SANTA FE SPRINGS (8-4) #6-262
11710 East Telegraph Road
Santa Fe Springs, CA 90670
(562) 868-0511 FAX (562) 868-7112

Mazen Dudar
05.08+ TEMPLE CITY (8-12) #6-038
9701 Las Tunas Drive
Temple City, CA 91780
(626) 285-0488 FAX (626) 285-8192

Soheila Kalhor
09.02+ WESTLAKE VILLAGE #6-661
4111 North Las Virgenes Road
Calabasas, CA 91302
(818) 880-4150 FAX (818) 880-6279

*Inspector's office hours are 8-9 a.m. daily
+Office number
>Speed dial number

DO NOT GIVE DIRECT NUMBERS TO THE PUBLIC

01/09/03

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION

ADDITIONAL CONDITIONS FOR UST CLOSURE/SITE ASSESSMENT

TITLE 23: CALIFORNIA CODE OF REGULATIONS - WATERS
DIVISION 3: STATE WATER RESOURCES CONTROL BOARD (SWRCB)
CHAPTER 30: ELECTRONIC SUBMITTAL OF INFORMATION

Article 1 – GENERAL PROVISIONS

Section 3890. General Intent, Content, and Applicability of Regulations

(a) The regulations in this Chapter are intended to provide electronic access to reports, including soil, vapor, and water data, prepared for the purpose of subsurface investigation or remediation of: (1) an unauthorized discharge or deposit of waste as defined in section 13050 of the Water Code, (2) an unauthorized release of a hazardous substance as defined in section 25281 of the Health and Safety Code, or (3) a discharge of waste to land subject to Division 2 of Title 27 or Division 3, Chapter 15, of Title 23 of the California Code of Regulations (CCR).

(b) The regulations in this Chapter require persons responsible for submitting certain reports to the State Board, a regional board, or a local agency to submit these reports electronically over the Internet to the State Board's Geotracker system.

(c) The requirements of this Chapter are in addition to, and not superseded by, any other applicable reporting requirements.

(d) Except as provided in Section 3895(b), the electronic reporting requirements of this Chapter are intended to replace requirements for the submittal of paper copies of reports, beginning July 1, 2005.

Authority cited: Sections 13196 and 13198(c), Water Code.

Reference: Sections 13196 and 13198, Water Code.

Article 2. - ELECTRONIC SUBMITTAL OF INFORMATION

Section 3891. Definition of Terms

"COELT" is the United States Army Corps of Engineers Loading Tool program. It is a relational database application that is designed to run with the Microsoft Windows operating system. COELT places laboratory data into the standardized Electronic Deliverable Format (EDF). The program can accept data from Laboratory Information Management System (LIMS) or manually entered data. COELT is an optional software application that is intended to help laboratories that require new software to produce the EDF data deliverable. COELT includes a report utility that allows hard copy laboratory reports to be printed that match the actual electronic data. For purposes of the requirements of this chapter, version 1.2a of COELT may be used. The program (coelt12i.exe) and documents (coelt 1.2i manual.zip) for version 1.2i of COELT are available through links provided at http://www.waterboards.ca.gov/ust "CSRS-H" is the California Spatial Reference System-Horizontal, which includes the High Precision Geodetic Network (HPGN), the High Precision Geodetic Network–Densification (HPGN-D) and other geodetic control positions. These control positions have been determined by Global Positioning System survey methods in accordance with first order or better standards and specifications from the Federal Geodetic Control Subcommittee (FGCS) of the Federal Geographic Data Committee. These control positions are published by the National Geodetic Survey, California Spatial Reference Center or its successor.

"EDCC" is the Electronic Deliverable Consistency Checker program, which was developed for the EDF1.2i format, described below. The EDCC program is run upon completion of an EDF report and produces an error report. This error report identifies problems within the given data set based upon the EDF database structure, guidelines, restrictions, and valid values. The error report also indicates the nature of each problem, so that the submitter can correct them. For purposes of the requirements of this chapter, the interactive web-version 1.2i or personal computer version 1.2i of EDCC shall be used. Programs (edcc.zip and edccservicepac1.zip) for version 1.2i of EDCC are available through links provided at http://www.waterboards.ca.gov/ust.

"EDF" is the Electronic Deliverable Format, originally developed for the United States Army Corps of Engineers. It is a data standard designed to facilitate transfer of electronic data files from analytical laboratories to end-users. It is a relational database whose files are related to one another through key fields. Laboratories can produce electronic EDF files by using their own LIMS or COELT software. The data components include chain-of custody information, laboratory results, and quality assurance information. For purposes of the requirements of this chapter, version 1.2i of EDF shall be used. Specifications for version 1.2i of EDF (The Electronic Deliverable Format [EDF] Version 1.2i data dictionary are available in Title 27, Division 3, Subdivision 2, Chapter 1 (Laboratory Results) CCR, through links provided at http://www.waterboards.ca.gov/ust.

"Geotracker" is the State Board's Internet-accessible database system used by the State Board, regional boards, and local agencies to track and archive compliance data from authorized or unauthorized discharges of waste to land, or unauthorized releases of hazardous substances from underground storage tanks. This system consists of a relational database, on-line compliance reporting features, a geographical information system (GIS) interface and other features that are utilized by the State Board, regional boards, local agencies, regulated industry and the public to input, manage, or access compliance and regulatory tracking data. Geotracker, initially known as the Geographical Environmental Information Management System (GEIMS) database, is available at http://geotracker.swrcb.ca.gov/.

"PDF" means Portable Document Format. "PDF" files are self-contained and cross-platform documents. A PDF file will look the same on the screen and in print, regardless of what type of computer or printer a person uses or which software package originally created the file. Although PDF files contain the complete formatting of the original document, including fonts and images, they are highly compressed, allowing efficient transfer of complex information.

"Permanent monitoring well" means any artificial excavation by any method made for the purpose of monitoring fluctuations in groundwater levels, the quality of groundwater, or the concentration of contaminants in groundwater and which is used for at least thirty days.

"Report" means any document or item that is required for submittal in order for a person to comply with a regulation, directive, or order issued by the State Board, a regional board, or a local agency, including but not limited to, any analysis of material by a laboratory that has accreditation or certification pursuant to Article 3 (commencing with Section 100825) of Chapter 4 of Part 1 of Division 101 of the Health and Safety Code.
Authority cited: Sections 13196 and 13198 (c), Water Code.
Reference: Sections 13195 (b) and 13196, Water Code.

Section 3892. Reports

The following reports are subject to the requirements of this Chapter, when those reports are required for the purpose of subsurface investigation or remediation of: (1) an unauthorized discharge or deposit of waste as defined in section 13050 of the Water Code, (2) an unauthorized release of a hazardous substance as defined in section 25281 of the Health and Safety Code, or (3) a discharge of waste to land subject to Division 2 of Title 27 or Division 3, Chapter 15 of Title 23 of the California Code of Regulations (CCR).

(a) Reports submitted pursuant to Division 3, Chapter 16, Article 11 of Title 23 of the CCR.

(b) Reports submitted pursuant to Division 2 of Title 27 or Division 3, Chapter 15 of Title 23 of the CCR.

(c) Reports submitted pursuant to section 13304 of the Water Code.

(d) Reports submitted pursuant to section 13267 of the Water Code.

(e) Reports submitted pursuant to any order or directive of the State Board, a regional board or a local agency.

(f) Reports submitted pursuant to the Two-year Joint Cooperative Agreement Execution Plans under the Defense / State Memorandum of Agreement and Navy Cost Recovery Cooperative Agreement, for the State of California.

Authority cited: Sections 13196 and 13198 (c), Water Code.

Reference: Sections 13196 (a) and 13198 (c), Water Code.

Section 3893. Electronic Submittal of Reports

(a) Persons responsible for submitting reports pursuant to this Chapter shall submit the following information described in subdivision (b) electronically over the Internet to the State Board's Geotracker system in conformance with data dictionaries found in Title 27, Division 3, Subdivision 2 (Monitoring and Release Information) and specifications contained in the State Water Resources Control Board EDF Guidelines and Restrictions (version 1.2i) and Survey XYZ Guidelines and Restrictions (Version 6). These data dictionaries and documents are available through links provided at http://www.waterboards.ca.gov/ust.

(b) Data generated after the effective date of the regulations by chemical analysis of soil, vapor, or water samples (including surface water, groundwater and influent/effluent water samples from remediation systems), shall be submitted in EDF format. All data submitted in EDF format shall be checked for errors prior to and during submittal using the EDCC software consistency-checking tool. All data submitted in EDF format must pass this error-checking tool as well as meet normal regulatory requirements in order to be considered valid data. In addition, when required for reports subject to this Chapter, the following shall also be submitted electronically:

(1) The latitude and longitude of any permanent monitoring well for which data is reported in EDF format, accurate to within 1 meter and referenced to a minimum of two reference points from the California Spatial Reference System (CSRS-H), if available.

(2) The surveyed elevation relative to a geodetic datum of any permanent monitoring well.

(3) The elevation of groundwater in any permanent monitoring well relative to the surveyed elevation.

(4) A site map or maps showing the location of all sampling points referred to in the report.

(5) The depth to the screened interval and the length of screened interval for any permanent monitoring well.

(6) Boring logs, in PDF format.

(7) A complete copy of the report, in PDF format, which includes the signed transmittal letter and professional certification.

(c) All deadlines and timeframes for submittals of reports are applicable to the information submitted electronically pursuant to this Chapter.

Authority cited: Sections 13196 and 13198 (c), Water Code.

Reference: Sections 13196 and13198 (c), Water Code.

Section 3894. Timing of Electronic Reporting Requirements

(a) Electronic submittals of information for sites subject to the requirements of Title 23, Division 3, Chapter 16, Article 11 of the California Code of Regulations, shall begin on December 16, 2004.

(b) Unless otherwise specifically noted, all other electronic submittals required pursuant to this Chapter shall begin January 1, 2005.

(c) Until July 1, 2005, the electronic reporting requirements of this Chapter are in addition to any existing paper or other reporting requirements.

Authority cited: Sections 13196 and 13198 (c), Water Code.

Reference: Sections 13196 (a) and 13198 (c), Water Code.

Section 3895. Submittal of Alternate Forms of Reports

(a) Beginning July 1, 2005, the successful submittal of electronic information in accordance with this Chapter shall replace the requirement for the submittal of a paper copy, except as provided in subdivision (b).

(b) In addition to the electronic submittal of reports required pursuant to this Chapter, a regulatory agency may require the submittal of a report, or portions thereof, in diskette, compact disc or other form if the agency determines that the alternative form is necessary. The burden, including cost, of these alternative forms shall bear a reasonable relationship to the need for alternative form and benefits to be obtained from the alternative form.

Authority cited: Sections 13196 and 13198 (c), Water Code.

Reference: Sections 13196 (a) and 13198 (c), Water Code

NOTICE: Original paper reports with wet ink signature and seal must continue to be submitted to this office pursuant to CCR Title 23, Division 3, Chapter 30, Article 2, Section 3895 (b), regardless if such report is required by regulation to be electronically uploaded to Geotracker.

CLOSURE APPLICATION SUPPLEMENT
HAZARDOUS MATERIALS UNDERGROUND STORAGE
LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION
900 S. FREMONT AVENUE
ALHAMBRA, CA 91803

PART 1 OF 3

DPW USE ONLY:
SITE-FILE NO. 3755 - 3882
APPLICATION NO. 591016

To satisfy the permanent closure requirements for underground storage tanks storing hazardous materials, site integrity must be demonstrated by the analysis of soil samples and, if applicable, groundwater samples as outlined below. These requirements are in addition to the conditions listed on the Application for Closure or contained in an approved Closure Plan.

***** Soil sampling will be required for Vent and Vapor Recovery piping for UST systems installed after July 1, 2003. *****

1. Samples shall be obtained at the sampling points (SP) indicated on the attached plot plan.

2. For each SP, samples shall be obtained at the following depths:

SP	Depth(s)	Compounds	Analysis Method
1A, 1B	2'-4' below tank invert	TPHg	~~8015M~~ 8015M
		BTEX, MTBE fuel oxygenates	8260B
		Ethanol	8260B
(pipe)	sample along the piperun at every 20' interval, 2'-4' below pipes. start @ dispensers	same as above	same as above
(dispensers)	2'-4' below each dispenser	same as above	same as above

~~X~~ Apply EPA Method 5035 for all soil sample collection, preparation, and preservation in order to minimize VOC losses.

Continued on Page 2

3. All soil samples obtained shall be discrete, undisturbed and unexposed prior to analysis. The method used to obtain the samples and the date/time of sampling shall be included in the final report.

4. Conform to the analytical requirements table below for petroleum hydrocarbon sites. Apply EPA Method 5035 specified in the USEPA SW-846, version III (12/1996) for soil sample preparation and preservation in order to minimize volatile organic losses. Use the sample collection devices, or equivalent, specified in the method (e.g., the Encore™ sampler). If the Encore™ sampler is used, analyze sample within 48 hours from the collection. Analyze sample within 10 days for soil samples stored under frozen conditions.

UST CONTENTS	Analyte	Analytical Method	Required MDL	
			Soil (ug/kg)	Water (ug/L)
GASOLINE OR DIESEL	Totoal Petroleum Hydrocarbons(TPH) - Gasoline	EPA Method 8015 (M)	100-200	50-100
	Total Petroleum Hydrocarbons (TPH) - Diesel	EPA Method 8015 (M)	1000	500
	Benzene	EPA Method 8260B (8021B)	1	0.5
	Toluene	EPA Method 8260B (8021B)	1	0.5
	Ethylbenzene	EPA Method 8260B (8021B)	1	0.5
	Xylenes (Total)	EPA Method 8260B (8021B)	1	0.5
	Methyl Tertiary Butyl Ether (MTBE)	EPA Method 8260B	2	1
	Di-isopropyl ether (DIPE)	EPA Method 8260B	2	1
	Ethyl tertiary butyl ether (ETBE)	EPA Method 8260B	2	1
	Tertiary amyl methyl ether (TAME)	EPA Method 8260B	2	1
	Tertiary butyl alcohol (TBA)	EPA Method 8260B	20	10
	Ethanol	EPA Method 8260B	500	250
	Methanol	EPA Method 8015 (M)	1000	500
WASTE OIL	Total Recoverable Petroleum Hydrocarbons (TRPH) - Waste Oil	EPA Method 418 + EPA Method 8260B	1000	500
OTHER, UNKNOWN	UST Permitted Contents, all VOC's (EPA Method 8260) + To Be Determined			

Continued on Page 3

5. All soil/groundwater samples shall be analyzed by a laboratory approved by the California Environmental Accreditation Laboratory Program (ELAP).

6. Analytical results shall be reported on laboratory letterhead and shall include the following information: a) The date the analysis was conducted; b) The method of extraction (if applicable); c) Detection limits for each analytical procedure and determination; d) The method of analysis; e) Signature of chemist certifying results.

7. All soil/groundwater samples obtained shall be handled and transported to laboratory in strict accordance with applicable EPA regulations utilizing chain-of-custody procedures. Chain-of-custody documentation shall be included in the final report.

8. If the soil/groundwater analysis indicates undefined contamination at the facility, additional sampling shall be required to define the vertical and lateral extent present.

9. If groundwater is encountered during sampling, a groundwater monitoring well shall be established at the most downgradient sampling point. The well shall be developed by removing a minimum of four well volumes and a groundwater sample shall be obtained and analyzed.

10. A final report that contains all of the above required information shall be submitted to the office above within one (1) month form the sampling date or 180 days from the date of this permit, whichever is earlier.

11. All electronic data shall be submitted to the State Water Resources Control Board Geotracker database.

CLOSURE – UNDERGROUND STORAGE TANKS

CONDITIONS A – GENERAL

1. Closures shall be carried out such that all applicable regulations from the following agencies are complied with: Los Angeles County, Department of County Engineer – Facilities; Los Angeles County Fire Department, Fire Prevention Division or the appropriate City Fire Department; South Coast Air Quality Management District; and Los Angeles County Department of Health Services.

2. The County Engineer and Fire Departments shall be notified in advance of any closure in accordance with the following:

   a. Removal of tank shall require a three (3)-business day advance notification.
   b. Permanent closure of a tank in place or a temporary closure shall require a 30-written notification.

3. Consult current fee schedule for costs.

4. All abandoned wells shall be destroyed in such a way that they will not produce water or act as a channel for interchange of water, when such interchange may result in deterioration of the quality of water in any or all water bearing formations penetrated, or present a hazard to the safety and well-being of people and animals.

5. A well destruction permit issued by the Los Angeles Department of Health Services shall be required for all wells requiring a permit for their initial construction.

6. Well destruction shall be accomplished according to methods described in the latest "Water Well Standards: State of California" by the Department of Water Resources, contained in Bulletin 74 – 81, December 1981, or any other methods that will provide equivalent or better protection.

7. Plans for the decontamination of a facility shall be submitted to the County Engineer for approval no later than 30 days before the commencement of such operations. Other agencies having jurisdiction shall also be notified. These agencies the California Regional Water Quality Board, the Los Angeles County Department of Health Services, and the South Coast Air Quality Management District.

8. Decontamination shall require the following, as a minimum:

   a. Cleaning operation shall be done under the supervision of persons who understand the hazardous potential of the original liquid stored and its components.
   b. The personnel shall be sufficiently skilled to safely carry out such operation.
   c. Contaminated materials removed from such facility shall be disposed of at legal point of discharge.
   d. The operation shall be carried out in a manner that will not endanger the health of the public and the environment.

CONDITIONS B – TEMPORARY

1. All temporary closures shall be carried out as indicated in Los Angeles County Fire Department, Fire Prevention Division, Supplement #A – Inspection Guide #6, "Abandonment or Removal of Underground Tanks, "Part A and any other applicable Parts.

2. A temporary closure shall not exceed 180 days.

CONDITION C – PERMANENT TANK (S) REMOVAL

1. All tank removals shall be carried out as indicated in Los Angeles County Fire Department, Fire Prevention Division, Supplement #A – Inspection Guide #6, Part D and any other applicable Parts.

2. Owners/operators shall notify the Building Department having jurisdiction at the place of removal if a grading permit is necessary.

3. Removed tanks shall not be transported away from the site until an inspection to establish site integrity is carried by the County Engineer.

4. If an appointment has been arranged with a County Engineer Inspector to inspect the removal of a tank, the inspector will only wait at the site a reasonable amount of time (approximately one hour) after arriving for the removal to commence. Another closure fee may be charged if the inspector has to return to the site.

5. After inspection, tank shall be transported to a legal disposal point.

6. If the tank has stored materials other than motor fuel, fuel oil or waste oil, site integrity shall be demonstrated using the soil sampling and analysis procedures described in CONDITIONS D below.

7. The site shall be filled and re-compacted to a relative compaction of 90%.

CONDITIONS D – PERMANENT

1. All permanent closures of tanks in place shall comply with Los Angeles County Fire Department, Fire Prevention Division, Supplement #A – Inspection Guide #6, Parts B or C, and any other applicable Parts.

2. Owners/operators shall demonstrate part site integrity as follows:

   a. Test borings shall be slant drilled to intercept a point beneath the center of the tank, if possible. If slant drilling is not feasible, the test boring may be drilled vertically and the reason stated in the report in 2.h. below.
   b. For single tanks, a minimum of two test borings will be required, each located on opposite sides of the tank along the major axis of the tank.
   c. For multiple tanks, as a minimum, boring shall be placed at 20-foot intervals around the tank cluster. The actual number and location of borings shall be evaluated on a case-by-case basis. Tanks separated by 20 feet or more shall be considered single tanks for the purposes of test location and placement.
   d. Soil samples shall be taken at depths of 5, 10, 20, 30 and 40 feet below grade level.
   e. A Shelby Tube or a Modified California Sampler shall be utilized for taking all soil samples.
   f. Soil samples shall not be extruded in the field but are to be immediately placed in a refrigerated ice chest and transported to a state certified laboratory for analysis, using suitable methods.
   g. A report containing the results of the above analysis shall be submitted to the County Engineer.

3. If the soil analysis in 2. above indicates the presence of contaminants, the County Engineer shall require a site investigation as described in Chapter V of the County's "Underground Storage of Hazardous Materials – Guidelines."

4. A report shall be submitted to the County Engineer containing the results of the site investigation.

NOTICE TO CLOSURE PERMIT APPLICANTS

The South Coast Air Quality Management District (SCAQMD) has adopted Rule 1166 regulating emissions of Volatile Organic Compounds (VOC) from decontamination of soil effective **August 5, 1988**.

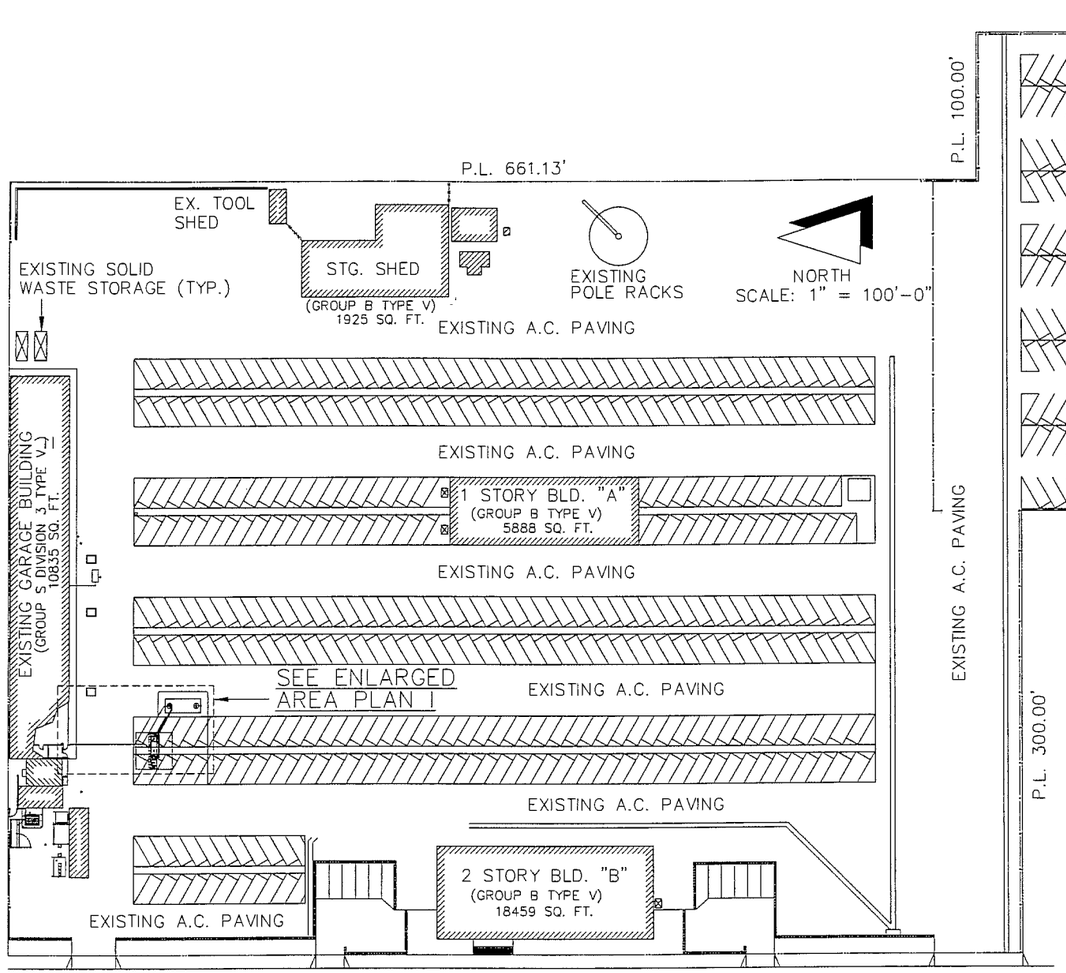
In addition to the requirements of your Closure Permit, persons excavating any underground storage tank that previously contained VOCs must:

- Notify the SCAQMD by telephone at (909) 396-2326 or by fax at (909) 396-3342 using the SCAQMD notification form 24 hours prior to tank excavation. 1166(c)(1)(A)
- Monitor the excavated material during the excavation for VOC contamination. 1166(c)(1)(B)
- When VOC contamination is detected:
  - Cease excavation.
  - Cover the contaminated soil until implementation of approved mitigation measures. 1166(c)(1)(C)
  - Notify the SCAQMD at (909) 396-2326 within 24 hours of detection of VOC contaminated soil. 1166(c)(2)(A)
- A person shall not engage in or allow any on- or off-site spreading of VOC contaminated soil which results in uncontrolled evaporation of VOC to the atmosphere. 1166(c)(3)

Exemptions

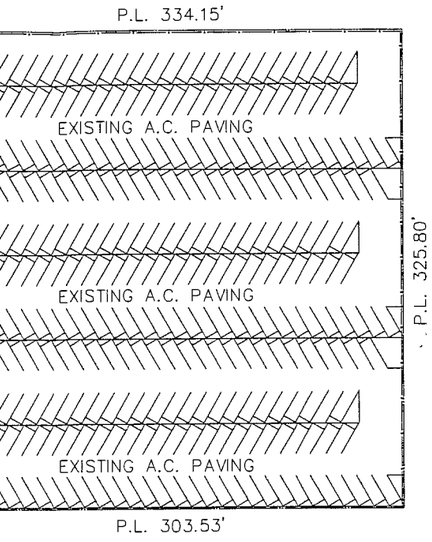
- Treatment of less than one (1) cubic yard of contaminated soil. 1166(d)(1)(A)
- Decontamination of soil containing organic compounds that have an initial boiling point of 302EF or greater, Reid Vapor Pressure less than 80 mm Hg or Absolute Vapor Pressure less than 36 mm Hg at 20EC. 1166(d)(1)(B),(F)
- Removal of soil for sampling purposes pursuant to Environmental Protection Agency methods. 1166(d)(1)(C)
- Accidental spillage of five (5) gallons or less of VOC. 1166(d)(1)(D)
- Documentation of soil which is contaminated through natural seepage of VOC from oil and gas wells or other natural sources. 1166(d)(1)(E)

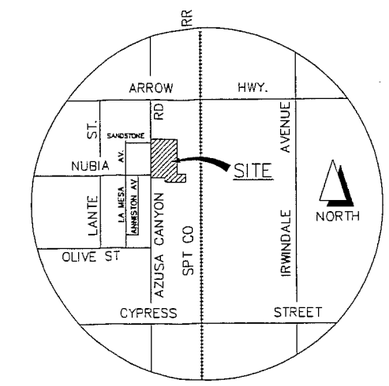
SPECIFIC QUESTIONS ON RULE 1166 SHOULD BE REFERRED TO THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (909) 396-2326



SITE PLAN

SCALE: 1"=200'-0"

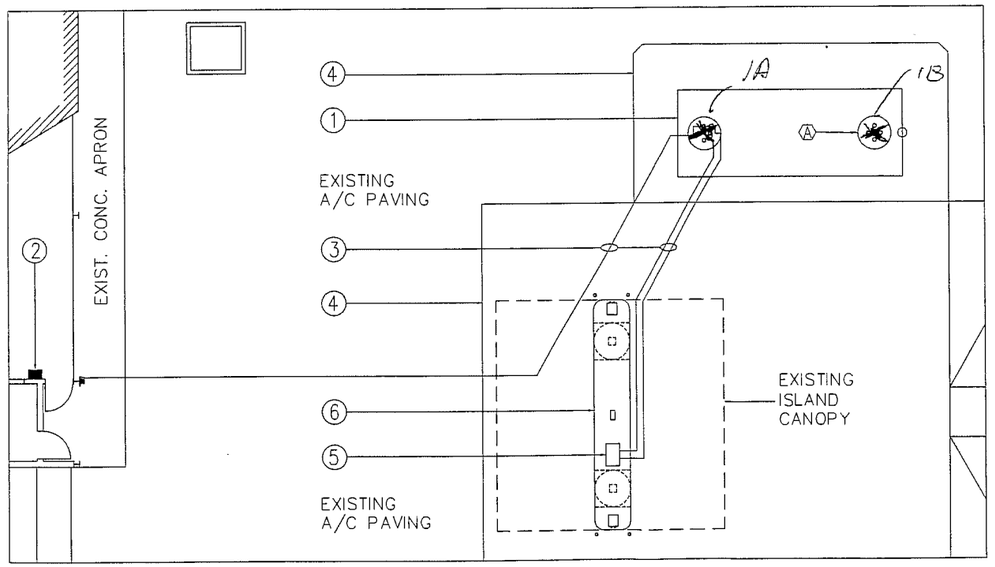




VICINITY MAP

NO SCALE

(FROM THOMAS BROTHER'S GUIDE ⓖ
(L.A./ORANGE CO., 1995 ED., PAGE 598-E3)



ENLARGED AREA PLAN I

SCALE: 1"=80'-0"

LOCATION NOTES:

1. 12,000 GALLON JOOR "PLASTEEL" DOUBLE-WALL COMPOSITE STEEL TANK.
2. VEEDER-ROOT TLS-350 TANK MONITOR SYSTEM.
3. TOTAL CONTAINMENT ENVIROFLEX PRI. & SEC. SUPPLY PIPING, & SCH. 40 SCOTCH COATED BLACK IRON (PRI) AND RED THREAD FIBERGLASS (SEC) DOUBLE WALL VAPOR RECOVERY AND VENT PIPING.
4. REINFORCED CONCRETE TANK/DRIVE/AST PADS.
5. GASBOY DUAL-HOSE GASOLINE DISPENSER.
6. CONCRETE DISPENSER ISLAND.

2766 Pomona Blvd.
Suite 1200
Pomona, California 91768
(909) 594-6850
(909) 594-6169 FAX

ISSUE

☐ HAWAII ☐ NORTHWEST
☒ CALIFORNIA
Verizon California Inc. P.O. Box 725, Chino, CA 91708 P.O. Box 2200, Honolulu, HI 96841 P.O. Box 1003, Everett, WA 98206

Verizon California Inc

PROJECT: PLOT PLAN
IRWINDALE PLANT YARD
5010 NORTH AZUSA CANYON ROAD
IRWINDALE, CALIFORNIA 91706

DRAWN BY: M. BARBER DATE: 11/04/2008

I:\Verizon\Proposals\Irwindale PY

JOOR/APPS

3755-3882

UNIFIED PROGRAM CONSOLIDATED FORM
UNDERGROUND STORAGE TANK
OPERATING PERMIT APPLICATION – TANK INFORMATION (One form per UST)

TYPE OF ACTION *(Check one item only. For a UST closure or removal, complete only this section and Sections I, II, III, IV, and IX below)* 430.

☐ 1. NEW PERMIT ☐ 3. RENEWAL PERMIT ☒ 5. CHANGE OF INFORMATION
☐ 6. TEMPORARY UST CLOSURE ☐ 7. UST PERMANENT CLOSURE ON SITE ☐ 8. UST REMOVAL

DATE UST PERMANENTLY CLOSED: 430a. DATE EXISTING UST DISCOVERED: 430b.

I. FACILITY INFORMATION

FACILITY ID # *(Agency Use Only)* 1.

BUSINESS NAME *(Same as Facility Name or DBA – Doing Business As)* 3.
Verizon California Inc. (Verizon) Irwindale PY

BUSINESS SITE ADDRESS 103.: 5010 N. Azusa Canyon Road
CITY 104.: Irwindale

II. TANK DESCRIPTION

TANK ID # 432.: 01
TANK MANUFACTURER 433.: Joor
TANK CONFIGURATION: THIS TANK IS 434.: ☒ 1. A STAND-ALONE TANK ☐ 2. ONE IN A COMPARTMENTED UNIT (Complete one page for each compartment in the unit.)
DATE UST SYSTEM INSTALLED 435.: 07/1996
TANK CAPACITY IN GALLONS 436.: 12,000
NUMBER OF COMPARTMENTS IN THE UNIT 437.: 1

III. TANK USE AND CONTENTS

TANK USE 439.: ☒ 1a. MOTOR VEHICLE FUELING ☐ 1b. MARINA FUELING ☐ 1c. AVIATION FUELING ☐ 3. CHEMICAL PRODUCT STORAGE ☐ 4. HAZARDOUS WASTE (Includes Used Oil) ☐ 5. EMERGENCY GENERATOR FUEL [HSC §25281.5(c)] ☐ 6. OTHER GENERATOR FUEL ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 439a.

CONTENTS 440.: PETROLEUM: ☒ 1a. REGULAR UNLEADED ☐ 1c. MIDGRADE UNLEADED ☐ 1b. PREMIUM UNLEADED ☐ 3. DIESEL ☐ 5. JET FUEL ☐ 6. AVIATION GAS ☐ 8. PETROLEUM BLEND FUEL ☐ 9. OTHER PETROLEUM (Specify): 440a.
NON-PETROLEUM: ☐ 7. USED OIL ☐ 10. ETHANOL ☐ 11. OTHER NON-PETROLEUM (Specify): 440b.

IV. TANK CONSTRUCTION

TYPE OF TANK 443.: ☐ 1. SINGLE WALL ☒ 2. DOUBLE WALL ☐ 95. UNKNOWN

PRIMARY CONTAINMENT 444.: ☒ 1. STEEL ☐ 3. FIBERGLASS ☐ 6. INTERNAL BLADDER ☐ 7. STEEL + INTERNAL LINING ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 444a.

SECONDARY CONTAINMENT 445.: ☒ 1. STEEL ☐ 3. FIBERGLASS ☐ 6. EXTERIOR MEMBRANE LINER ☒ 7. JACKETED ☐ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 445a.

OVERFILL PREVENTION 452.: ☒ 1. AUDIBLE & VISUAL ALARMS ☐ 2. BALL FLOAT ☐ 3. FILL TUBE SHUT-OFF VALVE ☐ 4. TANK MEETS REQUIREMENTS FOR EXEMPTION FROM OVERFILL PREVENTION EQUIPMENT

V. PRODUCT / WASTE PIPING CONSTRUCTION

PIPING CONSTRUCTION 460.: ☐ 1. SINGLE WALL ☒ 2. DOUBLE WALL ☐ 99. OTHER

SYSTEM TYPE 458.: ☐ 1. PRESSURE ☐ 2. GRAVITY ☒ 3. CONVENTIONAL SUCTION ☐ 4. SAFE SUCTION [23 CCR §2636(a)(3)]

PRIMARY CONTAINMENT 464.: ☐ 1. STEEL ☐ 4. FIBERGLASS ☒ 8. FLEXIBLE ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 464a.

SECONDARY CONTAINMENT 464b.: ☐ 1. STEEL ☐ 4. FIBERGLASS ☒ 8. FLEXIBLE ☐ 10. RIGID PLASTIC ☐ 90. NONE ☐ 95. UNKNOWN ☐ 99. OTHER (Specify): 464c.

PIPING/TURBINE CONTAINMENT SUMP TYPE 464d.: ☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL ☐ 90. NONE

VI. VENT, VAPOR RECOVERY (VR) AND RISER / FILL PIPE PIPING CONSTRUCTION

VENT PRIMARY CONTAINMENT 464e. 464e1.	☐ 1. STEEL	☒ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☐ 90. NONE	☐ 99. OTHER (Specify):	
VENT SECONDARY CONTAINMENT 464f. 464f1.	☐ 1. STEEL	☒ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☐ 90. NONE	☐ 99. OTHER (Specify):	
VR PRIMARY CONTAINMENT 464g. 464g1.	☐ 1. STEEL	☐ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☒ 90. NONE	☐ 99. OTHER (Specify):	
VR SECONDARY CONTAINMENT 464h. 464h1.	☐ 1. STEEL	☐ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☒ 90. NONE	☐ 99. OTHER (Specify):	
VENT PIPING TRANSITION SUMP TYPE 464i.	☐ 1. SINGLE WALL	☐ 2. DOUBLE WALL	☒ 90. NONE			
RISER PRIMARY CONTAINMENT 464j. 464j1.	☒ 1. STEEL	☐ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☐ 90. NONE	☐ 99. OTHER (Specify):	
RISER SECONDARY CONTAINMENT 464k. 464k1.	☐ 1. STEEL	☒ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☐ 90. NONE	☐ 99. OTHER (Specify):	
FILL COMPONENTS INSTALLED 451a-c.	☒ 1. SPILL BUCKET	☒ 3. STRIKER PLATE/BOTTOM PROTECTOR	☒ 4. CONTAINMENT SUMP			

VII. UNDER DISPENSER CONTAINMENT (UDC)

CONSTRUCTION TYPE 469a.	☒ 1. SINGLE WALL	☐ 2. DOUBLE WALL	☐ 3. NO DISPENSERS	☐ 90. NONE	
CONSTRUCTION MATERIAL 469b. 469c.	☐ 1. STEEL	☒ 4. FIBERGLASS	☐ 10. RIGID PLASTIC	☐ 99. OTHER (Specify)	

VIII. CORROSION PROTECTION

STEEL COMPONENT PROTECTION 448.: ☒ 2. SACRIFICIAL ANODE(S) ☐ 4. IMPRESSED CURRENT ☐ 6. ISOLATION

IX. APPLICANT SIGNATURE

CERTIFICATION: I certify that this UST system is compatible with the hazardous substance stored and that the information provided herein is true, accurate, and in full compliance with legal requirements.

APPLICANT SIGNATURE
DATE 470.: 9/9/2008
APPLICANT NAME (print) 471.: Zachary Feingold
APPLICANT TITLE 472.: Environmental Manager

AAG/LTMP

UNIFIED PROGRAM CONSOLIDATED FORM
UNDERGROUND STORAGE TANK
MONITORING PLAN – (Page 2 of 2)

3755 - 3882

VI. UNDER DISPENSER CONTAINMENT (UDC) MONITORING

(Check all that apply)

UDC MONITORING IS PERFORMED USING THE FOLLOWING METHOD(S)

☒ 1. CONTINUOUS ELECTRONIC MONITORING ☐ 2. FLOAT AND CHAIN ASSEMBLY ☐ 3. ELECTRONIC STAND-ALONE 490-54a.

☐ 4. NO DISPENSERS ☐ 99. OTHER (Specify) 490-54b.

LEAK MONITOR MANUFACTURER: VeederRoot 490-55. MODEL #: TLS-350 490-56.

LEAK SENSOR MANUFACTURER: VeederRoot 490-57. MODEL #(S): 794380-320 490-58.

DETECTION OF A LEAK INTO THE UDC TRIGGERS AUDIBLE AND VISUAL ALARMS. ☒ a. YES ☐ b. NO 490-59.

UDC LEAK ALARM TRIGGERS AUTOMATIC PUMP SHUTDOWN. ☒ a. YES ☐ b. NO 490-60.

FAILURE/DISCONNECTION OF UDC MONITORING SYSTEM TRIGGERS AUTOMATIC PUMP SHUTDOWN. ☒ a. YES ☐ b. NO 490-61.

UDC MONITORING STOPS THE FLOW OF PRODUCT AT THE DISPENSER. ☒ a. YES ☐ b. NO 490-62.

UDC CONSTRUCTION IS: ☒ 1. SINGLE WALL ☐ 2. DOUBLE WALL 490-63.

IF DOUBLE WALL: 490-64a.

UDC INTERSTITIAL SPACE IS MONITORED BY: ☐ a. LIQUID ☐ b. PRESSURE ☐ c. VACUUM

A LEAK WITHIN THE SECONDARY CONTAINMENT OF THE UDC TRIGGERS AUDIBLE AND VISUAL ALARMS. ☐ a. YES ☐ b. NO 490-64b.

VII. PERIODIC SYSTEM TESTING

☐ 1. ELD TESTING: THIS FACILITY HAS BEEN NOTIFIED BY THE STATE WATER RESOURCES CONTROL BOARD THAT ENHANCED LEAK DETECTION (ELD) MUST BE PERFORMED. PERIODIC ELD IS PERFORMED EVERY 36 MONTHS AS REQUIRED. [23 CCR §2644.1] 490-65.

☒ 2. SECONDARY CONTAINMENT COMPONENTS ARE TESTED EVERY 36 MONTHS. 490-66.

☒ 3. SPILL BUCKETS ARE TESTED ANNUALLY. 490-67.

VIII. RECORD KEEPING

The following monitoring/maintenance records are kept for this facility: 490-68.

☒ a. ALARM LOGS ☐ b. VISUAL INSPECTION RECORDS ☐ c. TANK INTEGRITY TESTING RESULTS

☐ d. SIR TESTING RESULTS (and supporting documentation records) ☐ e. TANK GAUGING RESULTS (and supporting documentation records)

☐ f. ATG TESTING RESULTS (and supporting documentation records) ☐ g. CORROSION PROTECTION 60-DAY LOGS

☒ h. EQUIPMENT MAINTENANCE AND CALIBRATION RECORDS

IX. TRAINING

☒ Personnel with UST monitoring responsibilities are familiar with all of the following documents relevant to their job duties: 490-69a.

REFERENCE DOCUMENTS MAINTAINED AT FACILITY *(Check all that apply)*

☒ THIS UNDERGROUND STORAGE TANK MONITORING PLAN **(Required)** 490-69b.

☒ OPERATING MANUALS FOR ELECTRONIC MONITORING EQUIPMENT **(Required)** 490-69c.

☐ CALIFORNIA UNDERGROUND STORAGE TANK REGULATIONS 490-69d.

☐ CALIFORNIA UNDERGROUND STORAGE TANK LAW 490-69e.

☐ STATE WATER RESOURCES CONTROL BOARD (SWRCB) PUBLICATION: "HANDBOOK FOR TANK OWNERS - MANUAL AND STATISTICAL INVENTORY RECONCILIATION" 490-69f.

☐ SWRCB PUBLICATION: "UNDERSTANDING AUTOMATIC TANK GAUGING SYSTEMS" 490-69g.

☐ OTHER (Specify): _____ 490-69h. 490-69i.

☒ This facility has a "Designated UST Operator" who has passed the California UST System Operator Exam administered by the International Code Council (ICC). The "Designated UST Operator" will train facility employees in the proper operation and maintenance of the UST systems annually, and within 30 days of hire. This training will include, but is not limited to, the following: 490-70.

- Operation of the UST systems in a manner consistent with the facility's best management practices.
- The facility employee's role with regard to the monitoring equipment as specified in this UST Monitoring Plan.
- The facility employee's role with regard to spills and overfills as specified in the facility's UST Response Plan.
- Name(s) of contact person(s) for emergencies and monitoring alarms.

X. COMMENTS/ADDITIONAL INFORMATION

Provide additional comments here or indicate how many pages with additional information on specific monitoring procedures are attached to this plan. 490-71.

Additional routine monitoring procedures attached.

XI. PERSONNEL RESPONSIBILITIES

The UST Owner/Operator is responsible for ensuring that: 1.) the daily/routine UST monitoring activities and maintenance of UST leak detection equipment covered by this plan occurs; 2.) all conditions that indicate a possible release are investigated; and 3.) all monitoring records are maintained properly.

THE FOLLOWING PERSON(S) ARE RESPONSIBLE FOR PERFORMING THE MONITORING AND EQUIPMENT MAINTENANCE:

NAME: Mark Fellbaum 490-72. TITLE: Fleet Supervisor 490-73.

NAME: 490-74. TITLE: 490-75.

The Designated UST Operator shall perform a monthly visual inspection of the facility, provide a report to the owner/operator, and inform the owner/operator of any conditions that need follow-up action.

XII. OWNER/OPERATOR SIGNATURE

CERTIFICATION: I certify that the information provided herein is true and accurate to the best of my knowledge.

APPLICANT SIGNATURE

DATE: 9/9/2008 490-77.

REPRESENTING: ☒ 1. Tank Owner/Operator ☐ 2. Facility Owner/Operator ☐ 3. Authorized Representative of Owner 490-76.

APPLICANT NAME (print): Zach Feingold as agenct for Verizon 490-78.

APPLICANT TITLE: Environmental Manager 490-79.

C8408

(Agency Use Only) This plan has been reviewed and: ☐ Approved ☐ Approved With Conditions ☐ Disapproved

Local Agency Signature: _____ Date: _____

Comments or Special Conditions: _____

_____

UPCF UST Monitoring Plan – Page 2 Instructions

Complete a separate UST Monitoring Plan for each UST monitoring system at the facility. This form must be submitted with your initial UST Operating Permit Application and within 30 days of changes in the information it contains. Please note that your local agency may require you to obtain approval prior to installing or modifying monitoring equipment. (Note: Numbering of these instructions follows the data element numbers on the form.)

490-54a. MONITORING OF THE UNDER DISPENSER CONTAINMENT – Indicate the method used for UDC monitoring.
490-54b. SPECIFY – If 99 "Other" is checked, describe other method used.
If VI-1-1, VI-1-2 or VI-1-3 or VI-1-99 is checked, complete 490-55 to 490-64b.
490-55. PANEL MANUFACTURER – Enter the name of the manufacturer of the monitoring system control panel (console). If there is no control panel (e.g., only an electrical relay box is installed) leave this space blank.
490-56. MODEL # – Enter the model number for the monitoring system control panel (console). If there is no control panel (e.g., only an electrical relay box is installed) leave this space blank.
490-57. LEAK SENSOR MANUFACTURER – Enter the name of the manufacturer of the sensor(s).
490-58. MODEL #(S) – Enter the model number of the sensor(s) installed. If additional space is needed, use Section X.
490-59. DETECTION OF A LEAK INTO THE UDC TRIGGERS AUDIBLE AND VISUAL ALARMS. Indicate Yes or No.
490-60. UDC LEAK ALARM TRIGGERS PUMP SHUTDOWN – Indicate Yes or No.
490-61. FAILURE/DISCONNECTION OF UDC MONITORING SYSTEM TRIGGERS AUTOMATIC PUMP SHUTDOWN – Indicate Yes or No.
490-62. UDC MONITORING STOPS THE FLOW OF PRODUCT AT THE DISPENSER – Indicate Yes or No.
490-63. UDC CONSTRUCTION – Indicate if the construction of the UDC is single-walled, or double-walled.
490-64a. DOUBLE-WALLED INTERSTITIAL SPACE MONITORING – Indicate what is used to monitor the interstitial space.
490-64b. LEAK WITHIN THE SECONDARY CONTAINMENT OF UDC TRIGGERS AUDIBLE AND VISUAL ALARMS – Indicate Yes or No.
490-65. VII-1 ELD TESTING – Check the box if you have been notified by the State Water Resources Control Board (SWRCB) that the UST(s) covered by this plan is/are subject to Enhanced Leak Detection Requirements (i.e., UST has any single-wall component and is located within 1,000 feet of a public drinking water well).
490-66. TESTING OF SECONDARY CONTAINMENT COMPONENTS EVERY 36 MONTHS – Check the box if you have secondary containment that requires testing.
490-67. SPILL BUCKET TESTING – Check the box if you have spill buckets.
490-68. VIII RECORDKEEPING – Indicate which monitoring and equipment maintenance records are maintained for this facility.
490-69a. IX TRAINING STATEMENT – Check the box to verify that the statement is true.
REFERENCE DOCUMENTS MAINTAINED AT FACILITY – Check the appropriate boxes to describe reference documents maintained at the facility. Note that the first two items on the list must be kept at the facility.
490-69b. MONITORING PLAN: Indicate that this plan is kept as a reference document.
490-69c. OPERATING MANUALS FOR ELECTRONIC EQUIPMENT: Indicate that this plan is kept as a reference document.
490-69d. CA UST REGULATIONS – Indicate that this is kept as a reference document.
490-69e. CA UST LAW – Indicate that this is kept as a reference document.
490-69f. STATE WATER RESOURCES CONTROL BOARD (SWRCB) PUBLICATION – "HANDBOOK FOR TANK OWNERS – MANUAL AND STATISTICAL INVENTORY RECONCILIATION": Indicate that this is kept as a reference document.
490-69g. SWRCB PUBLICATION: "UNDERSTANDING AUTOMATIC TANK GAUGING SYSTEMS": Indicate that this is kept as a reference document.
490-69h. OTHER – Indicate that other reference documents are kept.
490-69i. SPECIFY – If "OTHER" is checked, enter a brief description of the other document(s) maintained at the facility. If additional space is needed, see Section X.
490-70. DESIGNATED OPERATOR TRAINING – Check this box to verify that this statement is true.
490-71. COMMENTS/ADDITIONAL INFORMATION – Make additional comments or you may attach and identify the number of additional pages of information to describe any additional UST system monitoring-related information (e.g., additional information required by your local agency). Attach any monitoring logs that you will be using for the monitoring of your tank system
490-72. NAME – Enter the name of the person who routinely conducts the monitoring and equipment maintenance under this plan.
490-73. TITLE – Enter the title of the person.
490-74. NAME – Enter the name of the second person, if applicable, who routinely conducts the monitoring and equipment maintenance under this plan.
490-75. TITLE – Enter the title of the second person.
OWNER/OPERATOR SIGNATURE – The tank owner/operator, facility owner/operator, or an authorized representative of the owner shall sign in the space provided. This signature certifies that the signer believes that all information submitted is true, accurate, and complete, and that the training program specified in Section IX has been implemented.
490-76. REPRESENTING – Check the appropriate box to indicate whether the signer is the UST owner/operator, the UST facility owner/operator, or an authorized representative of the owner.
490-77. DATE – Enter the date the plan was signed.
490-78. APPLICANT NAME – Print or type the name of the person signing the plan.
490-79. APPLICANT TITLE – Enter the title of the person signing the plan.

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UNDERGROUND STORAGE TANK

RESPONSE PLAN – PAGE 1

(One form per facility)

TYPE OF ACTION ☐ 1. NEW PLAN ☐ 2. CHANGE OF INFORMATION R01.

I. FACILITY INFORMATION

FACILITY ID # *(Agency Use Only)* | | | — | | | | — | | | | | | | | 1.

BUSINESS NAME (Same as FACILITY NAME) 3.

Verizon California Inc. (Verizon) Irwindale PY

BUSINESS SITE ADDRESS 103.	BUSINESS SITE CITY 104.
5010 N. Azusa Canyon Road	**Irwindale**

II. SPILL CONTROL AND CLEANUP METHODS

This plan addresses unauthorized releases from UST systems and supplements the emergency response plans and procedures in the facility's Hazardous Materials Business Plan (HMBP).

- If safe to do so, facility personnel will take immediate measures to control or stop any release (e.g., activate pump shut-off, etc.) and, if necessary, safely remove remaining hazardous material from the UST system.
- Any release to secondary containment will be pumped or otherwise removed within a time consistent with the ability of the secondary containment system to contain the hazardous material, but not greater than 30 calendar days, or sooner if required by the local agency. Recovered hazardous materials, unless still suitable for their intended use, will be managed as hazardous waste.
- Absorbent material will be used to contain and clean up manageable spills of hazardous materials. Absorbent material which has become too saturated to be effective or which is no longer intended for use will be managed as hazardous waste unless a waste determination in accordance with 22 CCR §66262.11 finds that it is non-hazardous. Used absorbent material, reusable or waste, will be stored in a properly labeled and sealed container. Waste material shall be disposed of appropriately.
- Facility personnel will determine whether any water removed from secondary containment systems, or from clean-up activity, has been in contact with any hazardous material. If the water is contaminated, it will be managed as hazardous waste unless a hazardous waste determination in accordance with 22 CCR §66262.11 finds that it is non-hazardous. If the water has a petroleum sheen (i.e., rainbow colors), it is contaminated. A thick floating petroleum layer may not necessarily display rainbow colors. Water (hazardous or non-hazardous) from sumps, spill containers, etc. will not be disposed to storm water systems.
- We will review secondary containment systems for possible deterioration if any of the following conditions occur:
  1. Hazardous material in contact with secondary containment is not compatible with the material used for secondary containment;
  2. Secondary containment is prone to damage from any equipment used to remove or clean up hazardous material collected in secondary containment;
  3. Hazardous material, other than the product/waste stored in the primary containment system, is placed inside secondary containment to treat or neutralize released product/waste, and the added material or resulting material from such a combination is not compatible with secondary containment.

III. SPILL CONTROL AND CLEAN-UP EQUIPMENT

PERIODIC MAINTENANCE: Spill control and clean-up equipment kept permanently on-site is listed in the facility's Hazardous Materials Business Plan. This equipment is inspected at least monthly, and after each use, supplies are replenished as needed. Defective equipment is repaired or replaced as necessary.

EQUIPMENT NOT PERMANENTLY ON-SITE, BUT AVAILABLE FOR USE IF NEEDED: *(Complete only if applicable)*

EQUIPMENT	LOCATION	AVAILABILITY
R10.	R20.	R30.
R11.	R21.	R31.
R12.	R22.	R32.
R13.	R23.	R33.
R14.	R24.	R34.
R15.	R25.	R35.

IV. RESPONSIBLE PERSONS

THE FOLLOWING PERSON(S) IS/ARE RESPONSIBLE FOR AUTHORIZING ANY WORK NECESSARY UNDER THIS RESPONSE PLAN:

NAME	TITLE
R40. **Zachary Feingold**	R50. **Environmental Manager (909-620-5498)**
R41. **Verizon - Environment Management**	R51. **Emergency Contact Number (1-800-386-9639, option2)**
R42.	R52.
R43.	R53.

V. MONITORING INDICATORS

IF MONITORING INDICATES A POSSIBLE UNAUTHORIZED RELEASE, STEPS TO VERIFY THE RELEASE WILL BE MADE AS FOLLOWS:

☐ 1. ADDITIONAL SYSTEM TESTING OR DATA COLLECTION ☒ 2. INSPECTION BY QUALIFIED PERSONS ☐ 3. RECALIBRATION OF EQUIPMENT R60.

☐ 99. OTHER (Specify): R61.

UNDERGROUND STORAGE TANK

RESPONSE PLAN – PAGE 2

VI. REPORTING AND RECORD KEEPING

We will report/record any overfill, spill, or unauthorized release from a UST system as indicated in this plan.

Recordable Releases: Any unauthorized release from primary containment which the UST operator is able to clean up within eight (8) hours after the release was detected or should reasonably have been detected, and which does not escape from secondary containment, does not increase the hazard of fire or explosion, and does not cause any deterioration of secondary containment, must be recorded in the facility's monitoring records. Monitoring records must include:

- The UST operator's name and telephone number;
- A list of the types, quantities, and concentrations of hazardous substances released;
- A description of the actions taken to control and clean up the release;
- The method and location of disposal of the released hazardous substances, and whether a hazardous waste manifest was or will be used;
- A description of actions taken to repair the UST and to prevent future releases;
- A description of the method used to reactivate interstitial monitoring after replacement or repair of primary containment.

Reportable Releases: Any overfill, spill, or unauthorized release which escapes from secondary containment (or primary containment if no secondary containment exists), increases the hazard of fire or explosion, or causes any deterioration of secondary containment, is a reportable release. Reportable releases are also recordable.

Within 24 hours after a reportable release has been detected, or should have been detected, we will notify the local agency administering the UST program of the release, investigate the release, and take immediate measures to stop the release. If necessary, or if required by the local agency, remaining stored product/waste will be removed from the UST to prevent further releases or facilitate corrective action. If an emergency exists, we will notify the State Office of Emergency Services.

Within five (5) working days of a reportable release, we will submit to the local agency a full written report containing all of the following information to the extent that the information is known at the time of filing the report:

- The UST owner's or operator's name and telephone number;
- A list of the types, quantities, and concentrations of hazardous materials released;
- The approximate date of the release;
- The date on which the release was discovered;
- The date on which the release was stopped;
- A description of actions taken to control and/or stop the release;
- A description of corrective and remedial actions, including investigations which were undertaken and will be conducted to determine the nature and extent of soil, ground water or surface water contamination due to the release;
- The method(s) of cleanup implemented to date, proposed cleanup actions, and a schedule for implementing the proposed actions;
- The method(s) and location(s) of disposal of released hazardous materials and any contaminated soils, groundwater, or surface water.
- Copies of any hazardous waste manifests used for off-site transport of hazardous wastes associated with clean-up activity;
- A description of proposed methods for any repair or replacement of UST system primary/secondary containment systems;
- A description of additional actions taken to prevent future releases.

We will follow the reporting procedures described above if any of the following conditions occur:

- A recordable unauthorized release can not be cleaned up or is still under investigation within eight (8) hours of detection;
- Released hazardous substances are discovered at the UST site or in the surrounding area;
- Unusual operating conditions are observed, including erratic behavior of product dispensing equipment, sudden loss of product, or the unexplained presence of water in the tank, unless system equipment is found to be defective and is immediately repaired or replaced, and no leak has occurred;
- Monitoring results from UST system monitoring equipment/methods indicate that a release may have occurred, unless the monitoring equipment is found to be defective and is immediately repaired, recalibrated, or replaced, and additional monitoring does not confirm the initial results.

Record Retention: Monitoring records and written reports of unauthorized releases must be maintained on-site (or off-site at a readily available location, if approved by the local agency) for at least 3 years. Hazardous waste shipping/disposal records (e.g., manifests) must be maintained for at least 3 years from the date of shipment.

VII. OWNER/OPERATOR SIGNATURE

CERTIFICATION: I certify that the information provided herein is true and accurate to the best of my knowledge.

OWNER/OPERATOR SIGNATURE	DATE R70.
	9/9/2008
OWNER/OPERATOR NAME (print) R71.	OWNER/OPERATOR TITLE R72.
Zachary Feingold as agent for Verizon	Environmental Manager

(Agency Use Only) This plan has been reviewed and: ☐ Approved ☐ Approved With Conditions ☐ Disapproved

Local Agency Signature: _____ Date: _____

APPLICATION FOR INDUSTRIAL WASTE DISPOSAL PERMIT

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
Environmental Programs Division
900 South Fremont Avenue, 3rd Floor Annex Building
Alhambra, CA 91803-1331
Telephone: (626) 458-3517 Fax: (626) 458-3569
http://www.CleanLA.com

TO BE COMPLETED BY DPW ONLY

SITE 3755 FILE 61982
APP NO. 831870 AREA 3S
PERMIT TYPE & NO. 01 / 849145

CHECK ONE: ☐ New Permit ☐ Permit Revision ☐ Non-Use Permit ☑ Change of Ownership (Effective Date: 4/1/2016)

BUSINESS NAME FRONTIER CALIFORNIA INC. Tel. 909-620-5962

LEGAL COMPANY NAME FRONTIER COMMUNICATIONS INC.
☐ Corporation / LLC ☐ Partnership ☐ Individual ☐ Government Agency

LOCATION ADDRESS 5010 AZUSA CANYON ROAD
Street

MAILING ADDRESS 280 S. LOCUST STREET; POMONA CA 91766
Street Unit City State ZIP+4

TYPE OF INDUSTRY TelCo
General Description

PROPERTY OWNER NAME FRONTIER CALIFORNIA INC. Tel: 909-620-5962
Federal SIC Number(s) NAICS Number(s)

PROPERTY OWNER ADDRESS 280 S. LOCUST STREET; POMONA CA 91766

ASSESSOR'S PARCEL IDENTIFICATION: Map Book _____ Page _____ Parcel # _____ (From tax bill)

GENERAL DESCRIPTION: Describe each disposal method. Multiple disposal methods may require separate permits.

Method of disposal: ☑ Sanitary sewer ☐ Private underground disposal system ☐ Haul to legal disposal point

☐ Surface waters, stream or storm drain (provide NPDES Permit, if required) ☐ Rain Diversion System (RDS)

Subject to stormwater treatment BMP approval? ☐ Yes ☒ No Type(s) of BMPs: NA

Raw materials used (attach MSDS's, where appropriate): _____

Products produced: _____

Wastewater producing operations (describe): _____

Constituents of waste discharge: _____

Hours of operation: 8:00 AM to 5:00 PM Days per week (Check days): ☑ M ☑ T ☑ W ☑ Th ☑ F ☐ Sa ☐ Su

Average daily wastewater flow rate (gal per day): _____ Time of discharge: _____ to _____

Estimated five-minute peak wastewater flow rate (gal per min): _____ ☐ Trade secret

PERSON RESPONSIBLE FOR INDUSTRIAL WASTE DISCHARGE:

AS A CONDITION OF THE ISSUANCE OF THE PERMIT HEREIN APPLIED FOR, THE APPLICANT AGREES TO SUBMIT ADDITIONAL INFORMATION AS MAY BE REQUIRED BY THE DIRECTOR OF PUBLIC WORKS. PERMITS MAY BE SUBJECT TO ADDITIONAL CONDITIONS AND LIMITATIONS. AN ANNUAL FEE MAY BE REQUIRED UPON PERMIT ISSUANCE.
I AFFIRM THAT ALL INFORMATION FURNISHED IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

NAME (Please print) MASOOD CHOUDHURY TITLE ENVR MANAGER

SIGNATURE _____ DATE Aug 15, 2016 TEL. 909-620-5962

RETURN THIS APPLICATION, REQUIRED PLANS, SUPPORTING INFORMATION, AND AN APPLICATION/PLAN REVIEW FEE (CHECK FOR FEE AMOUNT) OF: $ 144.00	*PAYABLE TO:* **COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS**

Complete Certification of Compliance with Los Angeles County Lobbyist Ordinance on the back of this form IWDP-DPW Rev. 04/2016 1 of 2

* PAID $114 CK# 70494311

Items to consider when applying for Industrial Waste Disposal Permit in Los Angeles County:

Application Form:

- The Permit application must be completely filled out and signed by the person responsible for the waste discharge. Since this is an operating permit application, the signature of the consultant is **NOT** acceptable
- Alternatively, the responsible party can give their consent through a letter of authorization to another person such as a contractor or an architect. The authorization letter needs to be provided to us and must contain contact information of person responsible for the permit.
- Any proposed permit application may be subject to joint permit with County Sanitation District.

Plan Requirements:

- Two (2) sets of plans for Domestic Waste Clearance (i e sanitary waste only)
- Four (4) sets of plans for Public Works Industrial Waste:
  - All plans shall be to scale with minimum size of 11" x 17" and preferably 24" x 36"
  - Site plan shows location of existing buildings on the property with the proposed pre-treatment system(s) indicated, address, property line, sanitary sewer and sewer connections where applies, parking spaces, occupancies of all adjoining suites, the direction North, etc.
  - Architectural floor plan identifying each area in the building by its use, i.e., food preparation, car wash, plating, laboratory, storage, office, restrooms, etc.
  - Plumbing plan showing all drains including floor drains, floor sinks, trench drains, service sinks, and supply/waste lines and facilities handling industrial wastewater from the point of origin to the connection to the point of disposal, i.e public sewer, private disposal system, and/or holding facility for offsite disposal. All equipment or facilities generating industrial wastewater must be identified on the plans
  - Detail drawings of all pretreatment systems with dimensions and manufacturer's specifications

Rain Diversion System Guidelines:

- To obtain guidelines for the discharge of rainwater, please refer to County Sanitation District's website
  - http://www.lacsd.org/wastewater/industrialwaste/iwpolicies/waterdischarges.asp

Fees

- A permit processing fee and a plan check fee will be determined based on the type of industry and the facility location. Please contact this office for further information

References:

- Obtaining SIC Codes: https://www.osha.gov/p1s/imis/sicsearch.html
- North American Industry Classification System (NAICS) http://www.census.gov/eos/www/naics/
- LA County Sanitation Distnct (LACSD): http://www.lacsd.org/
- LA County - Los Angeles County Office of the Assessor: http://assessor.lacounty.gov/

CERTIFICATION OF COMPLIANCE WITH LOS ANGELES COUNTY LOBBYIST ORDINANCE

This is to certify that I, as permit applicant, for the project located at 5010 AZUSA CANYON Rd; IRWINDALE CA.
LOCATION ADDRESS

am familiar with the requirements of Los Angeles County Code Chapter 2.160 et seq , (relating to the Los Angeles County Lobbyist Ordinance) and that all persons acting on behalf of myself have complied and will continue to comply therewith through the application process.

MASOOD CHOUDHURY — APPLICANT (PRINT NAME)

APPLICANT SIGNATURE

FRONTIER CALIFORNIA INC. — COMPANY NAME (If employed by an entity/agency)

Aug 16, 2016 — DATE

If you suspect fraud or wrongdoing by a County employee, please report it to the County Fraud Hotline at 1-800-544-6861 or www.lacountyfraud.org.
You may remain anonymous.

INDUSTRIAL WASTE DISPOSAL PERMIT
OPERATING PERMIT-LOCAL SEWER

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION
P. O. BOX 1460
ALHAMBRA, CA 91802-1460 TEL: (626) 458-3517

PERMIT NO: 000849145
EFFECTIVE DATE: 12/15/16
EXPIRATION DATE:

PERMISSION IS HEREBY GRANTED TO:

FRONTIER CALIFORNIA INC 280 S LOCUST ST POMONA, CA 91766	<< CERTIFICATE HOLDER	003755 061982 3S 5010 AZUSA CANYON RD MASSOUD CHOUDHURY, ENVIRO MNGR (909) 620-5962	<<<<< FILE NUMBER/AREA <<<<< FACILITY ADDRESS <<<<< PRIMARY CONTACT <<<<< CONTACT PHONE

TO TREAT/STORE/DISPOSE INDUSTRIAL WASTE MATERIALS LOCATED AT THE FACILITY INDICATED ABOVE, UNDER THE SANITARY SEWER AND INDUSTRIAL WASTE ORDINANCE FOR:

CITY OF IRWINDALE LOCAL ORDINANCE/CSDLAC EXEMPT	<<<<< AREA/CITY <<<<< JURISDICTION	TITLE 13, I, CH 13.04 TRUCK REPAIR & EXTERIOR WASHING	<<<<< ORDINANCE/MUN CODE <<<<< INDUSTRY

THE INDUSTRIAL WASTE OPERATIONS REGULATED BY THIS PERMIT CONSIST OF THE FOLLOWING:
WASTE GENERATING OPERATIONS: VEHICLE WASHING
CONSTITUENTS: DIRTY WATER, SOAP, OIL
DISCHARGE TIME: FROM 08.00.00 TO 17.00.00 DISCHARGE DAYS: M T W TH F
AVERAGE FLOW: 300 GAL PER DAY PEAK FLOW: 3 GAL PER MIN
FACILITY: 1001-1250 GAL, 3 COMP, PRECAST

THIS CERTIFICATE IS SUBJECT TO THE FOLLOWING CONDITIONS:

A1 COND & LIM, PUBLIC SEWER	A2 COND & LIM, PUBLIC SEWER (CONTD)
B1 WASTES NOT AUTHORIZED, PUBLIC SEWER AND ON-SITE	C1 GENERAL CONDITIONS & LIMITATIONS
D1 EFFLUENT LIMITS, JOINT OUTFALL	S3 AUTO REPAIR STORMWATER BMP POSTER

THE PLANS APPROVED IN CONJUNCTION WITH THIS PERMIT AND ANY PLANS REFERENCED HEREIN ARE MADE PART OF THIS PERMIT. THE INDUSTRIAL WASTE CONTROL ENGINEERING INSPECTOR IN YOUR AREA WILL EXPLAIN THE PERMIT CONDITIONS, AND MAKE PERIODIC INSPECTIONS OF YOUR OPERATIONS. THIS PERMIT IS SUBJECT TO ANNUAL INDUSTRIAL WASTE INSPECTION FEES.

GAIL FARBER
DIRECTOR OF PUBLIC WORKS

BY: _____
ENVIRONMENTAL PROGRAMS DIVISION

DATE OF ISSUANCE: 12/29/16

38-003 DPW 12/86

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION
P. O. BOX 1460
ALHAMBRA, CA 91802-1460 TEL: (626) 458-3517

INDUSTRIAL WASTE DISPOSAL PERMIT

PERMIT NO: 000849145
EFFECTIVE DATE: 12/15/16
EXPIRATION DATE:

PERMISSION IS HEREBY GRANTED TO:

FRONTIER CALIFORNIA INC 280 S LOCUST ST POMONA, CA 91766	<< CERTIFICATE HOLDER	003755 061982 3S 5010 AZUSA CANYON RD MASSOUD CHOUDHURY, ENVIRO MNGR (909) 620-5962	<<<<< FILE NUMBER/AREA <<<<< FACILITY ADDRESS <<<<< PRIMARY CONTACT <<<<< CONTACT PHONE

TO TREAT/STORE/DISPOSE INDUSTRIAL WASTE MATERIALS LOCATED AT THE FACILITY INDICATED ABOVE, UNDER THE SANITARY SEWER AND INDUSTRIAL WASTE ORDINANCE FOR:

CITY OF IRWINDALE LOCAL ORDINANCE/CSDLAC EXEMPT	<<<<< AREA/CITY <<<<< JURISDICTION	TITLE 13, I, CH 13.04 TRUCK REPAIR & EXTERIOR WASHING	<<<<< ORDINANCE/MUN CODE <<<<< INDUSTRY

POST THIS AT YOUR LOCATION

PERMIT/CERTIFICATE

ANNUAL INDUSTRIAL WASTE INSPECTION FEE

DUPLICATE BILL

FRONTIER CALIFORNIA INC
5010 AZUSA CANYON RD
IRWINDALE, CA 91706-1830

PERMIT NO: P000849145
FILE NO: 003755 061982
AREA: 3S
DATE: 01/03/17

PERMITTEE MAILING ADDRESS: FRONTIER CALIFORNIA INC
280 S LOCUST ST
POMONA, CA 91766

RETURN TO: LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
CASHIER UNIT
P. O. BOX 1460
ALHAMBRA, CA 91802

MAKE CHECK PAYABLE TO: L.A. COUNTY DEPARTMENT OF PUBLIC WORKS

****
$166.50 *
* DUE DATE: 01/26/17 *
****

IND: 213 TRUCK REPAIR & EXTERIOR WASHIN JURIS: C LOCAL ORDINANCE/CSDLAC EXEMPT PERMIT TYPE: 01 OPERATING PERMIT-LOCAL SEWER

FEE TYPE	FEE DESCRIPTION	AMOUNT OWING	
I04	ANNUAL PERMIT FEE	$166.50	
	TOTAL	$166.50	DUE DATE: 01/26/17

REFER ALL INQUIRES TO: L.A. COUNTY DEPARTMENT OF PUBLIC WORKS (626) 458-3517
* RETAIN THIS PORTION FOR YOUR RECORDS *

FRONTIER CALIFORNIA INC
5010 AZUSA CANYON RD
IRWINDALE, CA 91706-1830

ANNUAL INDUSTRIAL WASTE INSPECTION FEE

DUPLICATE BILL

PERMIT NO: P000849145
FILE NO: 003755 061982
AREA: 3S
DATE: 01/03/17

PERMITTEE MAILING ADDRESS: FRONTIER CALIFORNIA INC
280 S LOCUST ST
POMONA, CA 91766

RETURN TO: LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
CASHIER UNIT
P. O. BOX 1460
ALHAMBRA, CA 91802

MAKE CHECK PAYABLE TO: L.A. COUNTY DEPARTMENT OF PUBLIC WORKS

****
$166.50 *
* DUE DATE: 01/26/17 *
****

REFER ALL INQUIRES TO: L.A. COUNTY DEPARTMENT OF PUBLIC WORKS (626) 458-3517
* RETURN THIS PORTION WITH PAYMENT *

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

A1

Environmental Programs Division
P.O. Box 1460
Alhambra, CA 91802-1460

INDUSTRIAL WASTE DISPOSAL PERMIT CONDITIONS AND LIMITATIONS

PART A: ON-SITE DISPOSAL – PUBLIC SEWER

1. Disposal of industrial wastewater to the public sanitary sewer shall be limited to the flow indicated on the industrial waste disposal permit.

2. Pretreatment, monitoring and control facilities required under this permit shall consist of the system(s) indicated on the approved plans.

3. Industrial Wastewater shall at all times meet the effluent quality, indicated on the attached Part D, if applicable prior to discharge to the sanitary sewer system.

4. If applicable, the permittee shall submit periodic compliance reports, as indicated on the attached Part E and/or any self-monitoring or industrial wastewater treatment surcharge reports which may be required by the County Sanitation Districts of Los Angeles County. **Note: Self-monitoring reports required by the Sanitation Districts are to be submitted directly to the Sanitation Districts.**

5. All required industrial wastewater collection, pretreatment, monitoring, disposal and sampling facilities must be installed in accordance with approved plans prior to initiating any discharge to the sewer.

6. Dilution prohibited as substitute for treatment. Except where expressly authorized to do so by an applicable Pretreatment Standard or Requirement, no Industrial User shall ever increase the use of process water, or in any other way attempt to dilute a Discharge as a partial or complete substitute for adequate treatment to achieve compliance with a Pretreatment Standard or Requirement. The Control Authority may impose mass limitations on Industrial Users which are using dilution to meet applicable Pretreatment Standards or Requirements, or in other cases where the imposition of mass limitations is appropriate. 40 CFR 403.6(d)

PART A: ON-SITE DISPOSAL – PUBLIC SEWER (CONTINUED)

6. Discharge of any toxic, flammable, explosive, corrosive, radioactive or non-biodegradable substance to the sanitary sewer is prohibited except as provided in **Part A.3** above.

7. Discharge of uncontaminated cooling water, groundwater, storm water or surface drainage water to the sanitary sewer is prohibited except as specifically authorized by this permit.

8. Discharge of industrial wastewater to the sanitary sewer with temperatures exceeding 140° F is prohibited.

9. This permit is subjected to additional Conditions and Limitations attached:
Part B – Wastes Not Authorized for Discharge or Deposits in **Part A**
Part C – General Conditions and Limitations
Part D – Effluent Quality Limitations
Part E -- Self-monitoring and Reporting (if applicable)

10. Other:

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
INDUSTRIAL WASTE DISPOSAL PERMIT

B1

PART B: WASTES NOT AUTHORIZED FOR DISCHARGE OR DEPOSIT IN PART A

1. Industrial wastes not specifically authorized for on-site pretretement, storage, deposit, discharge, or disposal in Part A of this permit shall be stored in leak-proof containers within an area designated on plans approved by the Department of Public Works pending transport to a legal point of disposal.

2. The Permittee shall determine if industrial wastes stored pursuant to Part B.1 above are hazardous wastes as defined in the California Health and Safety Code, Chapter 6.5 and as determined by the California Administrative Code, Title 22, Division 4, Chapter 30 and shall manage such wastes as prescribed therein.

3. Hazardous wastes shall only be removed from the premises under a Uniform Hazardous Waste Manifest unless a variance from such documentation has been granted by the California Environmental Protection Agency (EPA) Department of Toxic Substances Control (Cal EPA). Generator copies of the Uniform Hazardous Waste Manifest shall be maintained by the Permittee for not less than three years or as directed by Cal EPA.

4. The Permittee shall maintain records of the sources, quantity, name and address of hauler, date hauled, and point of legal disposal for nonhazardous industrial wastes and wastes granted a Cal EPA variance as described in Part B.3 above. Such records shall be kept a minimum of three years. A legal point of disposal is defined as one for which waste discharge requirements have been prescribed by a California Regional Water Quality Control Board and which is in full compliance therewith or a facility authorized to receive such wastes by the jurisdiction(s) regulating the facility and is in full compliance with all permits, regulations, and requirements.

5. Discharge of industrial wastewater to a channel, stormdrain, stream, river, lake, ocean or other surface waters is prohibited unless authorized by a National Pollutant Discharge Elimination System (NPDES) permit issued by a California Regional Water Quality Control Board or the U.S. Environmental Protection Agency (EPA).

6. The Permittee shall immediately notify the County of Los Angeles Department of Public Works (LACDPW) at (626) 458-3517 and the Publicly Owned Treatment Works (POTW) of all discharges that could cause problems to the POTW including slug loading, spills, bypasses, upsets, etc. A follow-up written notification describing the discharge is required to be submitted within 5 days of the incident.

7. The Permittee shall conform to the discharge prohibitions outlined in 40CFR 403.5(a)(1) and 40CFR 403.5(b).

8. Bypass is prohibited unless it meets 40CFR 403.17. If Permitee knows in advance of the need for a bypass, Permitee shall submit prior notice to the LACDPW and the POTW, at least ten days before date of bypass 40CFR 403.17(c)(1). The Permitee shall notify the LACDPW and the POTW of an unauthorized bypass within 24 hours from the time the Permitee becomes aware of the bypass 40CFR 403.17(c)(2)

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
INDUSTRIAL WASTE DISPOSAL PERMIT

C1

PART C GENERAL CONDITIONS AND LIMITATIONS

1. A copy of this permit shall be maintained on the premises where it will be available at all times to operating personnel

2. Industrial waste pretreatment, storage and disposal operations shall be conducted in such a manner that no nuisances are created

3. The permittee shall allow representatives of interested governmental agencies concerned with the disposal of industrial waste access at any reasonable time to take samples, inspect operations and review any records required by this permit

4. The permittee shall secure written approval from this Department before making any additions or modifications which may affect the quantity, quality, or method of disposal of industrial waste materials. Requests or plans for additions or modifications to industrial waste treatment facilities or method of disposal of disposal shall be submitted for approval to the Department of Public Works, Environmental Programs Division, PO Box 1460, Alhambra, CA 91802-1460.

5. This permit is subject to suspension or revocation if conditions exist which would justify denial of a permit, if permittee fails to correct unsatisfactory conditions, if any of the Conditions and Limitations of this permit have been violated or if Annual Industrial Waste Inspection Fees where required are not paid within 90 days from date of notification.

6. The Director of Public Works may modify this permit by addition, revision, or elimination of conditions and limitations as may be necessary to accomplish the purpose of ordinances and laws covering disposal of waste materials.

7. The permit is valid only for the facility and location named thereon and is not transferable. In the event of any change of ownership, name or control of the industrial waste facilities subject to this permit, the permittee shall notify the Director of Public Works prior to the effective date of such change. Permittee shall also notify the succeeding owner or operator of this permit by providing a copy of this permit by letter, as well as carbon copy (cc) the Director of Public Works. A new owner shall make application for an Industrial Waste Disposal Permit within 30 days from the date of assuming control of any facility subject to this permit.

8. Facilities subject to this permit shall not be abandoned. Cancellation of this permit may only be authorized pursuant to Los Angeles County Code Section 20.36.220.

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
INDUSTRIAL WASTE DISPOSAL PERMIT

D1

PART D: EFFLUENT QUALITY LIMITATIONS - JOINT OUTFALL PERMIT

CONSTITUENTS	PHASE I CONTROL PERIOD LOCAL EFFLUENT LIMITS, mg/L*
Arsenic	3
Cadmium	15
Chromium (Total	10
Copper	15
Cyanide (Total)	10
Dissolved Sulfides	0.1
Lead	40
Mercury	2
Nickel	12
pH Range	Never lower than 6
Silver	5
Zinc	25
Floatable Oil & Grease	None visible
Temperature	140°F
Total Identifiable Chlorinated Hydrocarbons**	Essentially None

* Maximum concentration at any time

** Total Identifiable Chlorinated Hydrocarbons (TICH) comprise:

Aldrin and Dieldrin;
Endrin and Toxaphene
Chlordane (cis & trans), trans-nonachlor, oxychlordane, heptachlor, and heptachlor epoxide
DDT and derivatives: p,p', and o, p' isomers of DDT, DDD, and DDE
HCH: sum of α, β, γ, δ isomers of hexachlorocyclohexane
Polychlorinated biphenyls (PCB's)

003755 - 003882

RVI
CLSR

verizon

Verizon Environment Management

P.O. BOX 725
Chino CA 91780
Tel: (909) 620-5962
Fax: (909) 629-1080

Mail Code: CAA05HJ

RECEIVED
JUN 22 2009
DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS

June 19, 2009

Shaw Project No. 135823.01

County of Los Angeles Department of Public Works
Environmental Programs Division
P.O. Box 1460
Alhambra, California 91802-1460
Attn: Manny Regalado

R

RECEIVED
JUN 22 2009
DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS

2022 #615816

Subject: *Underground Storage Tank Removal Report*
Verizon Plant Yard – Irwindale Facility
~~*41207B*~~ A591016
5010 Azusa Canyon Road
Irwindale, California 91706

Dear Mr. Regalado:

Please find enclosed a copy of the Underground Storage Tank Removal Report prepared by Shaw Environmental, Inc. (Shaw) on behalf of Verizon at their above-referenced facility. Field activities performed by Shaw include arranging for the rinsing, transportation, and destruction of one 12,000-gallon gasoline UST and associated steel piping, and collection and analysis of soil and stockpile samples from the UST excavation.

The UST was removed on May 20, 2009. Following removal, the UST was observed to be in good condition, with no evidence of a gasoline release noted. Nine excavation soil samples and four discrete soil stockpile samples were collected. All of the soil samples were analyzed for the regulatory required analytical parameters, including total petroleum hydrocarbons as gasoline (TPH-G); total petroleum hydrocarbons as diesel (TPH-D); benzene, toluene, ethylbenzene and xylenes (BTEX); the fuel oxygenates methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), tertiary butyl alcohol (TBA), and tertiary-amyl methyl ether (TAME); and methanol and ethanol.

Based on the data contained in this report, the following are concluded:

A 0005 91016

The results of the laboratory analytical testing show that no VOCs, TPH- G, TPH-D, BTEX or MTBE were detected in the soil samples obtained from beneath the former UST and product pipe lines, or from the stockpiles.

Based on the information contained herein, Verizon hereby respectfully request that site closure be granted for the UST removal by the County of Los Angeles Department of Public Works.

If you have any questions regarding the information presented in the attached report, please contact either Masood Choudhury at 909.620.5962 or Jim Cirillo at 949.660.5317.

cc: Mr. Masood Choudhury - Verizon Environmental Management

Sincerely,

Shaw Environmental, Inc.

Jim Cirillo for
Rob Delnagro, P.G., C.E.M.
Project Manager
California Program Manager

UNDERGROUND STORAGE TANK REMOVAL REPORT
VERIZON - IRWINDALE Fleet Yard
GLC 071207B
5010 AZUSA CANYON ROAD
IRWINDALE, CALIFORNIA

Prepared for:

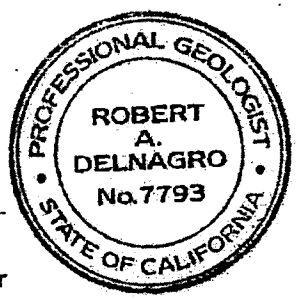
Verizon – Environment Management
280 South Locust Street, CAA05HJ
Pomona, California 91766

Prepared by:

Shaw Environmental, Inc.
3347 Michelson Drive, Suite 200
Irvine, California 92612

Jim Cirillo
Project Manager

Rob Delnagro P.G., C.E.M.
California Program Manager



Shaw Project No. 135823.01

June 2009

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C	Waste Manifest for Rinsate Disposal
D	Certificate of Destruction for the UST and Piping
E	Laboratory Reports and Chain-of-Custody Documents
F	South Coast AQMD Rule 1166 Mitigation Plan No. 498435 and Vapor Monitoring Logs
G	South Coast AQMD Rule 1166 Notification Form
H	Site Specific Monitoring Plan

1.0 Introduction

On behalf of Verizon – Environment Management, Shaw Environmental, Inc. (Shaw) was contracted to provide environmental consulting services during the removal of one 12,000-gallon gasoline underground storage tank (UST), associated piping and fuel pump from the Verizon – Irwindale Fleet Yard (Site) located at 5010 Azusa Canyon Road, Irwindale, California (Figure 1). UST removal work discussed in this report was completed in compliance with local and state regulatory requirements on May 20, 2009.

1.1 Site Description

The Site is located in a well developed setting of Irwindale, California, primarily comprised of industrial buildings mixed with multi-family residential properties. A single-story building housing a Verizon fleet fueling operations facility, a canopy covered fuel pump island and Verizon fleet vehicle parking lot occupy the majority of the site (Figure 2).

One 12,000-gallon double-wall steel unleaded gasoline UST used to fuel fleet vehicles was located to the south of the Verizon building. As Verizon decided to discontinue maintaining a UST at the site, the UST was scheduled for removal.

1.2 Permits

Prior to initiation of UST removal activities, Tait Environmental Services, Inc. (Tait), of Santa Ana, California completed a UST Application for Closure (issued on November 6, 2008) from the Los Angeles County Department of Public Works (DPW) Environmental Programs Division and was granted a permit, which authorized removal of the UST. The DPW Site File number is 3755-3882 and the closure permit number is 591016.

Before commencing with the tank removal activities, Shaw submitted a Rule 1166 Notification Form under Mitigation Plan Number 498435 and South Coast Air Quality Management District (SCAQMD) Identification Number 159709. Additionally, in advance of the removal activities, a representative of the Los Angeles County Fire Department (LACFD) was scheduled to observe UST removal activities. Copies of the permit application/removal permit, regulatory notification documentation, and State forms are included in Appendix A.

2.0 Tank Removal Field Activities

2.1 UST Removal

The Site is located within the SCAQMD and therefore was required to have in place an approved Various Locations Rule 1166 Contaminated Soil Mitigated Plan (Mitigation Plan). Prior to commencing work, Shaw applied for and received an approved Mitigation Plan from SCAQMD, number 498435. A copy of the Mitigation Plan is included in Appendix F.

As required by the Mitigation Plan, Shaw performed organic vapor monitoring during all excavation activities in accordance with applicable Rule 1166 monitoring requirements. Vapor monitoring logs are included in Appendix F.

On May 18, 2009, prior to removal of the UST, Tait removed the system's fuel pump and associated components. (While the dispensing hoses were completely flushed and removed, the fuel dispenser was left intact and will be removed at a later date by Tait.) Upon completion of these activities, Tait commenced with jack hammering the concrete overlying the UST, associated piping, and vent line trench, and excavating the soil fill material surrounding the UST. Digging and trenching activities continued through May 19, 2009. The removed fill material was placed on a plastic liner adjacent to the excavation. Photographic documentation of the UST removal activities is included in Appendix B.

On May 20, 2009, prior to removal, the UST was triple-rinsed by Nieto & Sons (Nieto) personnel using a fresh water/detergent mixture and a hot water pressure washer. Following rinsing, visual inspection of the UST revealed no residual sludge or liquid on the visible portions of the interior of the tank. Approximately 200 gallons of fuel and rinsate were removed from the UST using a vacuum truck. The rinsate and fuel were then transported for disposal, under manifest number 002152481-FLE to DeMenno Kerdoon in Compton, California. A copy of the hazardous waste manifest for the rinseate is included in Appendix C.

On May 20, 2009, under the oversight of LACFD Certified Industrial Hygienist (CIH) Ms. Nancy Carraway, Nieto secured the tank hoist straps and prepared the UST for removal. Ms. Carraway subsequently granted Nieto permission to remove the UST after they used a combustible gas indicator to measure the concentrations of flammable vapor and percent oxygen within the UST which were measured at below 1 percent and at 20.9 percent,

respectively. Additionally, Mr. Frank Garcia of LACFD was present to provide safety oversight.

The UST was removed using a crane. Following removal, the UST was inspected for signs of deterioration, holes, or leakage. The excavated tank was observed to be in good condition, without holes or cracks. According to the Hazardous Waste Tank Closure Certification completed by Ms. Carraway, no product, sludge, scale, rinsate or debris was observed within the UST. Subsequent to Ms. Carraway's visual inspection, the UST and associated piping were then transported by Nieto to Ecology Auto Parts in Santa Fe Springs, California. A copy of the manifest and certificate of destruction for the UST and piping are presented in Appendix D.

Mr. Garcia left the site after observing the successful removal of the UST from the excavation and it being secured to a flatbed truck for off-site transportation.

2.2 Soil Sampling Activities

Confirmation soil samples and soil stockpile samples were collected on May 20, 2009 in accordance with LACFD, DPW and California Regional Water Quality Control Board – Los Angeles Region (RWQCB-LA) soil sampling requirements. All soil samples were collected in clean, unused two-inch diameter stainless steel sleeves, capped, labeled, placed on ice in a cooler, and transported to the contract laboratory by Shaw personnel under appropriate chain-of-custody.

After collection, the soil samples were transported under strict chain-of-custody and submitted to Chemical & Environmental Laboratories, Inc. (C&E Laboratory), an Environmental Laboratory Accreditation Program (ELAP)-certified laboratory (ELAP number 2268) located in Santa Fe Springs, California. The excavation and stockpile soil samples were analyzed for the following analytes:

- Benzene, toluene, ethylbenzene and xylenes (BTEX), plus the fuel oxygenates methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), tertiary butyl alcohol (TBA), and tertiary-amyl methyl ether (TAME) using EPA Method 8260B
- Total petroleum hydrocarbons as diesel (TPH-D) using EPA Method 8015B Modified (carbon chain range C10 to C24)
- Total petroleum hydrocarbons as gasoline (TPH-G) using EPA Method 8015B Modified (carbon chain range C6 to C12)

- Methanol and ethanol using EPA Method 8015B Modified

Confirmation Sample Collection

The location of the former UST is identified on Figures 2 and 3. The location description of the confirmation samples collected following removal of the UST system are as follows:

- SS-01-2'; vent side floor, collected at 11:40
- SS-02-4', vent side floor, collected at 12:10
- SS-03-2'; fill side floor, collected at 12:47
- SS-04-4'; fill side floor, collected at 13:14
- SS-05-4'; east vent line trench floor, collected at 13:40
- SS-06-6'; east vent line trench floor, collected at 14:00
- SS-07-4'; west vent line trench floor, collected at 14:29
- SS-08-6'; west vent line trench floor, collected at 14:45
- SS-09-4'; adjacent to dispenser, collected at 15:00

All samples were collected on May 20, 2009. Two floor samples were collected from each end of the tank pit at approximately 2-feet and 4-feet below the surface of the excavation bottom. Additionally, two samples were collected from each end of the former vent line trench at approximately 4-feet and 6-feet below the floor of the excavated trench. Finally, a sample was obtained immediately adjacent and north of the dispenser at approximately 4-feet below surface grade (bsg).

Excavation samples SS-01-2', SS-02-4', SS-03-2', SS-04-4', SS-05-4', SS-06-6', SS-07-4', and SS-08-6' were collected by hand in stainless steel sleeves, directly from the excavation bucket. Excavation sample SS-09-4' was collected by pushing a stainless steel sleeve into soil exposed using a hand shovel. The locations and results for the excavation samples are shown on Figure 3.

Stockpile Sample Collection

The stockpiled soil was planned for use as excavation backfill, pending the review of analytical data and physical testing results. To characterize the stockpile, four discrete soil samples were collected and submitted for analysis on May 20, 2009. These samples were collected by pushing a stainless steel sleeve into soil from four locations along the stockpile perimeter. The locations and results for the stockpile soil samples, identified as SP-01

(collected at 15:20), SP-02 (collected at 15:30), SP-03 (collected at 15:40), and SP-04 (collected at 15:50) are shown on Figure 3.

2.3 Confirmation Soil Sample Results

No BTEX, TPH-G, TPH-D or fuel oxygenates were detected in the UST system confirmation soil samples. Soil sample analytical results are summarized in Table 1 and depicted on Figure 3. Copies of the laboratory reports are included in Appendix E.

2.4 Stockpile Soil Sample Results

No BTEX, TPH-G, TPH-D or fuel oxygenates were detected in the stockpile soil samples. Stockpile soil sample analytical results are summarized in Table 1 and depicted on Figure 3. Copies of the laboratory reports are included in Appendix E

3.0 Site Restoration

Review of the laboratory analytical results for the excavation and soil stockpile samples indicated that the stockpiled material was appropriate for use as backfill. Backfilling activities commenced on May 22, 2009; additional, site restoration activities were performed independent of Shaw oversight.

The fuel dispenser is securely stored on site and will be removed by Tait at a later date.

4.0 Conclusions

Based on the field observations and laboratory analytical data presented in this report, Shaw concludes the following:

- On May 20, 2009, one 12,000-gallon unleaded gasoline UST and associated steel piping were removed from the site.
- Groundwater was not encountered during tank removal activities.
- No sheen or other evidence of petroleum impact was noted on the in-situ soils or removed fill material.
- No BTEX, TPH-G, TPH-D or fuel oxygenates were detected in the excavation confirmation soil samples.
- No BTEX, TPH-D, TPH-G or fuel oxygenates were detected in the stockpile soil samples.
- Results of the laboratory analyses did not indicate a release of petroleum had occurred.
- The tank excavation was subsequently backfilled using the stockpiled soil and clean imported fill gravel.
- No further action is recommended for this site.

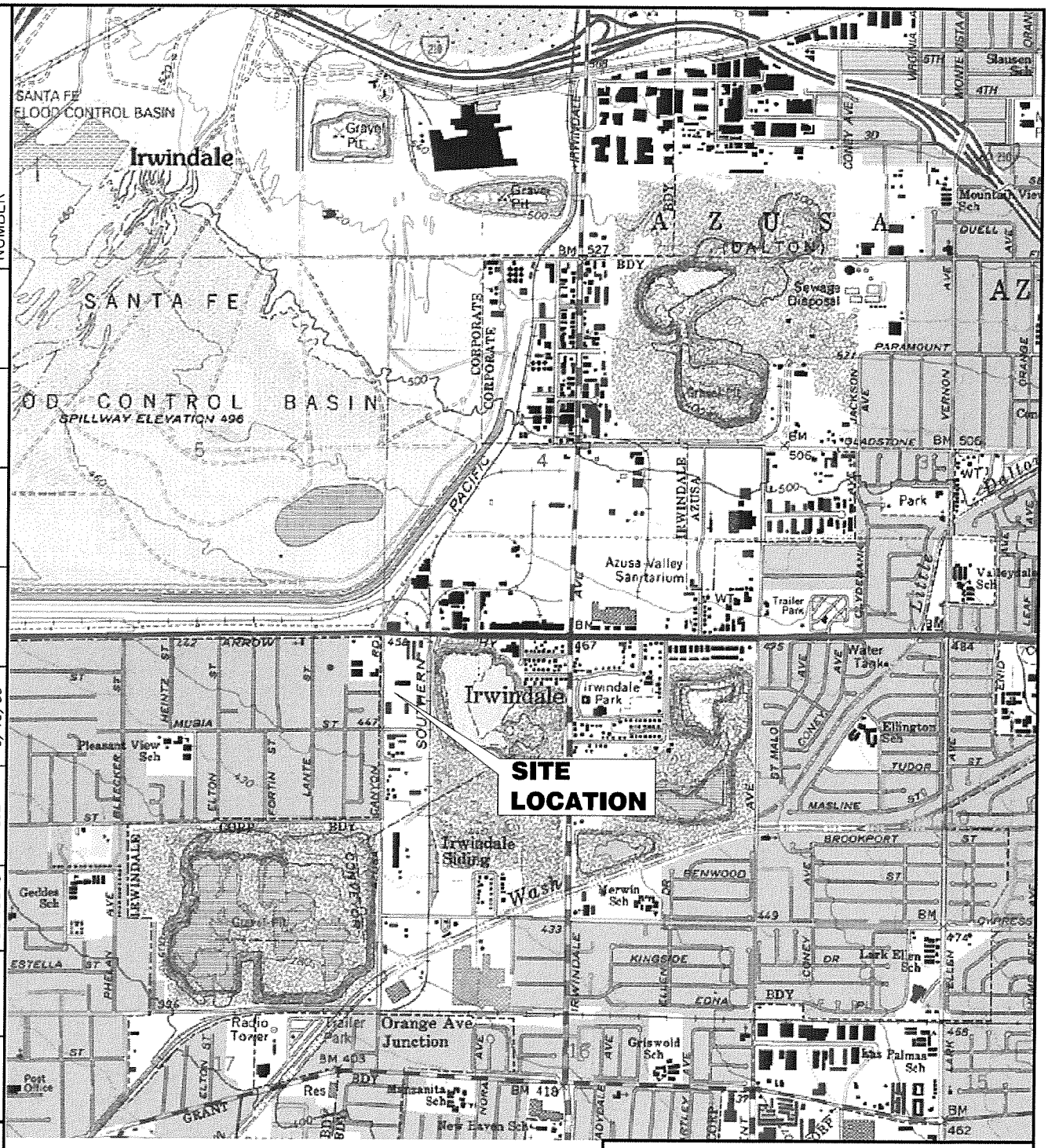
4.1 Reporting Requirements

One copy of this report will be forwarded to the following regulatory agency:

County of Los Angeles Department of Public Works
Environmental Programs Division
P.O. Box 1460
Alhambra, California 91802-1460
Attention: Manny Regalado

FIGURES

IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
--		Concord	SJZ 6/10/09			135823-A1



SCALE

0 2000 4000 FEET

REFERENCE: 7.5' USGS TOPOGRAPHIC QUADRANGLE OF: BALDWIN PARK CA. PHOTOREVISED 1981

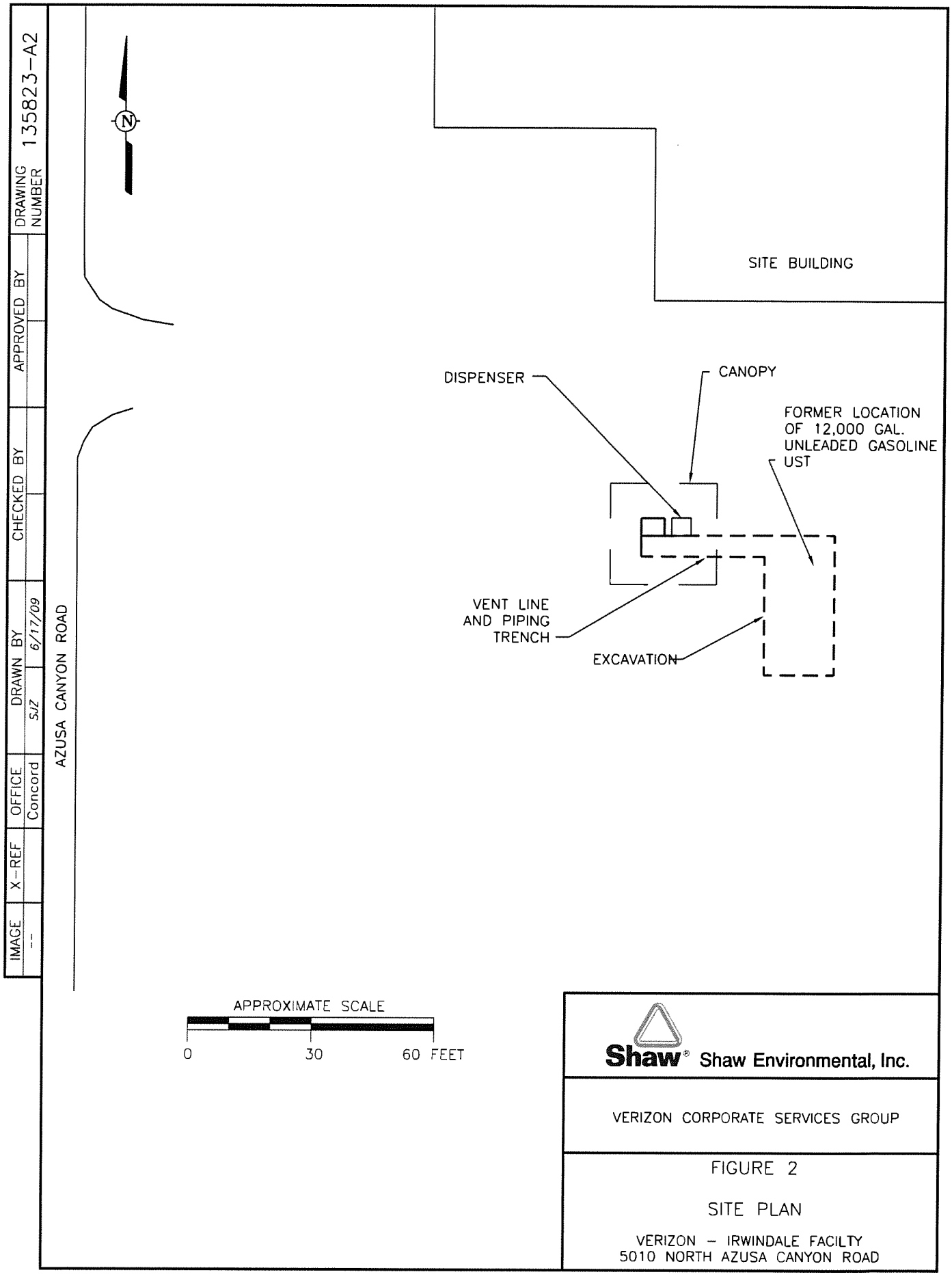
Shaw® Shaw Environmental, Inc.

VERIZON CORPORATE SERVICES GROUP

FIGURE 1

SITE VICINITY MAP

VERIZON – IRWINDALE FACILTY
5010 AZUSA CANYON ROAD



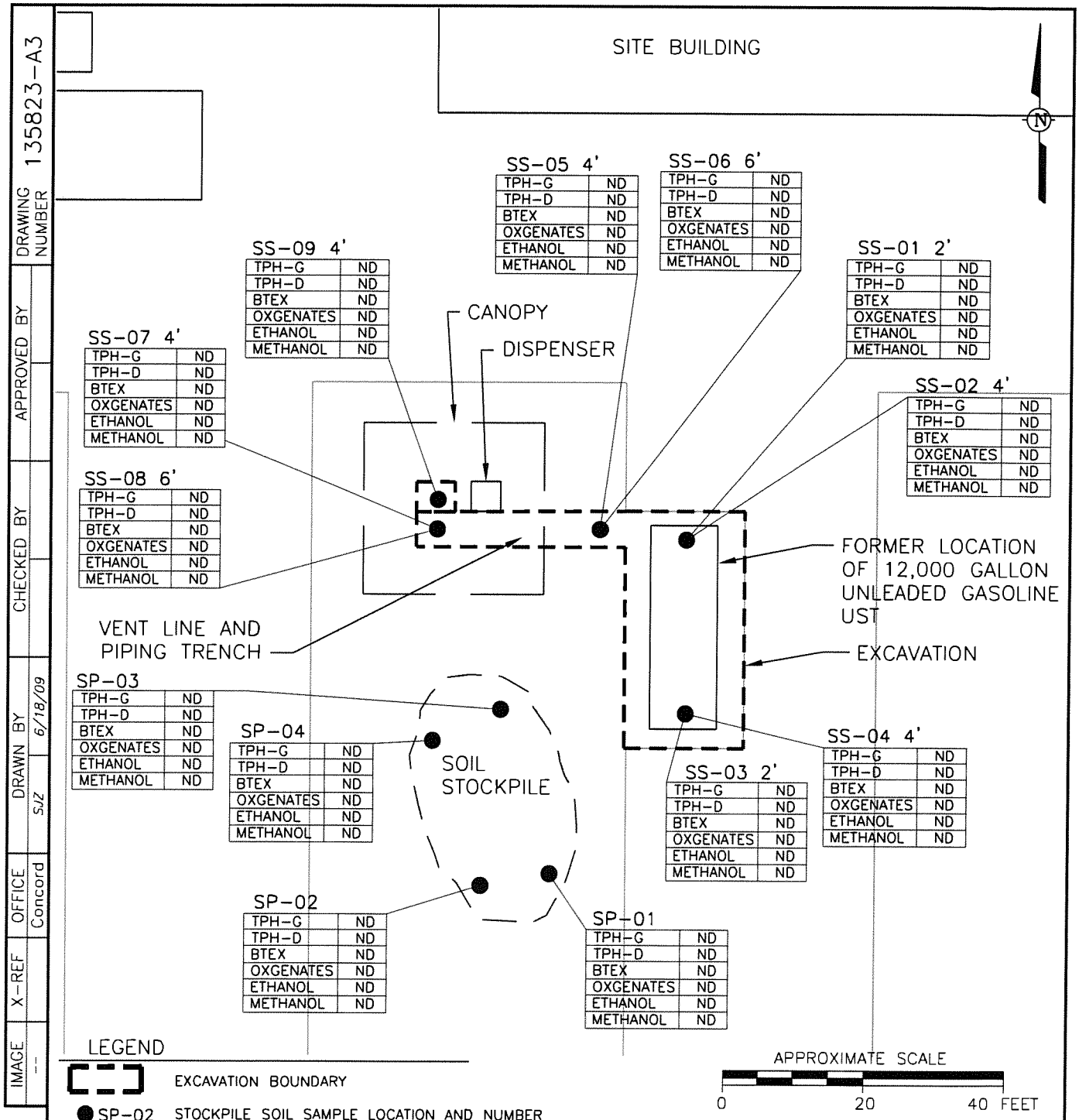
Shaw® Shaw Environmental, Inc.

VERIZON CORPORATE SERVICES GROUP

FIGURE 2

SITE PLAN

VERIZON – IRWINDALE FACILTY
5010 NORTH AZUSA CANYON ROAD


SITE BUILDING
N
SS-05 4'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SS-06 6'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SS-09 4'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SS-01 2'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
CANOPY
DISPENSER
SS-07 4'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SS-02 4'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SS-08 6'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
FORMER LOCATION OF 12,000 GALLON UNLEADED GASOLINE UST
VENT LINE AND PIPING TRENCH
EXCAVATION
SP-03
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SP-04
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SOIL STOCKPILE
SS-04 4'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SS-03 2'
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SP-02
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
SP-01
TPH-G ND
TPH-D ND
BTEX ND
OXGENATES ND
ETHANOL ND
METHANOL ND
LEGEND
EXCAVATION BOUNDARY
SP-02 STOCKPILE SOIL SAMPLE LOCATION AND NUMBER
SS-01 IN-SITU SOIL SAMPLE LOCATION AND NUMBER
4' SAMPLE DEPTH IN FEET BELOW EXCAVATION GRADE
ND NOT DETECTED
TPH-G TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (C6-C12)
TPH-D TOTAL PETROLEUM HYDROCARBONS AS DIESEL (C10-C24)
BTEX BENZENE, TOLUENE, ETHYL BENZENE, XYLENES (TOTAL)
OXGENATES METHYL TERTIARY BUTYL ETHER (MTBE), DI-ISOPROPYL ETHER (DIPE), ETHYL TERTIARY-BUTYL ETHER (ETBE), TERTIARY BUTYL ALCHOHOL (TBA), AND TERTIARY-AMYL METHYL ETHER (TAME)
UST UNDERGROUND STORAGE TANK
ALL RESULTS REPORTED IN MILLIGRAMS PER KILOGRAM OR PARTS PER MILLION
APPROXIMATE SCALE
0 20 40 FEET
Shaw Shaw Environmental, Inc.
VERIZON CORPORATE SERVICES GROUP
FIGURE 3
SOIL SAMPLE ANALYTICAL RESULTS
(MAY 20, 2009)
VERIZON - IRWINDALE FACILTY
5010 AZUSA CANYON ROAD
DRAWING NUMBER 135823-A3
APPROVED BY
CHECKED BY
DRAWN BY SJZ 6/18/09
OFFICE Concord
X-REF
IMAGE --

Appendix A
Tank Removal Permit and Forms

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION

CLOSURE REPORT REQUIREMENTS

A closure report shall be submitted to the County of Los Angeles Department of Public Works, Environmental Programs Division, P.O. Box 1460, Alhambra, California 91802-1460, containing:

1. File number of facility and closure permit number.
2. Plot plan to scale showing locations of tanks, sampling points, buildings, adjacent streets, and north arrow.
3. Description of methods for obtaining, handling, and transporting samples.
4. Time and date samples were obtained.
5. Soil sampling certification (including but not limited to soils classification, boring logs, sample procedures, sample locations, initiating chain-of-custody, and groundwater location) for UST closure shall be certified by a California registered geologist, a California certified engineering geologist, or a California registered civil engineer with sufficient experience in soils. The certification must clearly state that all work was performed under the supervision of the person signing.
6. Chain-of-custody documentation initiated by person obtaining sample through person at a California Department of Health Services certified laboratory.
7. Disposal destination of tanks and evidence of legal disposal.
8. Analysis results by a State certified laboratory submitted on laboratory letterhead showing analysis date; methods of extraction, and methods of analysis.
9. Documentation as to depth of groundwater at facility.
10. Manifests to document hazardous waste disposal of any removed soil and tank rinsate.
11. Evidence of legal disposal of soils designated as nonhazardous.
12. Any observations of site contamination.
13. Remedial action plan to mitigate contamination.
14. Report to be signed by a California registered geologist, a California certified engineering geologist, or a California registered civil engineer with sufficient experience in soils.

Print Name Christina Meza

Signature Christina Meza Date 11/6/08

STATE OF CALIFORNIA
California Regional Water Quality Control Board
Los Angeles Region
(Underground Storage Tank Program)

General Laboratory Testing Requirements for Petroleum Hydrocarbon Impacted Sites

The purpose of this document is to supplement the Regional Board's Laboratory Report Form (6/00) in order to update obsolete testing requirements and set forth the new requirements for fuel oxygenates and natural attenuation testing. Each analytical method used must be certified by the California Environmental Accreditation Laboratory Program (ELAP).

1. General Laboratory QA/QC Requirements
Conform to the Regional Board's Laboratory Report Form (6/00) in general, except for items specified below.

2. Compounds to be Tested
Total petroleum hydrocarbons in gasoline range (TPHg) (C4 – C12); Total petroleum hydrocarbons in diesel range (TPHd) (C13 – C22); benzene, toluene, ethylbenzene, xylenes (BTEX); methyl tertiary butyl ether (MTBE); di-isopropyl ether (DIPE); ethyl tertiary butyl ether (ETBE); tertiary amyl methyl ether (TAME); tertiary butyl alcohol (TBA). If the gasoline tanks historically or currently contain methanol or ethanol, these compounds are also to be tested.

3. Analytical Test Methods and Detection Limits
Conform to Table 1 below. Report any concentration detected between the method detection limit (MDL) and estimated quantitation limit (EQL) (or reporting limit (RL)) in a numerical value with a "J" flag indicator. All "Non-Detect" (ND) shall be reported in the format with "< (numerical MDL)." Integrate all fuel oxygenate additive concentrations into total petroleum hydrocarbons (TPH) and report it as TPH. EPA Method 8021B may be used to substitute EPA Method 8260B at the sites where all fuel oxygenates have not been identified by EPA Method 8260B in soil and/or groundwater.

Table 1: Analytical Requirements

		Required MDL (Method detection limit)	
Analyte	Analytical Method	Soil (µg/kg)	Water (µg/L)
BTEX	EPA Method 8260B(8021B)	1	0.5
MTBE	EPA Method 8260B	2	1
DIPE	EPA Method 8260B	2	1
ETBE	EPA Method 8260B	2	1
TAME	EPA Method 8260B	2	1
TBA	EPA Method 8260B	20	10
TPHg	Cal-LUFT GC/FID or GC/MS	100-200	50-100
TPHd	Cal-LUFT GC/FID	1000	500
Methanol	Cal-LUFT GC/FID	1000	500
Ethanol	Cal-LUFT GC/FID(EPA8260B)	500	250

ATTENTION CONTRACTOR

NOTIFICATION/PERMIT REQUIREMENTS

The Closure Authorization is issued subject to compliance with all applicable laws and regulations relating to the performance of work including, but not limited to, business license requirements, Building Codes, Fire Codes, Air Quality regulations, Health and Safety Codes, Water Codes, and Transportation regulations.

Pursuant to Los Angeles County Code, Section 11.78.045, and the Conditions and Limitations of the attached Hazardous Materials Underground Storage Closure Authorization, you are required to complete **ALL** of the following agency notifications indicated below within the time period specified prior to commencement of work on this closure.

[X] 72 HOURS – DEPARTMENT OF PUBLIC WORKS WASTE CONTROL ENGINEERING INSPECTOR:

>>>Unless otherwise noted, Public Works' inspectors are available at the following offices, Monday through Friday, between 8 a.m. and 9:30 a.m. **ONLY**.<<<

[ ] WHITTIER DISTRICT – (562) 906-8426
13523 East Telegraph Road, Whittier, CA 90605-3437

[ ] CENTINELA VALLEY REGION – (310) 534-4862
24320 South Narbonne Avenue, Lomita, CA 90717-1194

[ ] LENNOX DISTRICT – (310) 534-4862
24320 South Narbonne Avenue, Lomita, CA 90717-1194

[✓] SAN GABRIEL VALLEY DISTRICT – (626) 574-0962
125 South Baldwin Avenue, Arcadia, CA 91007-2652

[ ] SAN DIMAS REGION – (626) 574-0962
125 South Baldwin Avenue, Arcadia, CA 91007-2652

[ ] EAST LOS ANGELES DISTRICT – (323) 881-7031
4801 East 3rd Street, Los Angeles, CA 90022-3601

[ ] CITY OF COMMERCE – (323) 887-4456
2535 Commerce Way, Commerce, CA 90040-1487

[ ] NEWHALL REGION – (661) 222-2953
23757 West Valencia Boulevard, Santa Clarita, CA 91355-2192

[X] 48 HOURS (OR AS REQUIRED) – LOCAL FIRE DEPARTMENT FIRE PREVENTION INSPECTOR:

[ ] City of _____
[✓] Los Angeles County Fire Department (626) 969-7876

[X] 24 HOURS – SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Telephone: (909) 396-2326
Fax: (909) 396-3342

[✓] COUNTY SERVES AS BUILDING OFFICIAL, SEE ATTACHED.

[ ] CITY SERVES AS BUILDING OFFICIAL.

FAILURE TO PROVIDE NOTICE AS REQUIRED ABOVE MAY RESULT IN PERMIT REVOCATION. ADDITIONAL SITE ASSESSMENT REQUIREMENTS, AND/OR ADMINISTRATIVE PENALTIES AS PROVIDED BY LAW.

DIRECTORY OF THE COUNTY OF LOS ANGELES AND CONTRACT CITY BUILDING AND SAFETY OFFICES

Unless specifically indicated, all field offices are open 8 a.m. to 4:30 p.m., Monday through Friday, except legal Holidays

CENTRAL OFFICE

900 South Fremont Avenue, 3rd Floor
Alhambra, CA 91803
Monday through Thursday - 7 a.m. to 5 p.m. (Closed Fridays)

PHONE NUMBERS

Building Plan Check Section	(626) 458-3173
Electrical Section	(626) 458-3180
Mechanical/Plumbing Section	(626) 458-3182
Management and Field Support Section	(626) 458-3188
Building Rehabilitation Section	(626) 458-3193
Research/Structural Section	(626) 458-3187
Grading and Drainage Section	(626) 458-6380

FAX NUMBERS

Admin	(626) 979-5444
Building Plan Check	(626) 979-5376
Electrical/Mechanical	(626) 458-2861
Property Rehabilitation	(626) 979-5433
Management/Fld Support	(626) 458-5350

COUNTY DISTRICT OFFICES

Bill Nuckolls
06.00+ ANTELOPE VALLEY #6-499⇨
335A East Avenue K-6
Lancaster, CA 93535
(661) 723-4440
FAX (661) 723-4435
Direct (661) 723-4425

Sohaila Kalhor
09.10+ CALABASAS/MALIBU #6-661⇨
4111 North Las Virgenes Road
Calabasas, CA 91302
(818) 880-4150
FAX (818) 880-6279
Direct (818) 880-6292

Gary Nehrenberg
13.00+ CARSON (M-Th 7-6) #6-242⇨
701 East Carson Street (Closed Friday)
Carson, CA 90745
(310) 830-7600
FAX (310) 549-0652
No Direct Line

Joseph Gonzales
06.00+ EAST LOS ANGELES #6-027⇨
5119 East Beverly Boulevard
Los Angeles, CA 90022
(323) 260-3450
FAX (323) 267-4422
Direct (323) 260-3465

Don Gwaltney
01.00+ FIRESTONE #6-126⇨
7807 South Compton Avenue
Los Angeles, CA 90001
(323) 586-6541
FAX (323) 586-6526
Direct (323) 586-6540

Peter Wang
02.00+ LA PUENTE #6-686⇨
16005 East Central Avenue
La Puente, CA 91744
(626) 961-9611
FAX (626) 961-8166
Direct (626) 333-0877

Ed Acosta
12.00+ LOMITA/LENNOX #6-110⇨
24320 South Narbonne Avenue
Lomita, CA 90717
(310) 534-3760
FAX (310) 530-5482
Direct (310) 534-1570

Mazen Dudar
05.00+ SAN GABRIEL VALLEY #6-615⇨
125 South Baldwin Avenue
Arcadia, CA 91007
(626) 574-0941
FAX (626) 446-4425
Direct (626) 574-0945

Richard Bagby
08.20+ SANTA CLARITA #6-470⇨
23757 Valencia Boulevard
Valencia, CA 91355
(661) 222-2940
FAX (661) 222-2947
Direct (661) 253-7202

Frank Harris
04.00+ SOUTH WHITTIER #6-249⇨
13523 Telegraph Road
Whittier, CA 90605
(562) 946-1390
FAX (562) 906-8425
Direct (562) 906-8431

Mark Young (Uninc. area only)
09.30+ UNIVERSAL #6-016⇨
100 Universal City Plaza - MT85 (Trailer)
Universal City, CA 91608
(818) 762-6284
FAX (818) 623-9829
Direct (818) 762-6360

CONTRACT CITY OFFICES

Jim Shih
04.09+ ARTESIA (8-10) #6-281⇨
18747 Clarkdale Avenue
Artesia, CA 90701
(562) 865-6263
FAX (562) 865-6240

Gary Nehrenberg
12.05+ CARSON (M-Th 7-6) #6-242⇨
701 East Carson Street (Closed Friday)
Carson, CA 90745
(310) 830-7600
FAX (310) 513-6243

Jim Shih
04.02+ CERRITOS (8-5) #6-258⇨
18125 Bloomfield Avenue
Cerritos, CA 90703
(562) 860-0311
FAX (562) 916-1371

Joseph Gonzales
06.01+ COMMERCE #6-180⇨
2535 Commerce Way
Commerce, CA 90040
(323) 887-4455
FAX (323) 838-4240

Mazen Dudar
05.09+ DUARTE (M-Th 7:30-6) #6-138⇨
1600 Huntington Drive (Closed Friday)
Duarte, CA 91010
(626) 357-7931
FAX (626) 358-0018

Peter Wang
02.03+ INDUSTRY #6-686⇨
16005 East Central Avenue
La Puente, CA 91744
(626) 961-9611
FAX (626) 961-8166

Mazen Dudar
05.06+ IRWINDALE (M-Th 7-12) #6-687⇨
5050 North Irwindale Avenue (Closed Friday)
Irwindale, CA 91706
(626) 430-2200
FAX (626) 962-2078

Mazen Dudar
03.01+ LA CANADA FLINTRIDGE (8-10) #6-637⇨
1327 Foothill Boulevard
La Canada Flintridge, CA 91011
(818) 790-8851
FAX (818) 790-7536

Jim Shih
04.01+ LAKEWOOD (M-Th, Alt F - 7-5:30) #6-234⇨
5050 North Clarke Avenue (Closed Alt. Fridays)
Lakewood, CA 90712
(562) 866-9771
FAX (562) 866-0505

Frank Harris
04.08+ LA MIRADA (M-F 8-10, M-T - 4-5:30) #6-287⇨
13700 South La Mirada Boulevard
La Mirada, CA 90638
(562) 943-0131
FAX (562) 943-3665

Ed Acosta
07.01+ LAWNDALE (7:30-11:30) #6-231⇨
14717 South Burin Avenue
Lawndale, CA 90260
(310) 970-2100
FAX (310) 644-4556

Ed Acosta
12.04+ LOMITA #6-110⇨
24320 South Narbonne Avenue
Lomita, CA 90717
(310) 534-3760
FAX (310) 530-5482

Ed Acosta
12.02+ ROLLING HILLS #6-110⇨
24320 South Narbonne Avenue
Lomita, CA 90717
(310) 534-3760
FAX (562) 530-5480

Ed Acosta
12.03+ ROLLING HILLS ESTATES #6-110⇨
24320 South Narbonne Avenue
Lomita, CA 90717
(310) 534-3760
FAX (310) 530-5482

Jim Shih
04.05+ SANTA FE SPRINGS (8-4) #6-262⇨
11710 East Telegraph Road
Santa Fe Springs, CA 90670
(562) 868-0511
FAX (562) 868-7112

Mazen Dudar
05.08+ TEMPLE CITY (8-12) #6-038⇨
9701 Las Tunas Drive
Temple City, CA 91780
(626) 285-0486
FAX (626) 285-6182

Sohaila Kalhor
09.02+ WESTLAKE VILLAGE #6-661⇨
4111 North Las Virgenes Road
Calabasas, CA 91302
(818) 880-4150
FAX (818) 880-6279

'Inspector's office hours are 8-9 a.m. daily
+Office number
⇨Speed dial number

DO NOT GIVE DIRECT NUMBERS TO THE PUBLIC

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION

ADDITIONAL CONDITIONS FOR UST CLOSURE/SITE ASSESSMENT

TITLE 23: CALIFORNIA CODE OF REGULATIONS - WATERS
DIVISION 3: STATE WATER RESOURCES CONTROL BOARD (SWRCB)
CHAPTER 30: ELECTRONIC SUBMITTAL OF INFORMATION

Article 1 – GENERAL PROVISIONS

Section 3890. General Intent, Content, and Applicability of Regulations

(a) The regulations in this Chapter are intended to provide electronic access to reports, including soil, vapor, and water data, prepared for the purpose of subsurface investigation or remediation of: (1) an unauthorized discharge or deposit of waste as defined in section 13050 of the Water Code, (2) an unauthorized release of a hazardous substance as defined in section 25281 of the Health and Safety Code, or (3) a discharge of waste to land subject to Division 2 of Title 27 or Division 3, Chapter 15, of Title 23 of the California Code of Regulations (CCR).

(b) The regulations in this Chapter require persons responsible for submitting certain reports to the State Board, a regional board, or a local agency to submit these reports electronically over the Internet to the State Board's Geotracker system.

(c) The requirements of this Chapter are in addition to, and not superseded by, any other applicable reporting requirements.

(d) Except as provided in Section 3895(b), the electronic reporting requirements of this Chapter are intended to replace requirements for the submittal of paper copies of reports, beginning July 1, 2005.

Authority cited: Sections 13196 and 13198(c), Water Code.
Reference: Sections 13196 and 13198, Water Code.

Article 2. - ELECTRONIC SUBMITTAL OF INFORMATION

Section 3891. Definition of Terms

"COELT" is the United States Army Corps of Engineers Loading Tool program. It is a relational database application that is designed to run with the Microsoft Windows operating system. COELT places laboratory data into the standardized Electronic Deliverable Format (EDF). The program can accept data from Laboratory Information Management System (LIMS) or manually entered data. COELT is an optional software application that is intended to help laboratories that require new software to produce the EDF data deliverable. COELT includes a report utility that allows hard copy laboratory reports to be printed that match the actual electronic data. For purposes of the requirements of this chapter, version 1.2a of COELT may be used. The program (coelt12i.exe) and documents (coelt 1.2i manual.zip) for version 1.2i of COELT are available through links provided at http://www.waterboards.ca.gov/ust "CSRS-H" is the California Spatial Reference System-Horizontal, which includes the High Precision Geodetic Network (HPGN), the High Precision Geodetic Network–Densification (HPGN-D) and other geodetic control positions. These control positions have been determined by Global Positioning System survey methods in accordance with first order or better standards and specifications from the Federal Geodetic Control Subcommittee (FGCS) of the Federal Geographic Data Committee. These control positions are published by the National Geodetic Survey, California Spatial Reference Center or its successor.

Section 3892. Reports

The following reports are subject to the requirements of this Chapter, when those reports are required for the purpose of subsurface investigation or remediation of: (1) an unauthorized discharge or deposit of waste as defined in section 13050 of the Water Code, (2) an unauthorized release of a hazardous substance as defined in section 25281 of the Health and Safety Code, or (3) a discharge of waste to land subject to Division 2 of Title 27 or Division 3, Chapter 15 of Title 23 of the California Code of Regulations (CCR).

(a) Reports submitted pursuant to Division 3, Chapter 16, Article 11 of Title 23 of the CCR.

(b) Reports submitted pursuant to Division 2 of Title 27 or Division 3, Chapter 15 of Title 23 of the CCR.

(c) Reports submitted pursuant to section 13304 of the Water Code.

(d) Reports submitted pursuant to section 13267 of the Water Code.

(e) Reports submitted pursuant to any order or directive of the State Board, a regional board or a local agency.

(f) Reports submitted pursuant to the Two-year Joint Cooperative Agreement Execution Plans under the Defense / State Memorandum of Agreement and Navy Cost Recovery Cooperative Agreement, for the State of California.

Authority cited: Sections 13196 and 13198 (c), Water Code.

Reference: Sections 13196 (a) and 13198 (c), Water Code.

Section 3893. Electronic Submittal of Reports

(a) Persons responsible for submitting reports pursuant to this Chapter shall submit the following information described in subdivision (b) electronically over the Internet to the State Board's Geotracker system in conformance with data dictionaries found in Title 27, Division 3, Subdivision 2 (Monitoring and Release Information) and specifications contained in the State Water Resources Control Board EDF Guidelines and Restrictions (version 1.2i) and Survey XYZ Guidelines and Restrictions (Version 6). These data dictionaries and documents are available through links provided at http://www.waterboards.ca.gov/ust.

(b) Data generated after the effective date of the regulations by chemical analysis of soil, vapor, or water samples (including surface water, groundwater and influent/effluent water samples from remediation systems), shall be submitted in EDF format. All data submitted in EDF format shall be checked for errors prior to and during submittal using the EDCC software consistency-checking tool. All data submitted in EDF format must pass this error-checking tool as well as meet normal regulatory requirements in order to be considered valid data. In addition, when required for reports subject to this Chapter, the following shall also be submitted electronically:

(1) The latitude and longitude of any permanent monitoring well for which data is reported in EDF format, accurate to within 1 meter and referenced to a minimum of two reference points from the California Spatial Reference System (CSRS-H), if available.

(2) The surveyed elevation relative to a geodetic datum of any permanent monitoring well.

(3) The elevation of groundwater in any permanent monitoring well relative to the surveyed elevation.

(4) A site map or maps showing the location of all sampling points referred to in the report.

(5) The depth to the screened interval and the length of screened interval for any permanent monitoring well.

(6) Boring logs, in PDF format.

(7) A complete copy of the report, in PDF format, which includes the signed transmittal letter and professional certification.

(c) All deadlines and timeframes for submittals of reports are applicable to the information submitted electronically pursuant to this Chapter.

Authority cited: Sections 13196 and 13198 (c), Water Code.

Reference: Sections 13196 and13198 (c), Water Code.

CLOSURE APPLICATION SUPPLEMENT
HAZARDOUS MATERIALS UNDERGROUND STORAGE
LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION
900 S. FREMONT AVENUE
ALHAMBRA, CA 91803

PART 1 OF 3

DPW USE ONLY:
SITE-FILE NO. 3755 - 3882
APPLICATION NO. 591016

To satisfy the permanent closure requirements for underground storage tanks storing hazardous materials, site integrity must be demonstrated by the analysis of soil samples and, if applicable, groundwater samples as outlined below. These requirements are in addition to the conditions listed on the Application for Closure or contained in an approved Closure Plan.

***** Soil sampling will be required for Vent and Vapor Recovery piping for UST systems installed after July 1, 2003. *****

1. Samples shall be obtained at the sampling points (SP) indicated on the attached plot plan.

2. For each SP, samples shall be obtained at the following depths:

SP	Depth(s)	Compounds	Analysis Method
1A, 1B	2'-4' below tank invert	TPHg	~~SITE CLOSE~~ 8015M
		BTEX, MTBE, fuel oxygenates	8260B
		Ethanol	8260B
(pipe)	Sample along the pipe run at every 50' interval, 2'-4' below pipes, start @ dispensers	same as above	same as above
(dispensers)	2'-4' below each dispenser	same as above	same as above

Apply EPA Method 5035 for all soil sample collection, preparation, and preservation in order to minimize VOC losses.

Continued on Page 2

5. All soil/groundwater samples shall be analyzed by a laboratory approved by the California Environmental Accreditation Laboratory Program (ELAP).

6. Analytical results shall be reported on laboratory letterhead and shall include the following information: a) The date the analysis was conducted; b) The method of extraction (if applicable); c) Detection limits for each analytical procedure and determination; d) The method of analysis; e) Signature of chemist certifying results.

7. All soil/groundwater samples obtained shall be handled and transported to laboratory in strict accordance with applicable EPA regulations utilizing chain-of-custody procedures. Chain-of-custody documentation shall be included in the final report.

8. If the soil/groundwater analysis indicates undefined contamination at the facility, additional sampling shall be required to define the vertical and lateral extent present.

9. If groundwater is encountered during sampling, a groundwater monitoring well shall be established at the most downgradient sampling point. The well shall be developed by removing a minimum of four well volumes and a groundwater sample shall be obtained and analyzed.

10. A final report that contains all of the above required information shall be submitted to the office above within one (1) month form the sampling date or 180 days from the date of this permit, whichever is earlier.

11. All electronic data shall be submitted to the State Water Resources Control Board Geotracker database.

CLOSURE – UNDERGROUND STORAGE TANKS

CONDITIONS A – GENERAL

1. Closures shall be carried out such that all applicable regulations from the following agencies are complied with: Los Angeles County, Department of County Engineer – Facilities; Los Angeles County Fire Department, Fire Prevention Division or the appropriate City Fire Department; South Coast Air Quality Management District; and Los Angeles County Department of Health Services.

2. The County Engineer and Fire Departments shall be notified in advance of any closure in accordance with the following:

   a. Removal of tank shall require a three (3)-business day advance notification.
   b. Permanent closure of a tank in place or a temporary closure shall require a 30-written notification.

3. Consult current fee schedule for costs.

4. All abandoned wells shall be destroyed in such a way that they will not produce water or act as a channel for interchange of water, when such interchange may result in deterioration of the quality of water in any or all water bearing formations penetrated, or present a hazard to the safety and well-being of people and animals.

5. A well destruction permit issued by the Los Angeles Department of Health Services shall be required for all wells requiring a permit for their initial construction.

6. Well destruction shall be accomplished according to methods described in the latest "Water Well Standards: State of California" by the Department of Water Resources, contained in Bulletin 74 – 81, December 1981, or any other methods that will provide equivalent or better protection.

7. Plans for the decontamination of a facility shall be submitted to the County Engineer for approval no later than 30 days before the commencement of such operations. Other agencies having jurisdiction shall also be notified. These agencies the California Regional Water Quality Board, the Los Angeles County Department of Health Services, and the South Coast Air Quality Management District.

8. Decontamination shall require the following, as a minimum:

   a. Cleaning operation shall be done under the supervision of persons who understand the hazardous potential of the original liquid stored and its components.
   b. The personnel shall be sufficiently skilled to safely carry out such operation.
   c. Contaminated materials removed from such facility shall be disposed of at legal point of discharge.
   d. The operation shall be carried out in a manner that will not endanger the health of the public and the environment.

CONDITIONS B – TEMPORARY

1. All temporary closures shall be carried out as indicated in Los Angeles County Fire Department, Fire Prevention Division, Supplement #A – Inspection Guide #6, "Abandonment or Removal of Underground Tanks, "Part A and any other applicable Parts.

2. A temporary closure shall not exceed 180 days.

CONDITION C – PERMANENT TANK (S) REMOVAL

1. All tank removals shall be carried out as indicated in Los Angeles County Fire Department, Fire Prevention Division, Supplement #A – Inspection Guide #6, Part D and any other applicable Parts.

2. Owners/operators shall notify the Building Department having jurisdiction at the place of removal if a grading permit is necessary.

3. Removed tanks shall not be transported away from the site until an inspection to establish site integrity is carried by the County Engineer.

4. If an appointment has been arranged with a County Engineer Inspector to inspect the removal of a tank, the inspector will only wait at the site a reasonable amount of time (approximately one hour) after arriving for the removal to commence. Another closure fee may be charged if the inspector has to return to the site.

5. After inspection, tank shall be transported to a legal disposal point.

6. If the tank has stored materials other than motor fuel, fuel oil or waste oil, site integrity shall be demonstrated using the soil sampling and analysis procedures described in CONDITIONS D below.

7. The site shall be filled and re-compacted to a relative compaction of 90%.

CONDITIONS D – PERMANENT

1. All permanent closures of tanks in place shall comply with Los Angeles County Fire Department, Fire Prevention Division, Supplement #A – Inspection Guide #6, Parts B or C, and any other applicable Parts.

2. Owners/operators shall demonstrate part site integrity as follows:

   a. Test borings shall be slant drilled to intercept a point beneath the center of the tank, if possible. If slant drilling is not feasible, the test boring may be drilled vertically and the reason stated in the report in 2.h. below.
   b. For single tanks, a minimum of two test borings will be required, each located on opposite sides of the tank along the major axis of the tank.
   c. For multiple tanks, as a minimum, boring shall be placed at 20-foot intervals around the tank cluster. The actual number and location of borings shall be evaluated on a case-by-case basis. Tanks separated by 20 feet or more shall be considered single tanks for the purposes of test location and placement.
   d. Soil samples shall be taken at depths of 5, 10, 20, 30 and 40 feet below grade level.
   e. A Shelby Tube or a Modified California Sampler shall be utilized for taking all soil samples.
   f. Soil samples shall not be extruded in the field but are to be immediately placed in a refrigerated ice chest and transported to a state certified laboratory for analysis, using suitable methods.
   g. A report containing the results of the above analysis shall be submitted to the County Engineer.

3. If the soil analysis in 2. above indicates the presence of contaminants, the County Engineer shall require a site investigation as described in Chapter V of the County's "Underground Storage of Hazardous Materials – Guidelines."

4. A report shall be submitted to the County Engineer containing the results of the site investigation.

NOTICE TO CLOSURE PERMIT APPLICANTS

The South Coast Air Quality Management District (SCAQMD) has adopted Rule 1166 regulating emissions of Volatile Organic Compounds (VOC) from decontamination of soil effective **August 5, 1988.**

In addition to the requirements of your Closure Permit, persons excavating any underground storage tank that previously contained VOCs must:

- Notify the SCAQMD by telephone at (909) 396-2326 or by fax at (909) 396-3342 using the SCAQMD notification form 24 hours prior to tank excavation. 1166(c)(1)(A)
- Monitor the excavated material during the excavation for VOC contamination. 1166(c)(1)(B)
- When VOC contamination is detected:
  - Cease excavation.
  - Cover the contaminated soil until implementation of approved mitigation measures. 1166(c)(1)(C)
  - Notify the SCAQMD at (909) 396-2326 within 24 hours of detection of VOC contaminated soil. 1166(c)(2)(A)
- A person shall not engage in or allow any on- or off-site spreading of VOC contaminated soil which results in uncontrolled evaporation of VOC to the atmosphere. 1166(c)(3)

Exemptions

- Treatment of less than one (1) cubic yard of contaminated soil. 1166(d)(1)(A)
- Decontamination of soil containing organic compounds that have an initial boiling point of 302EF or greater, Reid Vapor Pressure less than 80 mm Hg or Absolute Vapor Pressure less than 36 mm Hg at 20EC. 1166(d)(1)(B),(F)
- Removal of soil for sampling purposes pursuant to Environmental Protection Agency methods. 1166(d)(1)(C)
- Accidental spillage of five (5) gallons or less of VOC. 1166(d)(1)(D)
- Documentation of soil which is contaminated through natural seepage of VOC from oil and gas wells or other natural sources. 1166(d)(1)(E)

SPECIFIC QUESTIONS ON RULE 1166 SHOULD BE REFERRED TO THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (909) 396-2326

COUNTY of LOS ANGELES FIRE DEPARTMENT
FIRE PREVENTION DIVISION
TANK REMOVAL VERIFICATION AND SITE LOG

GENERAL INFORMATION

Date _____

Tank Location _____

Contractor's Name _____

Contractor's License Number _____ Phone # _____

TANK STABILIZATION

	Time Completed	Contractor's Signature
1. Remaining product removed through product lines		
2. Date Gas Analyzer Last Tested (not more than 3 months old)		
3. L.E.L. and O^2 Readings		

EXCAVATION

Continuous monitoring of vapor concentrations around the excavation site is required, log readings every 30 minutes in section below.

Reading	Time	Signature

CERTIFICATION

Tank ID # _____ EPA ID # _____

Tank Size _____ Tank Type _____

Tank Cleaned by _____ Signature _____

CERTIFIED INDUSTRIAL HYGIENIST/MARINE CHEMIST – ATTACH BUSINESS CARD

Name _____ Signature _____

Date Certified _____ Time Certified _____

TRANSPORT - ATTACH COPY OF TRANSPORT MANIFEST

Tank transported by _____

To _____

UNDERGROUND STORAGE TANK
CLOSURE INFORMATION

1. This application is for authorization to temporarily or permanently close an underground storage tank (UST) pursuant to Los Angeles County Code, Title 11, Division 4 and California Code of Regulations, Title 23, Division 3, Chapter 16. This application may also be used for product piping removal associated with an existing or removed USTs.

2. This application will not be approved unless a valid Hazardous Material Underground Storage Permit (HMUSP) or Unified Program (UP) Permit application is on file with the Department of Public Works (DPW).

3. Additional fees may be imposed for closure of USTs that were not in compliance with December 22, 1998, standards for upgrade or temporary closure.

4. USTs closed on site by removal or cleaning and filling with an inert solid material prior to January 1, 1984, need not comply with current closure requirements, however, contamination related to these USTs must be reported and cleaned up.

5. This application must be accompanied by a UP UST FACILITY INFORMATION form for each site and UP UST TANK INFORMATION form for each UST to be removed or closed.

6. All work shall be carried out in full compliance with all applicable Federal, State and local laws, ordinances, rules and regulations.

7. All fees due to DPW and/or to the Certified Unified Program Agency (CUPA) for the operation and/or maintenance of the facility subject to closure through the date of closure shall be paid in full.

8. All inspection notification(s) shall be made as directed by the attached conditions of this approval.

9. Within 30 days after closure, the applicant shall furnish to the DPW a closure report per the DPW Closure Report Requirements and Supplements, describing all work completed, results of any required sampling, disposition of any contaminated soils or materials found and any other requirements made part of the closure application.

10. In all cases, closure permits expire 180 days from the date of issue unless otherwise specified. It is the responsibility of the owner or operator to make sure that the final report contains the required information and is submitted to the DPW within 30 days from the sampling date or 180 days from the date of the permit issuance, whichever is earlier. The total number of tanks listed on the HMUSP or UP Permit and the yearly annual permit maintenance billing will remain unchanged until the closure report is received by the DPW. Only one copy of the closure report needs to be submitted unless otherwise directed.

11. All closure applications are site specific and may be subject to additional sampling and site characterization requirements as necessary to protect the public health and safety, underground and surface water supplies, and may include requirements, requested by Federal, State or other regulatory agencies.

12. All correspondence related to this closure authorization shall include the SITE-FILE number listed on the front of this document, found in the upper right box and be addressed to the following location:

DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION
900 SOUTH FREMONT AVENUE
ALHAMBRA, CA 91803-1331
(626) 458-3517

CERTIFICATION OF COMPLIANCE WITH LOS ANGELES COUNTY LOBBYIST ORDINANCE

This is to certify that I, as permit applicant, for the project located at 5010 N. AZUSA CANYON RD
LOCATION ADDRESS

am familiar with the requirements of Los Angeles County Code Chapter 2.160 et seq. (relating to the Los Angeles County Lobbyist Ordinance) and all persons acting on behalf of myself have complied and will continue to comply therewith through the application process.

Christina Meza — Christina Meza
APPLICANT (PRINT NAME) — APPLICANT SIGNATURE

Sunwest Engineering Contractors — 11/6/08
COMPANY NAME (If employed by an entity/agency) — DATE

FORM VALID JULY 1, 2008 TO JUNE 30, 2009

APPLICATION FOR CLOSURE

FOR HAZARDOUS MATERIAL UNDERGROUND STORAGE TANKS
COUNTY OF LOS ANGELES, DEPARTMENT OF PUBLIC WORKS
Environmental Programs Division
900 South Fremont Avenue, 3rd Floor Annex Building
Alhambra, CA 91803-1331
Ph No. (626) 458-3517 Fax No. (626) 458-3569
www.888CleanLA.com

DPW USE ONLY:
SITE-FILE NO. 3755-3882
APPLICATION NO. 591016 AREA 35
CHECK [ ] CASH [ ] OTHER [ ]
FEE $ _____

TANK OWNER: Contact Name: Zachary D. Feingold Phone: (909) 620-5498
Mailing Address: P.O. Box 725 City: Chino State: CA Zip: 91708

FACILITY/SITE: Occupant Name: Verizon California Inc. Phone: (818) 960-3175
Site Address: 5010 North Azusa Canyon Rd. City: Baldwin Park State: CA Zip: 91706
Mailing Address: 5010 North Azusa Canyon Rd. City: Baldwin Park State: CA Zip: 91706
Contact Person: Zachary D. Feingold Title: Environment Management

CONTRACTOR ☐ OWNER/OPERATOR AS CONTRACTOR ☐
Contractor Name: ~~Sunwest Engineering Construction Inc.~~ Tact Dr Phone: ~~(909) 902-0850~~
State License No.: ~~728190~~ 588098 Class: A, B, HAZ

Contractors Shall Be Hazardous Substance Removal Certified "HAZ" per Business & Professions Code Division 3, Chapter 9, Article 4, §7058.7 (e)

CLOSURE REQUESTED: Closure of Underground Storage Tanks (USTs) shall be in compliance with California Health and Safety Code Division 20, Chapter 6.7, §25298, and California Code of Regulations Title 23, Division 3, Chapter 16, Sections 2670 through 2672.

HOW MANY UNDERGROUND STORAGE TANKS WILL REMAIN AFTER THIS CLOSURE? 0 EXISTING HMUSP NO.: AR0004710

- ■ PERMANENT, UST REMOVAL (See CCR, Title 23, Division 3, Chapter 16, §2672(b))
- ☐ PERMANENT, CLOSURE IN PLACE (See CCR, Title 23, Division 3, Chapter 16, §2672(c)) - Attach Justification Statement
- ☐ TEMPORARY CLOSURE (See CCR, Title 23, Division 3, Chapter 16, §2671)
- ☐ OTHER (PIPING, UNDER DISPENSER CONTAINMENT, ETC): _____

PLOT PLAN ATTACHED ☒ Show existing tanks, product piping and dispenser locations.

NO. OF UST's TO BE CLOSED	*	UST ID NO. (DPW USE ONLY)	CAPACITY GALLONS	MATERIALS STORED (PAST/PRESENT)	CLOSURE APPLICATION FEE
1			12,000	Unleaded Gasoline	$430.00
2					$529.00
3					$628.00
4					$727.00
5					$826.00
6 (+ ATTACH LIST)					$331.00 + $99.00/PER TANK =

	YES	NO
Has an unauthorized release ever occurred at this site?	☒	☐
Has a structural repair ever been made to these tanks?	☒	☐
Will new underground storage tanks be installed after closure?	☐	☒
Will any wells, including monitoring wells, be abandoned?	☐	☒

NOTICE: CONTAMINATED TANKS AND RESIDUES IN TANKS TO BE CLOSED, MAY BE HAZARDOUS WASTE WHICH MUST BE TRANSPORTED AND DISPOSED OF PURSUANT TO CALIFORNIA HEALTH AND SAFETY CODE DIVISON 20, CHAPTER 6.5 AND MUST BE REPORTED IN THE CLOSURE REPORT. FAILURE TO COMPLY MAY BE PROSECUTED AS A FELONY VIOLATION.

By signature below the applicant certifies that all statements and disclosures above are true and correct and that they have read and agree to abide by this permit and all conditions and limitations on the back and attached.

Applicant's Signature Christina Meza Date 11/6/08
(Print Name) Christina Meza Phone (951) 870-0451
Owner ☐ Operator ☐ Contractor ☒

TO BE COMPLETED BY THE DEPARTMENT OF PUBLIC WORKS

PURSUANT TO SECTION 11.80.070B, LOS ANGELES COUNTY CODE, PERMISSION IS HEREBY GRANTED TO PROCEED WITH THE CLOSURE DESCRIBED ABOVE SUBJECT TO THE ATTACHED CONDITIONS AND LIMITATIONS.

THIS AUTHORIZATION EXPIRES: 05/06/09 ***SEE ATTACHMENTS***

DEAN D. EFSTATHIOU
Acting Director of Public Works

By: _____ Date: 11/06/08

UNIFIED PROGRAM CONSOLIDATED FORM

HAZARDOUS WASTE

HAZARDOUS WASTE TANK CLOSURE CERTIFICATION

DOUBLE-WALL STEEL TANK, FIBROUS GLASS WRAPPED; 12,000-GALLON CAPACITY

CGI: Gastech GT402 #9644235

I. FACILITY IDENTIFICATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3

FACILITY ID# 1

TANK OWNER NAME 740: VERIZON WIRELESS YARD

TANK OWNER ADDRESS 741: 5010 AZUSA CANYON ROAD

TANK OWNER CITY 742: IRWINDALE | STATE 743: CALIFORNIA | ZIP CODE 744: 91706

II. TANK CLOSURE INFORMATION

TANK INTERIOR ATMOSPHERE READINGS	Tank ID # (Attach additional copies of this page for more than three tanks)	Concentration of Flammable Vapor, %			Concentration of Oxygen, %		
		Top	Center	Bottom	Top	Center	Bottom
1	745: 520/1	746a: <1	746b: <1	746c: <1	747a: 20.9	747b: 20.9	747c: 20.9
2	748:	749a: (40 ppm)	749b: (100 ppm)	749c: (180 ppm)	750a:	750b:	750c:
3	751:	752a:	752b:	752c:	753a:	753b:	753c:

III. CERTIFICATION

On examination of the tank, I certify the tank is visually free from product, sludge, scale (thin, flaky residual of tank contents), rinseate and debris. I further certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF CERTIFIER: Nancy Carraway

NAME OF CERTIFIER (Print) 754: Nancy Carraway

TITLE OF CERTIFIER 755: Certified Industrial Hygienist

ADDRESS 756: 991 East California Boulevard

CITY 757: Pasadena, California 91106

PHONE 758: 626 676 7681

DATE 759: 05/20/2009

CERTIFICATION TIME: 9:32 am - 9:36 am

STATUS OR AFFILIATION OF CERTIFYING PERSON

Certifier is a representative of the CUPA, authorized agency, or LIA: 760

☐ Yes ☒ No

Name of CUPA, authorized agency, or LIA: 761: LOS ANGELES COUNTY FIRE DEPARTMENT

If certifier is other than CUPA / LIA check appropriate box below: 762

- ☒ a. Certified Industrial Hygienist (CIH)
- ☐ b. Certified Safety Professional (CSP)
- ☐ c. Certified Marine Chemist (CMC)
- ☐ d. Registered Environmental Health Specialist (REHS)
- ☐ e. Professional Engineer (PE)
- ☐ f. Class II Registered Environmental Assessor
- ☐ g. Contractors' State License Board licensed contractor (with hazardous substance removal certification)

TANK PREVIOUSLY HELD FLAMMABLE OR COMBUSTIBLE MATERIALS: GASOLINE 763

(If yes, the tank interior atmosphere shall be re-checked with a combustible gas indicator prior to work being conducted on the tank.) ☒ Yes ☐ No

CERTIFIER'S TANK MANAGEMENT INSTRUCTIONS FOR SCRAP DEALER, DISPOSAL FACILITY, ETC: 764

Inert tank interior before torch cutting or using sparking tools on or near tank. Tank is not suitable for potable water storage, for personnel entry, or for hot work. Tank is suitable for cold work.

A copy of this certificate shall accompany the tank to the recycling / disposal facility and be provided to the CUPA. If there is no CUPA, copies shall be submitted to the LIA and authorized agency, owner / operator of the tank system, removal contractor, and the recycling / disposal facility.

Appendix B
Site Photographs

Shaw Environmental, Inc.
Photographic Record

Client: Verizon **Project Number:** 135823.01

Site Name and Location: Verizon Facility, 5010 Azusa Canyon Road, Irwindale, California

Comments: View of excavation shortly after commencing with soil removal work above the UST. Direction of photograph is toward the north-northwest.

Photographer: Lou Nielsen **Date:** May 18, 2009

Photograph 1 of 12

Shaw Environmental, Inc.
Photographic Record

Client: Verizon **Project Number:** 135823.01

Site Name and Location: Verizon Facility, 5010 Azusa Canyon Road, Irwindale, California

Comments: Additional view of excavation shortly after commencing with soil removal work above the UST. Direction of photograph is toward the east-northeast (note: Verizon building in the background).

Photographer: Lou Nielsen **Date:** May 18, 2009

Photograph 2 of 12

Shaw Environmental, Inc.
Photographic Record

Client: Verizon **Project Number:** 135823.01

Site Name and Location: Verizon Facility, 5010 Azusa Canyon Road, Irwindale, California

Comments: View of excavated vent line trench.

Photographer: Khalfani Lee	**Date:** May 19, 2009

Photograph 3 of 12

Shaw Environmental, Inc.
Photographic Record

Client: Verizon **Project Number:** 135823.01

Site Name and Location: Verizon Facility, 5010 Azusa Canyon Road, Irwindale, California

Comments: Additional view of the excavation prior to the removal of UST.

Photographer: Khalfani Lee **Date:** May 19, 2009

Photograph 4 of 12

Shaw Environmental, Inc.
Photographic Record

Client: Verizon **Project Number:** 135823.01

Site Name and Location: Verizon Facility, 5010 Azusa Canyon Road, Irwindale, California

Comments: View of exposed UST; secured via straps and ready for removal.

Photographer: Khalfani Lee	**Date:** March 20, 2009

Photograph 5 of 12

Shaw Environmental, Inc.
Photographic Record

Client: Verizon **Project Number:** 135823.01

Site Name and Location: Verizon Facility, 5010 Azusa Canyon Road, Irwindale, California

Comments: View of UST being removed.

Photographer: Khalfani Lee	**Date:** May 20, 2009

Photograph 6 of 12

Shaw Environmental, Inc.
Photographic Record

Client: Verizon **Project Number:** 135823.01

Site Name and Location: Verizon Facility, 5010 Azusa Canyon Road, Irwindale, California

Comments: View of UST removed from tank pit and awaiting loading onto a flatbed truck for off-site transport.

Photographer: Khalfani Lee	**Date:** May 20, 2009

Photograph 7 of 12

Shaw Environmental, Inc.
Photographic Record

Client: Verizon **Project Number:** 135823.01

Site Name and Location: Verizon Facility, 5010 Azusa Canyon Road, Irwindale, California

Comments: View of excavation after UST removal.

Photographer: Khalfani Lee **Date:** May 20, 2009

Photograph 8 of 12

Shaw Environmental, Inc.
Photographic Record

Client: Verizon **Project Number:** 135823.01

Site Name and Location: Verizon Facility, 5010 Azusa Canyon Road, Irwindale, California

Comments: View of the removed UST being loaded onto a flatbed truck for transport off-site.

Photographer: Khalfani Lee	**Date:** May 20, 2009

Photograph 9 of 12

Shaw Environmental, Inc.
Photographic Record

Client: Verizon **Project Number:** 135823.01

Site Name and Location: Verizon Facility, 5010 Azusa Canyon Road, Irwindale, California

Comments: View excavator bucket used to retrieve soil for confirmation sampling.

Photographer: Khalfani Lee **Date:** May 20, 2009

Photograph 10 of 12

Shaw Environmental, Inc.
Photographic Record

Client: Verizon **Project Number:** 135823.01

Site Name and Location: Verizon Facility, 5010 Azusa Canyon Road, Irwindale, California

Comments: View of soil stockpile sampling location

Photographer: Khalfani Lee **Date:** May 20, 2009

Photograph 11 of 12

Shaw Environmental, Inc.
Photographic Record

Client: Verizon **Project Number:** 135823.01

Site Name and Location: Verizon Facility, 5010 Azusa Canyon Road, Irwindale, California

Comments: View of stockpiled soil and heavy equipment with security fencing at the site.

Photographer: Khalfani Lee	**Date:** May 20, 2009

Photograph 12 of 12

Appendix C
Waste Manifest for Rinseate Disposal

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAR000084251	1	(714) 990 - 6855	002152481 FLE

GENERATOR

5. Generator's Name and Mailing Address
Verizon California Inc.
P.O. Box 725
Chino, CA 91708
Generator's Phone: **909-613-1554**

Generator's Site Address (if different than mailing address)
Verizon CA Inc.- Irwindale Py
5010 Azusa Canyon Road
Irwindale, CA 91706

6. Transporter 1 Company Name
Nieto and Sons Trucking, Inc.
U.S. EPA ID Number: **CAT080016116**

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
DeMenno Kerdoon
2000 N. Alameda Street
Compton, CA 90222
Facility's Phone: **(310) 537-7100**
U.S. EPA ID Number: **CAT080013352**

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. **NON RCRA HAZARDOUS WASTE LIQUID (Oily Water Mixture)**	001	TT	200	G	241		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Wear All Appropriate Protective Clothing

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator/Offeror's Printed/Typed Name: Randy NOVAK
Signature:
Month: 05 Day: 20 Year: 09

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ron Rodriguez
Signature:
Month: 05 Day: 20 Year: 09
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Fernando Marquez
Signature:
Month: 05 Day: 20 Year: 09

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

NIETO & SONS TRUCKING, INC.

License # 673912
1281 Brea Canyon Road • Brea, CA 92821
Mail Address: P.O. Box 760 • Yorba Linda, CA 92885-0760
(714) 990-6855 • Fax (714) 990-4862

(1)

DAILY TICKET
DT 03650
JOB DATE 5/20/09

Su M Tu (W) Th F Sa

CUSTOMER	ORDER DATE	ORDER TIME	P.O. NUMBER
TAIT ENV	5/12/09	9:00AM	VZ-00210

ORDERED BY: BRANDON — TELEPHONE:

ADDRESS:

JOB SITE - NAME - ADDRESS WITH CROSS STREETS:
VERIZON
5010 AZUSA CANYON ROAD
IRWINDALE

DRIVER	TRUCK NO	TRAILER	HELPER #1	HELPER #2	TRUCK NO.	START TIME
Ronnie Rodrigy	299	—	Carlos Oropa	Joe Machado 163 degas	126	630AM

ON SITE AT: 8:00AM

TANKS:	Contents	S/W	D/W
#1 10 K	GAS	~~FG~~ (Steel)	~~8' or 9'6"~~ (D/W)
#2 — K	—	FG Steel	8' or 9'6"
#3 — K	—	FG Steel	8' or 9'6"
#4 — K	—	FG Steel	8' or 9'6"
#5 — K	—	FG Steel	8' or 9'6"
#6 — K	—	FG Steel	8' or 9'6"

Any excess fluid in tank(s) ~~YES~~ (NO) If yes, what and how much? _____ LEAD AGENCY: _____

Windows required: (YES) ~~NO~~ If yes, A/C & rivet bust by (NIETO) ~~CLIENT~~ Water on site (YES) ~~NO~~

Chemist required (YES) ~~NO~~ If yes, chemist by (NIETO) ~~CLIENT~~ NANCY On site at 9:45AM Date on site TODAY 5/20 (EMAIL) YES NO V/M

Double Degas: ~~YES~~ (NO) Day #1 On site time: — Date — AQMD# — Day #2 Date — Time —

Single degassing required: (YES) ~~NO~~ On site time: 8:00AM Date: TODAY 5/20 AQMD # _____

Tank(s) lifted by: ~~CLIENT'S backhoe~~ ~~NIETO 14 ton stinger crane~~ (Hyrdo crane)

Hydro crane by: (NIETO) ~~CLIENT~~ Hydro crane company: _____ Crane scheduled: YES NO

Tank pull time: 10AM Crane arrival time: 9:45AM Tank pull date: TODAY 5/20

Tanks hauled by: (NIETO) ~~CLIENT~~ To: Ecology Trk# 1 of 1 On site time _____ STAKEBED FLATBED PICKUP TRUCK DROP DECK & PERMIT SIGNS

Dry ice required ~~YES~~ (NO) Provided by: ~~NIETO~~ ~~CLIENT~~ If Nieto by: ~~WASH CREW~~ ~~TRACTOR-TRAILER~~

Type of dry ice: Sliced — lbs. Pellets — lbs. Block — lbs. Amount — at — lbs/1k

~~Special~~ LEL/02 meter req'd? (YES) ~~NO~~ Air compressor venturi req'd? (YES) ~~NO~~ A/C Venturi Needed next day for tank pull? ~~YES~~ (NO)

ON SITE REPORT

YARD DEPART	JOB ARRIVE	START WORK	STOP WORK	JOB DEPART	YARD ARRIVE	DELAYS ON SITE	TOTAL HOURS
	7:40			10:00			

Tanks on site											
1	#1 12 K	GAS	S/W FG (Steel)	D/W ~~8' or 9'6"~~	#2 — K	—	S/W FG Steel	D/W 8' or 9'6"	#3 — K	—	S/W FG Steel / D/W 8' or 9'6"
	#4 — K	—	S/W FG Steel	D/W 8' or 9'6"	#5 — K	—	S/W FG Steel	D/W 8' or 9'6"	#6 — K	—	S/W FG Steel / D/W 8' or 9'6"

Manifest No. 018481 FLE Gallons: 200 Excess fluid on site: YES NO How much? _____

Total Solids ☐ Less than 1/2 drum ☐ 1/2 Drum _____ ☐ 1 Drum _____ Drums

NOTES:

DRIVER SIGNATURE	TRUCK NO.	CUSTOMER SIGNATURE	DATE
		X [signature]	5/20/09

DRIVER'S COPY

Appendix D
Certificate of Destruction for the UST and Associated Piping

CERTIFICATE OF DESTRUCTION

ECOLOGY AUTO PARTS
13780 E. IMPERIAL HWY
SANTA FE SPRINGS, CA 90670
(562) 404-8683

COMPANY : Verizon
JOB SITE : 5010 Azusa Canyon Road
Irwindale, CA

DESCRIPTION : *1–12,000 gallon steel tank*

UNDERGROUND STORAGE TANK(S)
HAVE BEEN SCRAPPED, CRUSHED AND DESTROYED AT
ECOLOGY AUTO PARTS
SANTA FE SPRINGS, CA
ON : 5-20-09

SIGNATURE : Barbara Medrano
TITLE : MANAGER / BARBARA MEDRANO
DATE : 5/20/09

Appendix E
Laboratory Reports and
Chain-of-Custody Documents

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

May 22, 2009 ELAP Certificate No: 2268

Mr. Jim Cirillo
Shaw Environmental and Infrastructure Inc
3347 Michelson Drive, #200
Irvine, CA 92612

Project: Verizon
C&E ID: 90520C

Dear Mr.Cirillo,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on May 20, 2009, and analyzed as indicated in the attached chain-of-custody.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please contact me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

---EPA3500/ M8015 (Diesel) ---

Client Name:	Shaw Environmental and Infrastructure Inc.	Date Sampled:	05/20/09
Project Manager:	Jim Cirillo	Date Prepared:	05/20/09
Project Name:	Verizon	Batch Number:	TPHD-90520
Sample Matrix:	Soil	Date Analyzed:	05/21/09

C&E LAB ID	SAMPLE ID	DF	RL	RESULT (mg/kg or ppm)	% Surrogate (70-130)
90520C-1	SS-01	1	1	ND	92
90520C-2	SS-02	1	1	ND	93
90520C-3	SS-03	1	1	ND	92
90520C-4	SS-04	1	1	ND	93
90520C-5	SS-05	1	1	ND	94
90520C-6	SS-06	1	1	ND	78
90520C-7	SS-07	1	1	ND	93
90520C-8	SS-08	1	1	ND	86
90520C-9	SS-09	1	1	ND	106
90520C-10	SP-01	1	1	ND	93
90520C-11	SP-02	1	1	ND	96
90520C-12	SP-03	1	1	ND	91
90520C-13	SP-04	1	1	ND	80

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 5035/ 8260B (BTEX/Oxygenates/TPH-g) ---

Client Name:	Shaw Environmental and Infrastructure Inc.	Date Sampled:	05/20/09
Project Manager:	Jim Cirillo	Date Analyzed:	05/20/09
Project Name:	Verizon	Batch Number:	G/B/O-90520
Sample Matrix:	Soil	Unit Reported:	µg/kg or ppb

C&E LAB ID	90520C-1	90520C-2	90520C-3	90520C-4	90520C-5
SAMPLE ID	SS-01	SS-02	SS-03	SS-04	SS-05
DF	1	1	1	1	1

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Ethyl Tertiary Butyl Ether	ND	2	ND	2	ND	2	ND	2	ND	2
Tertiary Amyl Methyl Ether	ND	2	ND	2	ND	2	ND	2	ND	2
Diisopropyl Ether	ND	2	ND	2	ND	2	ND	2	ND	2
Tertiary Butyl Alcohol	ND	20	ND	20	ND	20	ND	20	ND	20
MTBE	ND	2	ND	2	ND	2	ND	2	ND	2
Benzene	ND	1	ND	1	ND	1	ND	1	ND	1
Toluene	ND	1	ND	1	ND	1	ND	1	ND	1
Ethylbenzene	ND	1	ND	1	ND	1	ND	1	ND	1
Xylenes	ND	1	ND	1	ND	1	ND	1	ND	1
Gasoline	ND	100	ND	100	ND	100	ND	100	ND	100

% Surrogate Recoveries (70-130)	79	91	85	86	81

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 5035/ 8260B (BTEX/Oxygenates/TPH-g) ---

Client Name:	Shaw Environmental and Infrastructure Inc.	Date Sampled:	05/20/09
Project Manager:	Jim Cirillo	Date Analyzed:	05/20/09
Project Name:	Verizon	Batch Number:	G/B/O-90520
Sample Matrix:	Soil	Unit Reported:	µg/kg or ppb

C&E LAB ID	90520C-6	90520C-7	90520C-8	90520C-9	90520C-10
SAMPLE ID	SS-06	SS-07	SS-08	SS-09	SP-01
DF	1	1	1	1	1

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Ethyl Tertiary Butyl Ether	ND	2	ND	2	ND	2	ND	2	ND	2
Tertiary Amyl Methyl Ether	ND	2	ND	2	ND	2	ND	2	ND	2
Diisopropyl Ether	ND	2	ND	2	ND	2	ND	2	ND	2
Tertiary Butyl Alcohol	ND	20	ND	20	ND	20	ND	20	ND	20
MTBE	ND	2	ND	2	ND	2	ND	2	ND	2
Benzene	ND	1	ND	1	ND	1	ND	1	ND	1
Toluene	ND	1	ND	1	ND	1	ND	1	ND	1
Ethylbenzene	ND	1	ND	1	ND	1	ND	1	ND	1
Xylenes	ND	1	ND	1	ND	1	ND	1	ND	1
Gasoline	ND	100	ND	100	ND	100	ND	100	ND	100

% Surrogate Recoveries (70-130)	86	89	85	86	85

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 5035/ 8260B (BTEX/Oxygenates/TPH-g) ---

Client Name:	Shaw Environmental and Infrastructure Inc.	Date Sampled:	05/20/09
Project Manager:	Jim Cirillo	Date Analyzed:	05/20/09
Project Name:	Verizon	Batch Number:	G/B/O-90520
Sample Matrix:	Soil	Unit Reported:	µg/kg or ppb

C&E LAB ID	90520C-11	90520C-12	90520C-13		
SAMPLE ID	SP-02	SP-03	SP-04		
DF	1	1	1		

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Ethyl Tertiary Butyl Ether	ND	2	ND	2	ND	2				
Tertiary Amyl Methyl Ether	ND	2	ND	2	ND	2				
Diisopropyl Ether	ND	2	ND	2	ND	2				
Tertiary Butyl Alcohol	ND	20	ND	20	ND	20				
MTBE	ND	2	ND	2	ND	2				
Benzene	ND	1	ND	1	ND	1				
Toluene	ND	1	ND	1	ND	1				
Ethylbenzene	ND	1	ND	1	ND	1				
Xylenes	ND	1	ND	1	ND	1				
Gasoline	ND	100	ND	100	ND	100				

% Surrogate Recoveries (70-130)	90	90	90		

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 3050/6010B (Lead) ---

Client Name:	Shaw Environmental and Infrastructure I	Date Sampled:	05/20/09
Project Manager:	Jim Cirillo	Date Prepared:	05/20/09
Project Name:	Verizon	Batch Number:	Pb-90520
Sample Matrix:	Soil	Date Analyzed:	05/21/09

C&E LAB ID	SAMPLE ID	DF	RESULT (mg/kg)	RL
90520C-1	SS-01	1	2	1
90520C-2	SS-02	1	1	1
90520C-3	SS-03	1	ND	1
90520C-4	SS-04	1	1	1
90520C-5	SS-05	1	1	1
90520C-6	SS-06	1	ND	1
90520C-7	SS-07	1	1	1
90520C-8	SS-08	1	1	1
90520C-9	SS-09	1	1	1
90520C-10	SP-01	1	ND	1
90520C-11	SP-02	1	1	1
90520C-12	SP-03	1	ND	1
90520C-13	SP-04	1	ND	1

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

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CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 5035/ 8015B (Methanol/Ethanol) ---

Client Name:	Shaw Environmental and Infrastructure Inc.	Date Sampled:	05/20/09
Project Manager:	Jim Cirillo	Date Prepared:	05/20/09
Project Name:	Verizon	Batch Number:	Alco-90520
Sample Matrix:	Soil	Date Analyzed:	05/20/09

C&E LAB ID	SAMPLE ID	DF	RESULT (µg/kg or ppb)		RL
			Methanol	Ethanol	
90520C-1	SS-01	1	ND	ND	500
90520C-2	SS-02	1	ND	ND	500
90520C-3	SS-03	1	ND	ND	500
90520C-4	SS-04	1	ND	ND	500
90520C-5	SS-05	1	ND	ND	500
90520C-6	SS-06	1	ND	ND	500
90520C-7	SS-07	1	ND	ND	500
90520C-8	SS-08	1	ND	ND	500
90520C-9	SS-09	1	ND	ND	500
90520C-10	SP-01	1	ND	ND	500
90520C-11	SP-02	1	ND	ND	500
90520C-12	SP-03	1	ND	ND	500
90520C-13	SP-04	1	ND	ND	500

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- 5035/8260B (Gasoline in Soil) ---

I. Laboratory Control Sample

Date Prepared: 05/20/09
Date Analyzed: 05/20/09
Batch Number: G/B/O-90520
LCS ID: TPHG90520L

ANALYTE	LCS %	ACP %CL
Gasoline	119	70-130

Surrogate Compounds	% Surr. Rec. (70-130)
4-Bromofluorobenzene	110

II. Matrix Spike/Matrix Spike Duplicate

Date Prepared: 05/20/09
Date Analyzed: 05/20/09
Batch Number: G/B/O-90520
Sample ID : 90519E-3

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
Gasoline	106	117	10	70-130	20

Surrogate Compounds	% Surr. Rec. (70-130) (MS)	% Surr. Rec. (70-130) (MSD)
4-Bromofluorobenzene	107	110

III. Method Blank

Date Prepared: 05/20/09
Date Analyzed: 05/20/09
Batch Number: G/B/O-90520
MBLK ID : TPHG90520B

Unit: mg/kg

COMPOUND	REPORTING LIMIT	RESULT
Gasoline	0.1	ND

Surrogate Compounds	% Surr. Rec. (70-130)
4-Bromofluorobenzene	94

ND = Not detected at the indicated reporting limit.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 3500/8015M (Diesel in Soil) ---

I. Laboratory Control Sample

Date Prepared: 05/20/09
Date Analyzed: 05/21/09
Batch Number: TPHD-90520
LCS ID: TPH90520L

ANALYTE	LCS %	ACP %CL
Diesel	91	70-130

Surrogate Compounds	% Surr. Rec. (70-130)
4-Bromofluorobenzene	85

II. Matrix Spike/Matrix Spike Duplicate

Date Prepared: 05/20/09
Date Analyzed: 05/21/09
Batch Number: TPHD-90520
Sample ID : 90520C-5

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
Diesel	86	92	7	70-130	20

Surrogate Compounds	% Surr. Rec. (70-130) (MS)	% Surr. Rec. (70-130) (MSD)
4-Bromofluorobenzene	82	93

III. Method Blank

Date Prepared: 05/20/09
Date Analyzed: 05/21/09
Batch Number: TPHD-90520
MBLK ID : TPH90520B

Unit: mg/kg

COMPOUND	REPORTING LIMIT	RESULT
Diesel	1	ND

Surrogate Compounds	% Surr. Rec. (70-130)
4-Bromofluorobenzene	87

ND = Not detected at the indicated reporting limit.

14148 E.Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 5035/ 8260B (BTEX/Oxygenates in soil) ---

I. Laboratory Control Sample

Date Prepared: 05/20/09
Date Analyzed: 05/20/09
Batch Number: G/B/O-90520
LCS ID: B/O90520L

ANALYTE	LCS %	ACP %CL
DIPE	88	70-130
ETBE	85	70-130
Benzene	88	70-130
Toluene	88	70-130
Ethylbenzene	90	70-130
Xylenes	93	70-130

Surrogate Compounds	% Surr. Rec. (70-130)
4-Bromofluorobenzene	100

II. Matrix Spike/Matrix Spike Duplicate

Date Prepared: 05/20/09
Date Analyzed: 05/20/09
Batch Number: G/B/O-90520
Sample ID : 90520C-1

ANALYTE	MS %	MSD %	RPD	ACP %CL	ACP RPD
DIPE	93	88	6	70-130	20
ETBE	95	88	8	70-130	20
Benzene	93	90	3	70-130	20
Toluene	88	85	3	70-130	20
Ethylbenzene	90	90	0	70-130	20
Xylenes	90	88	2	70-130	20

Surrogate Compounds	% Surr. Rec. (70-130) (MS)	% Surr. Rec. (70-130) (MSD)
4-Bromofluorobenzene	89	90

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 5035/ 8260B (BTEX/Oxygenates in soil) ---

III. Method Blank

Date Prepared: 05/20/09

Date Analyzed: 05/20/09

Batch Number: G/B/O-90520

MBLK ID:: B/O90520B

Unit: µg/kg

COMPOUND	REPORTING LIMIT	RESULT
Ethyl Tertiary Butyl Ether	2	ND
Tertiary Amyl Methyl Ether	2	ND
Diisopropyl Ether	2	ND
Tertiary Butyl Alcohol	20	ND
MTBE	2	ND
Benzene	1	ND
Toluene	1	ND
Ethylbenzene	1	ND
Xylenes	1	ND

Surrogate Compounds	% Surr. Rec. (70-130)
4-Bromofluorobenzene	94

ND = Not detected at the indicated reporting limit.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 3050/6010B (Lead in Soil) ---

I. Laboratory Control Sample

Date Prepared: 05/20/09
Date Analyzed: 05/21/09
Batch Number: Pb-90520
LCS ID: Pb90520L

ANALYTE	LCS %	ACP %CL
Lead	100	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Prepared: 05/20/09
Date Analyzed: 05/21/09
Batch Number: Pb-90520
Sample ID : 90520C-6

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
Lead	95	101	6	70-130	20

III. Method Blank

Date Prepared: 05/20/09
Date Analyzed: 05/21/09
Batch Number: Pb-90520
MBLK ID : Pb90520B Unit: mg/kg

COMPOUND	REPORTING LIMIT	RESULT
Lead	1	ND

ND = Not detected at the indicated reporting limit.

14148 E.Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 5035/8015B (Methanol/Ethanol in Soil) ---

I. Laboratory Control Sample

Date Prepared: 05/20/09
Date Analyzed: 05/20/09
Batch Number: Alco-90520
LCS ID: ME90520L

ANALYTE	LCS %	ACP %CL
Methanol	115	80-120
Ethanol	106	80-120

II. Matrix Spike/Matrix Spike Duplicate

Date Prepared: 05/20/09
Date Analyzed: 05/20/09
Batch Number: Alco-90520
Sample ID: 90520C-4

ANALYTE	MS %	MSD %	PRD	ACP%CL	ACP RPD
Methanol	96	97	1	80-120	20
Ethanol	92	93	1	80-120	20

III. Method Blank

Date Prepared: 05/20/09
Date Analyzed: 05/20/09
Batch Number: Alco-90520
MBLK ID: ME90520B

Unit: µg/kg

COMPOUND	REPORTING LIMIT	RESULT
Methanol	500	ND
Ethanol	500	ND

ND = Not detected at the indicated reporting limit.

14148 E.Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

Shaw

Shaw Environmental and Infrastructure Inc.

CHAIN OF CUSTODY

Ref. Document # 90520 C

Company Name:	Shaw Environmental, Inc.	Job Order Number:	135823.01000000
Address:	3347 Michelson Drive, #200	Project Name:	Verizon
City / State / Zip:	Irvine, CA 92612	Project Location:	5010 Azusa Canyon Rd
Project Manager:	Jim Cirillo	Purchase Order #:	
Phone/Fax Number:	(949) 660-5317/(949) 474-8309	Lab Destination:	C&E Laboratory
Send Report To:	ATTN: Jim Cirillo	Lab Contact:	Larry Zhang
Phone/Fax Number:	(949) 660-5317/(949) 474-8309	Lab Address:	14148 E. Firestone Blvd
Address:	3347 Michelson Drive, #200	Lab Destination:	Santa Fe Springs, CA 90670
City:	Irvine, CA 92612	Lab Phone #:	(562) 921-8123/(562) 921-7974
Project Contact:	Jim Cirillo		

			Collection Information					Bottle Type/Preservation Code																						
								Number of Bottles																						
	Shaw Sample Number	Location	Date	Time	Matrix	Sampling Method	No. of Bottles	TPH-Gasoline - 8015B Mod.	BTEX + TAME, ETBE, MTBE, TBA, DIPE - 8260B	Total lead - 6010B	ETHANOL - 8260B	METHANOL - 8015B mod	TPH DIESEL - 8015B mod																	
1	SS-01	17', FILL END	05/20/09	1140	SO	Grab	7	X	X	X	X	X	X																	
2	SS-02		05/20/09	1210	SO	Grab	7	X	X	X	X	X	X																	
3	SS-03		05/20/09	1247	SO	Grab	7	X	X	X	X	X	X																	
4	SS-04		05/20/09	1314	SO	Grab	7	X	X	X	X	X	X																	
5	SS-05		05/20/09	1340	SO	Grab	7	X	X	X	X	X	X																	
6	SS-06		05/20/09	1400	SO	Grab	7	X	X	X	X	X	X																	
7	SS-07		05/20/09	1429	SO	Grab	7	X	X	X	X	X	X																	
8	SS-08		05/20/09	1445	SO	Grab	7	X	X	X	X	X	X																	
9	SS-09		05/20/09	1500	SO	Grab	7	X	X	X	X	X	X																	
	SS-10		05/20/09		SO	Grab		X	X	X																				
	SS-11		05/20/09		SO	Grab		X	X	X																				
	SS-12		05/20/09		SO	Grab		X	X	X																				
	SS-13		05/20/09		SO	Grab		X	X	X																				
	SS-14		05/20/09		SO	Grab		X	X	X																				

Special Instructions: 24-day TAT - Results must be emailed to Jim Cirillo @ jim.cirillo@shawgrp.com

Project specific MDLs - see attached LA RWQCB analytical requirements

Sampler(s) Name(s): Jim Cirillo / Kali Lee

Relinquished By:		Received By:	Date: 5-20-09 Time: 17:15
Relinquished By:		Received By:	Date: Time:
Relinquished By:		Received By:	Date: Time:

Method Codes	Preservation Codes
G = Grab	1 = Hydrochloric Acid
LF - Low Flow	2 = Sulfuric Acid
Matrix Codes	3 = Sodium Hydroxide
DW = Drinking Water	4 = Cool 4 degrees C
GW = Ground Water	**Bottle Codes**
LIQ = Other Liquid	A = SS sleeve
SOL = Other Solid	B = 250-mL Plastic
C = Concrete	C = 1-L Amber Glass
SO =Soil	D = 250-mL Plastic

Shaw

Shaw Environmental and Infrastructure Inc.

CHAIN OF CUSTODY

Ref. Document # 9520C

Company Name:	Shaw Environmental, Inc.
Address:	3347 Michelson Drive, #200
City / State / Zip:	Irvine, CA 92612
Project Manager:	Jim Cirillo
Phone/Fax Number:	(949) 660-5317/(949) 474-8309
Send Report To:	ATTN: Jim Cirillo
Phone/Fax Number:	(949) 660-5317/(949) 474-8309
Address:	3347 Michelson Drive, #200
City:	Irvine, CA 92612
Project Contact:	Jim Cirillo

Job Order Number:	135823.01000000
Project Name:	Verizon
Project Location:	5010 Azusa Canyon Rd
Purchase Order #:	
Lab Destination:	Test America
Lab Contact:	Amy Harris
Lab Address:	17461 Derian Ave., #100
Lab Destination:	Irvine, CA 92614
Lab Phone #:	(949) 261-1022/(949) 260-3299

	Shaw Sample Number	Location	Collection Information: Date	Time	Matrix	Sampling Method	No. of Bottles	Bottle Type/Preservation Code: Number of Bottles: TPH-Gasoline - 8015B Mod.	BTEX + TAME, ETBE, MTBE, TBA, DIPE - 8260B	Total lead - 6010B	ETHANOL - 8260B	METHANOL - 8015B MOD	TPH - DIESEL - 8015B Mod.
(DW)	~~SS-01~~ SP-01	SW SIDE	05/20/09	1520	SO	Grab	7	X	X	X	X	X	X
11	~~SS-02~~ SP-02	SE SIDE	05/20/09	1530	SO	Grab	7	X	X	X	X	X	X
12	~~SS-03~~ SP-03	NW SIDE	05/20/09	1540	SO	Grab	7	X	X	X	X	X	X
13	~~SS-04~~ SP-04	NE SIDE	05/20/09	1550	SO	Grab	7	X	X	X	X	X	X
	SS-05		05/20/09		SO	Grab		X	X	X			
	SS-06		05/20/09		SO	Grab		X	X	X			
	SS-07		05/20/09		SO	Grab		X	X	X			
	SS-08		05/20/09		SO	Grab		X	X	X			
	SS-09		05/20/09		SO	Grab		X	X	X			
	SS-10		05/20/09		SO	Grab		X	X	X			
	SS-11		05/20/09		SO	Grab		X	X	X			
	SS-12		05/20/09		SO	Grab		X	X	X			
	SS-13		05/20/09		SO	Grab		X	X	X			
	SS-14		05/20/09		SO	Grab		X	X	X			

Special Instructions: 24-day TAT - Results must be emailed to Jim Cirillo @ jim.cirillo@shawgrp.com

Project specific MDLs - see attached LA RWQCB analytical requirements

Sampler(s) Name(s): Jim Cirillo / Kali Lee

Relinquished By:		Received By:	Date: 5/20/09 Time: 17:15
Relinquished By:		Received By:	Date: Time:
Relinquished By:		Received By:	Date: Time:

Method Codes	Preservation Codes
G = Grab	1 = Hydrochloric Acid
LF - Low Flow	2 = Sulfuric Acid
Matrix Codes	3 = Sodium Hydroxide
DW = Drinking Water	4 = Cool 4 degrees C
GW = Ground Water	**Bottle Codes**
LIQ = Other Liquid	A = 1-L SS sleeve
SOL = Other Solid	B = 250-mL Plastic
C = Concrete	C = 1-L Amber Glass
SO = Soil	D = 250-mL Plastic

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

SAMPLE RECEIPT FORM

DATE: 5/20/09 CLIENT: Shaw Environmental Cooler 1 of 1

C&E Lab ID: 90520 C Initials: M.D.

LABORATORY (Other than C&E Courier):	C & E COURIER:
___°C Temperature Blank	___Chilled, cooler with temperature blank provided.
___ Ambient Temperature	___ Chilled, cooler without temperature blank.
	✓ Chilled and placed in cooler with wet ice.
	___ Ambient and placed in cooler with wet ice.
	___Ambient Temperature
	___°C Temperature blank

CUSTODY SEAL INTACT:

Sample(s):___ Cooler: ___ No (Not Intact): ___ Not Applicable (N/A): ✓

SAMPLE CONDITION:	Yes	No	NA
1. Chain-of-Custody document(s) received with samples.....	✓		
2. Sample container label(s) consistent with custody papers	✓		
3. Sample container(s) intact and in good condition	✓		
4. Correct containers for analyses required	✓		
5. Proper preservation used	✓		
6. VOA vial(s) free of headspace			✓

COMMENTS:

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7474

Appendix F
South Coast AQMD Rule 1166 Mitigation Plan
And Vapor Monitoring Logs

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

PLAN ISSUE DATE May 6, 2009

APPROVAL SIGNATURE

David Jones
A.Q.A.C. Supervisor

COMPANY I.D.:	159709
Mitigation Plan/Application No.	**498435**
Applicant:	Verizon Corporate Services Group 3347 Michelson Drive, # 200 Irvine, CA 92612
Attention:	Jim Cirillo, Project Manager
Phone	(949) 660 - 5317 Fax (949) 474 - 8309

VARIOUS LOCATIONS
RULE 1166 CONTAMINATED SOIL MITIGATION PLAN

Reference is made to your application (A/N 498435) for the excavation and handling of VOC-contaminated soil at **various locations** within the South Coast Air Quality Management District.

In accordance with Rule 1166 (c), this approved plan is required prior to commencing excavation of any areas, sites, or locations which has previously been used to store or transfer volatile organic compounds (VOC) or during the excavation, handling, or storage of VOC-contaminated soils.

The rights and privileges granted through the issuance of this plan are restricted exclusively to the plan holder to whom it was issued, and are non-transferable, even with the written or expressed consent of the plan holder listed above.

A VARIOUS LOCATIONS PLAN can be used at a site to excavate and remove a maximum of 2000 cubic yards of VOC contaminated soil at the site. Any treatment or additional excavation of VOC contaminated soil at the site will require the issuance of a SITE SPECIFIC plan by the AQMD. Multiple use of VARIOUS LOCATIONS PLANS to excavate over 2000 cubic yards of contaminated soil for the same site is prohibited per Rule 1166.

This excavation and mitigation plan has been approved under the provisions of Rule 1166 of the Rules and Regulations of the AQMD and is subject to the following conditions.

THIS PLAN WILL EXPIRE ONE YEAR FROM THE ISSUE DATE AND THERE IS NO AUTOMATIC RENEWAL PROCESS.

TO MAINTAIN A CURRENT PLAN AFTER THE EXPIRATION DATE, FILE AN APPLICATION FOR A NEW PLAN AT LEAST ONE MONTH PRIOR ITS EXPIRATION. CALL 909 396- 2682 OR E-MAIL rvishwanath@aqmd.gov FOR AN APPLICATION PACKAGE AND CURRENT FEE INFORMATION.

PLAN CONDITIONS

SECTION I – GENERAL REQUIREMENTS

1. A SIGNED COPY OF THIS PLAN SHALL BE PRESENT AT EACH EXCAVATION SITE AT ALL TIMES AND SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

2. THIS PLAN IS NOT VALID FOR THE EXCAVATION OF VOC CONTAMINATED SOILS AT LANDFILLS OR SITES USED FOR DISPOSAL OF REFUSE OR OTHER TYPES OF WASTE.

3. THIS PLAN DOES NOT ALLOW THE TREATMENT OF VOC-CONTAMINATED SOIL BY THERMAL, CHEMICAL, OR MECHANICAL PROCESSES. ANY OF THE ABOVE TREATMENT PROCESSES REQUIRES A PERMIT TO OPERATE FROM THE AQMD AND A SITE-SPECIFIC RULE 1166 PLAN.

4. THIS PLAN DOES NOT ALLOW BACK-FILLING OF TREATED VOC CONTAMINATED SOIL. BACK-FILLING OF TREATED VOC CONTAMINATED SOIL MAY BE ALLOWED UNDER A SITE SPECIFIC RULE 1166 PLAN.

5. A). THE TOTAL QUANTITY OF VOC CONTAMINATED SOIL EXCAVATED AND HANDLED AT EACH SITE SHALL NOT EXCEED **2,000 CUBIC YARDS.** THIS TOTAL INCLUDES ANY VOC CONTAMINATED SOILS EXCAVATED FROM THIS LOCATION UNDER A VARIOUS LOCATION PLAN WITHIN THE LAST TWELVE (12) CALENDAR MONTHS. EXCAVATIONS INVOLVING QUANTITIES IN EXCESS OF 2000 CUBIC YARDS OF VOC CONTAMINATED SOIL REQUIRES THE APPLICATION SUBMITTAL FOR A SITE SPECIFIC RULE 1166 EXCAVATION PLAN.

6. THE AQMD SHALL BE IMMEDIATELY NOTIFIED OF ANY COMPLAINTS RECEIVED AS A RESULT OF ACTIVITIES CONDUCTED UNDER THIS PLAN. SUCH NOTIFICATION SHALL INCLUDE THE NATURE OF THE COMPLAINT, NUMBER OF COMPLAINANTS AND THE ACTION TAKEN BY THE PLAN HOLDER TO MITIGATE THE SOURCE OF THE COMPLAINT.

7. DURING EACH STEP OF THE PROCESS UP TO AND INCLUDING THE REMOVAL AND DISPOSAL PROCESS, ALL PRECAUTIONS AND MEASURES SHALL BE TAKEN TO MINIMIZE THE RELEASE OF VOC, ODOR AND DUST. THIS INCLUDES BUT IS NOT LIMITED TO: THE USE OF ADDITIONAL PLASTIC SHEETING ON STOCKPILES, USE OF SUPPRESSANTS ON EXPOSED SOIL SURFACES & WORK AREAS AND MAINTAINING PAVED PUBLIC STREETS FREE OF SOIL DEPOSITS.

8. FOR THE PURPOSES OF RULE 1166 AND THIS PLAN, SOIL MEASURED PURSUANT TO RULE 1166 AS VOC CONTAMINATED SOIL, IS CONSIDERED AS VOC CONTAMINATED SOIL FROM THE TIME OF MEASUREMENT ONWARD, UNTIL THE SOIL IS TREATED PURSUANT TO AN APPROVED AQMD TREATMENT PROCESS.

SECTION II – PRIOR TO EXCAVATION

9. AT LEAST 24 **HOURS** PRIOR TO COMMENCING EXCAVATION OR GRADING OF SOIL AT THE SITE, THE EXECUTIVE OFFICER OR DESIGNEE SHALL BE NOTIFIED OF THE EXCAVATION BY FAX USING A FORM APPROVED BY THE EXECUTIVE OFFICER WHICH IS FULLY COMPLETED AND INCLUDING, THE NAME OF THE COMPANY PERFORMING THE EXCAVATION, AND THE APPLICATION NUMBER LISTED ON THIS MITIGATION PLAN. THE NOTIFICATION SHALL BE MADE BY FAXING THE NOTIFICATION FORM AT (909) 396-3342. FAX NOTIFICATIONS WILL RECEIVE A REFERENCE NUMBER BY RETURN FAX OR CAN BE OBTAINED REFERENCING THE FAX NOTIFICATION BY PHONE TUESDAY THROUGH FRIDAY DURING BUSINESS HOURS AT 909 396-2326. THE REFERENCE NUMBER SHALL BE RETAINED AS PROOF OF COMPLIANCE WITH THIS REQUIREMENT.

REFERENCE NO: 216019 NOTIFICATION DATE: 5-13-09

10. COMPLETE VERIFICATION INFORMATION IN CONDITION NO. 30 AND OBTAIN REQUIRED SIGNATURES, PRIOR TO COMMENCING EXCAVATION.

SECTION III – MONITORING

11. DURING THE EXCAVATION PROCESS, AN ORGANIC VAPOR ANALYZER (OVA) SHALL BE ON SITE AT ALL TIMES. THE OVA SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES AND SHALL BE CALIBRATED BY THE MANUFACTURER AT LEAST ONCE EVERY THREE MONTHS. THE CALIBRATION OF THE OVA SHALL BE VERIFIED USING CERTIFIED CALIBRATION GAS AT THE BEGINNING OF EACH WORKING DAY WITH THE PROCEDURES SPECIFIED BY THE MANUFACTURER. IF A CALIBRATION GAS OTHER THAN HEXANE IS USED, EACH MEASURED READING SHALL BE CORRELATED TO AND EXPRESSED AS HEXANE, USING EQUIVALENCY FACTORS PROVIDED BY THE MANUFACTURER.

12. ALL MONITORING SHALL BE CONDUCTED AT A DISTANCE NO MORE THAN 3 INCHES ABOVE THE SOIL SURFACE USING AN OVA DESCRIBED IN CONDITION NO. 11 ABOVE. **MONITORING SHALL BE CONDUCTED AT A MINIMUM FREQUENCY OF ONE READING FOR EVERY TWO CUBIC YARDS OF SOIL EXCAVATED, NOT TO EXCEED FIFTEEN MINUTES BETWEEN READINGS. ALL READINGS SHALL BE TAKEN NO LATER THAN THREE (3) MINUTES AFTER EACH LOAD OF SOIL IS EXCAVATED.**

13. ALL MONITORING SHALL BE CONDUCTED BY TRAINED PERSONNEL WHO ARE PROFICIENT IN THE USE OF THE HYDROCARBON MONITOR SELECTED FOR USE AT THIS SITE.

14. WRITTEN RECORDS OF OVA MONITORING AND CALIBRATIONS REQUIRED ABOVE SHALL BE KEPT IN A FORMAT APPROVED BY THE AQMD. THE APPROVED FORMAT IS INCLUDED ON PAGE 7 OF THIS PLAN. THE CERTIFICATION ON ALL RECORDS SHALL BE SIGNED AND DATED ON THE DAY THE MEASUREMENTS ARE OBSERVED.

15. UPON DETECTION OF VOC CONTAMINATED SOIL (READINGS 50 PPM OR GREATER), THE EXECUTIVE OFFICER OR DESIGNEE SHALL BE NOTIFIED **WITHIN 24 HOURS** OF THE FIRST DETECTION OF VOC CONTAMINATION. THE NOTIFICATION SHALL BE MADE BY FAXING THE NOTIFICATION FORM TO (909) 396-3342 OR CALLING (909) 396-2326. A REFERENCE NUMBER WILL BE FAXED BACK OR WILL BE ISSUED WHEN THE PHONE NOTIFICATION IS RECEIVED. ALL PHONE NOTIFICATIONS SHALL BE FOLLOWED BY MAILING THE NOTIFICATION FORM TO THE DISTRICT POSTMARKED **WITHIN 48 HOURS**. THE REFERENCE NUMBER WILL BE RETAINED AS PROOF OF COMPLIANCE WITH THIS REQUIREMENT.

REFERENCE NO:_____NOTIFICATION DATE:_____

SECTION IV – HANDLING AND STORAGE

16. ALL VOC-CONTAMINATED SOIL BELOW 1000 PPM SHALL BE STOCKPILED, COVERED WITH PLASTIC SHEETING AND STORED SEPARATELY FROM NON-VOC-CONTAMINATED SOIL, OR IMMEDIATELY TRANSPORTED TO A TREATMENT FACILITY.

17. A STOCKPILE SHALL NOT CONTAIN MORE THAN 400 CUBIC YARDS OF SOIL.

18. IF THE OVA MEASUREMENT IS GREATER THAN 50 PPMV BUT LESS THAN 1000 PPMV

    A) THE AFFECTED WORK AREA AND LOAD OF SOIL SHALL BE SPRAYED WITH WATER AND/OR APPROVED VAPOR SUPPRESSANT.

    B) CONTAMINATED SOIL IN STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING WHICH OVERLAP A MINIMUM OF TWENTY-FOUR INCHES AND ARE SECURED SO THAT NO PORTION OF THE CONTAMINATED SOIL IS EXPOSED TO THE ATMOSPHERE. IN THE COURSE OF HANDLING THE STOCKPILE, ONLY THE WORKING FACE OF THE STOCKPILE MAY BE UNCOVERED.

19. IF THE OVA MEASUREMENT EQUALS OR IS GREATER THAN 1000 PPM, STOP EXCAVATION TO NOTIFY THE DISTRICT IMMEDIATELY OR WITHIN ONE HOUR OF DETECTION AND,

    A) THE AFFECTED SOIL AND WORKING AREA SHALL BE IMMEDIATELY SPRAYED WITH WATER OR AN APPROVED VAPOR SUPPRESSANT, AND EITHER:

    B) THE CONTAMINATED SOIL EXCAVATED SHALL BE IMMEDIATELY PLACED IN AQMD APPROVED SEALED CONTAINERS, OR,

    C) DIRECTLY LOADED IN TRUCKS, SPRAYED WITH ADDITIONAL WATER OR APPROVED VAPOR SUPRESSANT, COVERED, AND TRANSPORTED IMMEDIATELY OFF SITE AS PER CONDITION #25 OF THIS PLAN, OR,

    D) OTHER ALTERNATIVE STORAGE METHODS WITH PRIOR WRITTEN APPROVAL FROM THE AQMD.

20. DURING EXCAVATION, THE ONLY EXPOSED VOC CONTAMINATED SOIL SHALL BE RESTRICTED TO THE IMMEDIATE WORKING AREA OF THE SITE OR STOCKPILE. ALL OTHER PORTIONS OF THE STOCKPILE SHALL BE COVERED WITH PLASTIC SHEETING, WITH SEAMS, WHICH OVERLAP A MINIMUM OF TWENTY-FOUR INCHES AND ARE SECURED WITH DUCT TAPE. ANY EXPOSED VOC-CONTAMINATED SOIL SURFACES (WORK FACE) SHALL BE KEPT MOIST WITH WATER OR OTHER APPROVED SUPPRESSANTS AT ALL TIMES, AND SHALL BE RE-COVERED DURING PERIODS OF INACTIVITY LONGER THAN ONE (1) HOUR. AT THE END OF EACH WORKING DAY, ALL STOCKPILES SHALL BE COMPLETELY COVERED AND SECURELY ANCHORED TO PREVENT ANY EXPOSURE OF SOIL TO THE ATMOSPHERE.

21. ONCE COVERED WITH PLASTIC SHEETING, STOCKPILES SHALL REMAIN UNDISTURBED UNTIL REMOVED FROM SITE.

22. DAILY INSPECTIONS SHALL BE CONDUCTED OF ALL COVERED VOC-CONTAMINATED STOCKPILES TO ENSURE THE INTEGRITY OF THE PLASTIC COVER. SUCH INSPECTIONS SHALL INCLUDE A VISUAL INSPECTION OF ALL SEAMS AND PLASTIC COVER SURFACES. ANY HOLES, TEARS OR ANY OTHER POTENTIAL SOURCES OF FUGITIVE VOC EMISSIONS SHALL BE REPAIRED IMMEDIATELY. DAILY RECORDS SHALL BE MAINTAINED TO ENSURE COMPLIANCE WITH THIS CONDITION.

23. VOC CONTAMINATED SOIL SHALL NOT BE SPREAD ON-SITE OR OFF-SITE. THIS INCLUDES ANY UNNECESSARY MOVEMENT OR AGITATION OF SOIL THAT MAY CAUSE THE UNCONTROLLED EVAPORATION OF VOC'S INTO THE ATMOSPHERE, INCLUDING THE RESHAPING OR RELOCATION OF STOCKPILES.

SECTION V – SOIL REMOVAL AND DISPOSAL

24. ALL EXCAVATED VOC-CONTAMINATED SOIL SHALL BE REMOVED FROM THE SITE WITHIN **THIRTY (30) DAYS** OF ITS EXCAVATION.

25. ALL VOC-CONTAMINATED SOIL REMOVED FROM THE SITE SHALL COMPLY WITH THE FOLLOWING:

    A). BE TRANSPORTED TO AN APPROVED TREATMENT/DISPOSAL FACILITY. IT SHALL BE THE RESPONSIBILITY OF THE PLAN HOLDER TO ENSURE THAT THE RECEIVING TREATMENT/DISPOSAL FACILITY HAS RECEIVED APPROVAL FROM THE APPROPRIATE ENVIRONMENTAL OVERSIGHT AGENCIES TO HANDLE AND TREAT VOC CONTAMINATED SOILS.

    B). WHEN LOADING IS COMPLETED AND DURING TRANSPORTATION, NO EXCAVATED MATERIAL SHALL EXTEND ABOVE THE SIDES OR REAR OF THE TRUCK OR TRAILER.

    C). PRIOR TO COVERING/TARPING, LOADED CONTAMINATED SOIL SHALL BE WETTED BY SPRAYING WITH MIST INHIBITORS.

    D). THE TRUCK OR TRAILER SHALL BE COMPLETELY COVERED/TARPED PRIOR TO LEAVING THE SITE TO PREVENT PARICULATE EMISSIONS TO THE ATMOSPHERE.

    E). THE EXTERIOR OF THE TRUCKS (INCLUDING THE TIRES) SHALL BE CLEANED OFF PRIOR TO THR TRUCKS LEAVING THE EXCAVATION SITE.

SECTION VI - RECORDS AND REPORTING

26. A WRITTEN REPORT SHALL BE PROVIDED TO THE AQMD WITHIN 30 DAYS OF INITIAL DETECTION OF CONTAMINATED SOIL, WHICH INCLUDES THE FOLLOWING INFORMATION.

    A) THE STATUS OF THE EXCAVATION PIT, AND ANY VOC CONTAMINATED SOIL REMAINING ON SITE.

    C) A BRIEF SUMMARY INDICATING IF ADDITIONAL CLEAN UP EFFORTS ARE NECESSARY, THE ADDITIONAL QUANTITY OF VOC CONTAMINATED SOILS TO BE EXCAVATED AND THE PROJECTED SCHEDULE OF THE EXCAVATION.

27. RECORDS OF DISPOSAL SHALL BE MAINTAINED FOR ALL VOC-CONTAMINATED SOIL REMOVED FROM THIS SITE. SUCH RECORDS SHALL BE CLEARLY LABELED "**SCAQMD RULE 1166-VOC CONTAMINATED SOIL**" AND SHALL INCLUDE THE IDENTIFICATION AND THE LOCATION OF, 1) THE GENERATOR, 2) TRANSPORTER AND 3) RECEIVING FACILITY. IN ADDITION, SUCH RECORDS SHALL BE SIGNED AND DATED BY EACH OF THE ABOVE PARTIES INDICATING RECEIPT OR RELINQUISHMENT OF THE VOC-CONTAMINATED SOIL AT THE TIME CUSTODY IS TRANSFERRED.

28. RECORDS OF DISPOSAL OF VOC-CONTAMINATED SOIL SHALL BE MAINTAINED ON SITE DURING THE EXCAVATION AND LATER MAINTAINED FOR A PERIOD OF TWO (2) YEARS. THE RECORDS SHALL BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.

29. WITHIN **THIRTY (30) DAYS** AFTER THE EXCAVATION AT THE SITE IS COMPLETED, THE WRITTEN RECORDS UNDER CONDITIONS NO. 14, 22, AND 27 SHALL BE SUBMITTED TO THE AQMD AT THE FOLLOWING ADDRESS.

    SOUTH COAST AIR QUALITY MGMT DISTRICT
    ENGINEERING & COMPLIANCE DIVISION
    TOXICS & WASTE MANAGEMENT UNIT
    (RULE 1166 COMPLIANCE)
    21865 E. COPLEY DR.
    DIAMOND BAR, CA. 91765-4182

SECTION VII – VERIFICATION AND SIGNATURE

30. THIS PLAN IS NOT VALID UNTIL ALL PARTIES HAVE REVIEWED AND SIGNED THE VERIFICATION STATEMENT BELOW.

Site Name		Type of Business	
VERIZON Fleet Facility		Communications	
Address	City		Zip
5010 AZUSA Canyon Rd.	IRWINDAL CA		91706
Responsible Party (Owner/Operator)		Phone	
VERIZON CORPORATE SERVICES GROUP		909-620-5962	
Address	City		Zip
280 S. LOCUST ST. CA/OSHJ	PEMENA		91766

I CERTIFY THAT I HAVE REVIEWED AND UNDERSTAND THE CONDITIONS CONTAINED WITHIN THIS PLAN. IN SIGNING BELOW, I ACKNOWLEDGE THAT UNDER THE PROVISIONS OF RULE 1166, I CAN BE HELD RESPONSIBILE FOR THE REQUIREMENTS SET FORTH IN THIS PLAN.

Responsible Party	Responsible Party Signature	Date Signed
General Contractor FAIL Environmental	General Contractor Signature	Date Signed 5-18-09
Excavation Contractor FAIL Environmental	Excavation Contractor Signature	Date Signed 5-18-09
Environmental Consultant Lou Nielsen	Environmental Consultant Signature	Date Signed 5/18/09

DEFINITIONS

Excavation	Is the process of digging out and removing materials including any material necessary to that process such as the digging out and removal of asphalt or concrete necessary to expose, dig out and remove known VOC contaminated soil.
Organic Vapor Analyzer (OVA)	For the purposes of this plan, an OVA is an hydrocarbon monitor utilizing flame ionization, photo ionization or other analytical methods complying with 40 CFR PART 60 APPENDIX A, EPA METHOD 21 SECTION 3, "DETERMINATION OF VOLATILE ORGANIC COMPOUND LEAKS, MONITORING INSTRUMENT SPECIFICATIONS. The monitor shall be capable of being calibrated using hexane at a range of 0 parts per million by volume (PPMV) to 50 PPMV, and at a detection range of at least 30 PPMV to 1100 PPMV
Responsible Party	For the purposes of this plan, Responsible Party is the party financially responsible for initiating the excavation. This may include the property owner or the tank operator. This excludes contractors working for the property owner or operator, and any other party that lacks the direct authority to immediately treat all VOC contaminated soils generated at the excavation site.
VOC Contaminated Soil	Is soil that registers a concentration of 50 PPM or greater of volatile organic compounds as measured before suppression materials have been applied and at a distance of no more than three inches from the surface of the excavated soil with an organic vapor analyzer calibrated with hexane.
Volatile Organic Compound (VOC)	Is any volatile compound of carbon, excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, and exempt compounds. Exempt compounds areas defined in Rule 102 – Definitions of Terms.

Once issued, this plan is subject to further review by the AQMD and may be revoked if excavation activities are found in violation of plan conditions or AQMD's Rules and Regulations. Failure to comply with one or more of the conditions contained within this plan constitutes a violation of Rules 221 and 1166.

Other governmental agencies may require approval before any excavation begins. It shall be the responsibility of the applicant to obtain that approval. The South Coast Air Quality Management District shall not be responsible or liable for any losses because of measures required or taken pursuant to the requirements of this approved Rule 1166 Contaminated Soil Mitigation Plan.

Questions regarding this plan should be directed to Ranjit Vishwanath at (909) 396-2682.

Rv11/17/04

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Verizon Corporate Services Group 3347 Michelson Drive, # 200 Irvine, CA 92612	
Reference No(s). 216019	

Plan #: 498435 I.D.#: 159709

Monitor Information	Calibration Data 5/18/09	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: Q RAE 3000	Gas: 100 PPM HEXANE	Name: Lou Niebla SHAW	Total Cubic Yds (This page)	Concrete 13.15
Model: Mini RAE 3000	Date 5/18/09	Company: SHAW	Total Cubic Yds (To date)	
Type PID	By Q RAE	Phone: 714-925-9899	Removed from Site (To date)	

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
12:15	0.6	Hexane	NA	North EAST of man way	1458	0.8	Hexane	NA	
12:30	0.8	Hexane	GAS NA	3' around North vent Man Way	15.00		Hexane	NA	
12:45	0.6	Hexane	NA	North of TANK 3' NEX TS Asphalt				A	
13:00	0.6	Hexane	NA	Center of tank					
1315	0.8	Hexane	NA	2' North of South Man way					
13:16	0.6	Hexane	NA	GAS vent 2" Next to Bldg					
13:30	1.2	Hexane	NA	3' North of South Manway					
13:45	0.9	Hexane	NA	2" vent line Trench Next to Bldg					
1348	1.0	Hexane	NA	South of South Man Way					
1400	1.0	Hexane	NA	2" vent line Trench Next to Bldg					
1438	0.8	Hexane	NA	2" VENT Line Trench Next to Bldg					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 5-18-09

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Verizon Corporate Services Group 3347 Michelson Drive, # 200 Irvine, CA 92612	
Reference No(s). 216019	

Plan #: 498435 I.D.#: 159709

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: QRAE systems	Gas: 100ppm Hexane	Name: Khaljani Lee	Total Cubic Yds (This page)	.75 concrete
Model: QRAE 3000	Date 5-19-09	Company: Shaw	Total Cubic Yds (To date)	13.9 concrete 210.65 (Dirt)
Type P.I.D	By [signature]	Phone: 702-497-3836	Removed from Site (To date)	13.9 concrete

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
06:15	.5	Hexane	N/A	Vent line 2' Nth Tank Between Fill Vent	09:00	1.1	Hexane	N/A	North fill line/ Trench
06:30	1.7	Hexane	N/A	Middle of tank	0915	0.8	Hexane	N/A	North fill line Trench
06:45	2.8	Hexane	N/A	North side of Tank.	0930	1.3	Hexane	N/A	Trench/pump Equipment
07:00	0.9	Hexane	N/A	North side of Tank	0945	1.1	Hexane	N/A	Trench/N. Tank
07:15	2.9	Hexane	N/A	North side of tank	1000	0.8	Hexane	N/A	N. Tank
0730	1.1	Hexane	N/A	North Side Tank	1015	2.2	Hexane	N/A	N. Tank-Fill point
0745	1.2	Hexane	N/A	North side Tank	10:45	1.1	Hexane	N/A	N. Tank-Fill point
0800	0.8	Hexane	N/A	Stockpile	11:00	0.9	Hexane	N/A	N. Tank Fill point
0815	0.6	Hexane	N/A	Stockpile	11:15	1.2	Hexane	N/A	N. Tank Fill point
0830	0.7	Hexane	N/A	North of tank	11:30	1.4	Hexane	N/A	N. Tank Fill point
0845	0.6	Hexane	N/A	North of tank/ Trench	11:45	1.1	Hexane	N/A	N. Tank Fill point

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: [signature] DATE: 5-19-09

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Verizon Corporate Services Group 3347 Michelson Drive, # 200 Irvine, CA 92612	
Reference No(s).	

Plan #: 498435 I.D.#: 159709

Monitor Information	Calibration Data	Monitoring Personnel	Excavation Summary (Upon completion of each page)	
Brand: QRAE systems	Gas: Hexane 100ppm	Name: Khalfani Lee	Total Cubic Yds (This page)	.75 concrete
Model: RAE systems	Date 5-19-09	Company: Shaw	Total Cubic Yds (To date)	13.9 concrete 210.69(Dirt)
Type PID	By	Phone: 702-497-3836	Removed from Site (To date)	13.9 concrete.

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
1230	1.3	Hexane	N/A	N. Side of tank Fill side					
1245	1.9	Hexane	N/A	N. Side of vent side					
1300	2.1	Hexane	N/A	N side of vent side					
1315	2.9	Hexane	N/A	middle of tank					
1330	3.1	Hexane	N/A	2' from vent side					
1345	4.1	Hexane	N/A	1' N of fill vent side					
1400	4.1	Hexane	N/A	R. V of fill					
14:15	1.8	Hexane	N/A	Middle of tank					
14:30	1.0	Hexane	N/A	N. Vent side					
14:45	0.6	Hexane	N/A	N. vent side					
15:00	0.7	Hexane	N/A	N. Vent side					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: _____ DATE: 5-19-09

SECTION VII – VERIFICATION AND SIGNATURE

30. THIS PLAN IS NOT VALID UNTIL ALL PARTIES HAVE REVIEWED AND SIGNED THE VERIFICATION STATEMENT BELOW.

Site Name	Type of Business	
VERIZON FLEET Facility	Service	
Address: 5010 AZUSA Canyon Rd.	City: IRWindal CA.	Zip: 91706
Responsible Party (Owner/Operator): VERIZON CORPORATE SERVICES GROUP	Phone: 909-620-5962	
Address: 280 S. LOCUST ST. CAROSHJ	City: POMONA	Zip: 91766

I CERTIFY THAT I HAVE REVIEWED AND UNDERSTAND THE CONDITIONS CONTAINED WITHIN THIS PLAN. IN SIGNING BELOW, I ACKNOWLEDGE THAT UNDER THE PROVISIONS OF RULE 1166, I CAN BE HELD RESPONSIBILE FOR THE REQUIREMENTS SET FORTH IN THIS PLAN.

Responsible Party: VERIZON CA INC.	Responsible Party Signature: MASOOD CHOUDHURY	Date Signed: 5/15/09
General Contractor: TAIT ENVIRONMENTAL	General Contractor Signature	Date Signed: 5/18/09
Excavation Contractor: TAIT ENVIRONMENTAL	Excavation Contractor Signature	Date Signed: 5/18/09
Environmental Consultant: SHAW E+I	Environmental Consultant Signature	Date Signed: 5/18/09

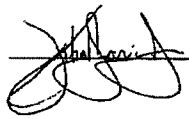
DEFINITIONS

Excavation	Is the process of digging out and removing materials including any material necessary to that process such as the digging out and removal of asphalt or concrete necessary to expose, dig out and remove known VOC contaminated soil.
Organic Vapor Analyzer (OVA)	For the purposes of this plan, an OVA is an hydrocarbon monitor utilizing flame ionization, photo ionization or other analytical methods complying with 40 CFR PART 60 APPENDIX A, EPA METHOD 21 SECTION 3, "DETERMINATION OF VOLATILE ORGANIC COMPOUND LEAKS, MONITORING INSTRUMENT SPECIFICATIONS. The monitor shall be capable of being calibrated using hexane at a range of 0 parts per million by volume (PPMV) to 50 PPMV, and at a detection range of at least 30 PPMV to 1100 PPMV
Responsible Party	For the purposes of this plan, Responsible Party is the party financially responsible for initiating the excavation. This may include the property owner or the tank operator. This excludes contractors working for the property owner or operator, and any other party that lacks the direct authority to immediately treat all VOC contaminated soils generated at the excavation site.
VOC Contaminated Soil	Is soil that registers a concentration of 50 PPM or greater of volatile organic compounds as measured before suppression materials have been applied and at a distance of no more than three inches from the surface of the excavated soil with an organic vapor analyzer calibrated with hexane.
Volatile Organic Compound (VOC)	Is any volatile compound of carbon, excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, and exempt compounds. Exempt compounds areas defined in Rule 102 – Definitions of Terms.

Daily Field Notes

Project Name: VERIZON FLEET
Date: 5/18/09
Name: Lou Nielsen / Khalfani Lee

7:10 ON site Calib PID PID Background = 0.1 PPM
(HEXANE GAS 100 PPM Calib.)
(09:00) No detections above .3 PPM
(09:15) No detections above .3 PPM
(09:30) Crew break - no work
(09:45) No detections above 2.3 ppm
(10:50) Removed Gas Pump 7.8 PPM ~~Blow out~~ line with AIR Back To TANK From GAS PUMP ISLAND.
Crew Bread until Back hoe FOR SKID Loader Show up at around 11:00
(12:00) Backhoe arrived — Hertz Rentals.
(12:16) Digging began = No detections above 0.6 (Possible vehicular exh.)
(12:30) No detections above 0.8
(12:19) Trench Plate Rental Co. Arrived to install plating for Vent line trench.
(12:36) Tait arrived w/ New Holland L170 ("Bobcat" style loader)
(12:45) No detections above 0.6 detected.
(12:46) Crew on break
(13:00) Crew begins work - No detections above 0.6.
(13:15) No detection above 0.8
(13:36) No detection above 1.2
(13:45) No detection above 0.9 - Concrete removed - (Monitoring done)
(14:00) Vent line (2") 1.0
(14:15) Steel Plates (Traffic Plates) Installed.
(14:20) Digging Stopped all remaining Plates layed over Trench (Vent Line)
(14:25) Plans Changed Trench digging continued.
(11:38) No detections above 0.8 (Vent trench)

Signature: 

Daily Field Notes

Project Name: Verizon Fleet

Date: ~~5/19/09~~ 5/20/09 (RD)

Name: Khalfani Jones

0600- Cleaning continued (Debris removed, dirt moved/brushed from tank - No detections above 0.3

0615 - Cleaning continued - No detections above 0.4

0630 - Cleaning continued - No detections above 0.4

0645 - Cleaning continued - No detections above 0.5

0700 - Cleaning continued - Digging begins - No detections above 0.6

0715 Cleaning/digging continued - No detections above 0.5

0730 Cleaning/digging continued - No detections above 0.5 - "Nieto & Sons Truck/Trailer arrives." 0733

0745 Cleaning/digging continued - No detections above 0.6 - "Nieto & Sons Generator Vac-Tron arrives 0747"

0800 Cleaning/digging continued - No detections above 0.8 Truck getting in position.

0815. Tank cleaning begins - No readings above 1.8

0830. Tank being prepped for pull - No detections above 1.0 - Tank Size - 12K

0845. Tank being prepped for pull - No detections above 0.9

0900 Tank being prepped for pull - No detections above 1.0

0915 Tank being Pressure washed/Cleaned - No detections above 0.6

0917 Nancy (Chemist) - arrives (County - for Certification) (Crane arrives Cranco 0919 - Geno)

0930 Tank being inspected - No detections above 0.8

0945 No detections above 0.9

1000 Crane taking position - No detections above 1.8

Crane secured to tank - flat bed taking position.

1015 No detections above 1.3

1030 No detections above 3.1

1045 No detections above 1.7 - Tank being pulled

11:00 Tank Broken free - above Ground. - Being loaded - Fire Marshal offsite. 0.9

11:08 - Secure to trailer 11:11 - Tanks away 0.3

Signature:

Daily Field Notes

Project Name: Verizon Fleet
Date: 5-18-09
Name: Khalfani Lee / Lou Nielson

(14:51) No detections above (0.8) (Trench-vent line)
(15:00) No detections above (0.9) (Trench-vent line)
(15:00) Done digging/taking break - a 3rd plate installed.
5-19-09 - 0600 - JSA and prep work began. Tait onsite.
Khalfani Lee 0620 - Heavy equip. in position.
0630 - Work began. - 0.5 ppm
0645 - Digging continued - 2.8 ppm around N side of tank.
0700 - No detections above 0.9. - Stockpile clear.
0708 - Dirt truck arrives - Mike Johnson
0715 - No detections above 2.7 - Stockpile clear
0730 - No detections above 1.1 - Stockpile Clear
0745 - No detections above 1.2 - Stockpile clear/backhoe began loading truck
4th Crew member from Tait arrives - Crew meeting - loading debris.
0830 - Trenching continued No detections above 0.8. - Stockpile Clear
0836 - Dirt truck (Mike Johnson) leaves.
0845 - Trenching continued No detections above 0.6 - Stockpile Clear
0900 - No detections above 1.1 - Stockpile Clear. - Another Tait Crew arrives (Randy)
0915 - No detections above 0.8 - Stockpile Clear. - Mike Johnson Truck arrives - loading.
0920 - Another Tait Crew/MGR arrives (6) (Brandon)
0930 - No detections above 1.3 ppm. - (Brandon offsite)
0931 - Dirt Truck Leaves (Mike Johnson Trucking)
0945 - No detections above 1.1 - Stockpile Clear
1000 - No detections above 0.8 - Stockpile Clear - Digging around tank begins.
1015 - No detections above 2.2 - around N. of tank - Stockpile Clear
10:20 - Digging stopped - Randy offsite (Tait)
1045 - Digging Cont. 1.1 - No detections above.

Signature:

Appendix G
South Coast AQMD Rule 1166 Notification Form

Shaw® Shaw Environmental, Inc.

Jim Cirillo
Shaw Environmental, Inc.
3347 Michelson Drive, Suite 200
Irvine, CA 92612
949.660.5317
Fax: 949.474.8309

To: SCAQMD – Notifications	**From:** Jim Cirillo
Fax: 909-396-3342	**Pages:** 2
Phone: 909-396-2326	**Date:** 5/13/09
Project Number/Cost Code:	**CC:**
RE: Rule 1166 Notification	

☐ **Urgent** ☒ **For Review** ☐ **Please Comment** ☒ **Please Reply** ☐ **Please Recycle**

Please see the enclosed Rule 1166 notification form being submitted under Mitigation Plan No. **498435** and AQMD ID No. **159709**.

The site is located at **5010 Azusa Canyon Road, in Irwindale.**

Please fax a reference number to my attention at 949-474-8309.

Thanks.

Jim Cirillo

Confidentiality Notice

This information contained in this fax is intended for the use of the individual or entity named and may contain information that is confidential, privileged and/or otherwise exempt from disclosure under applicable law. If you are not the intended recipient, any dissemination, distribution or copying of this communication is strictly prohibited. If you received this communication in error, please notify us immediately by telephone and return the original fax to us at the address shown. Thank you! Revised 5/02/02

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
Rules 203 or R1166 NOTIFICATION FORM

Use this form to notify of known or suspect VOC contaminated soil Excavation, Handling and/or Monitoring; Mitigation/Treating of VOC contaminated soil; and VOC Vapor Extraction. See instructions on the back of this form.
For questions check our website at www.aqmd.gov or call the Hotline at (909) 396-2326.
FAX this form to 909-396-3342 and within 48 hours of fax MAIL the original form and fee to:
SCAQMD - 1166/203 Notifications, File # 55641, Los Angeles, CA 90074-5641
This form will be faxed back to you with a **REFERENCE** number if you provide a **FAXBACK** # here: 909-474-8309 ~~909-475-5433~~

APPLICATION NO.	RECEIVED BY	POSTMARK	REFERENCE

COMPLETED BY JIM CIRILLO		Company SHAW ENVIRONMENTAL		Phone #	949-660-5317
Date 5/13/09	Check # 2225	Amount $ 52.06		Project # 135823	
NOTIFICATION TYPE	(Original (Initial))	Revision (prior reference #)		Cancellation (prior reference #)	
PROJECT TYPE (circle one only)	(R1166 Soil / Tank Excavation)	Soil Vapor Extraction (SVE)	VOC Contaminated Soil Mitigation / Treating	Reporting > 50 ppm VOC Contaminated Soil	Reporting > 1000 ppm VOC Contaminated Soil

Provide the R1166 mitigation plan name and number when reporting soil excavation, tank removal or contaminated soil	For reporting VOC > 50 or 1000 ppm only
Mitigation Plan issued to: SHAW ENVIRONMENTAL	Date & time of VOC exceedance
Plan # 498435	Highest VOC reading in ppm

Provide the Soil Vapor Extraction unit permit name and number when reporting use of an SVE unit:

Permit issued to: Permit #

Distance to nearest sensitive receptor in feet (see your permit condition requirements)

PROJECT DATES	START 5/18/2009	END 5/22/2009	WORK SHIFT (day, swing, night) DAY	
SITE CONTRACTOR INFORMATION	AQMD ID # 159709	CSLB License # 815620	Phone # 949-660-5317	
Name SHAW ENVIRONMENTAL		Address 3347 MICHELSON DRIVE, SUITE 200		
City IRVINE	Zip 92612	Site supv name & phone # JIM CIRILLO / 949-660-5317		
SITE INFORMATION	Site Name VERIZON - IRWINDALE FLEET FACILITY		Site AQMD ID #	
Site Address	5010 AZUSA CANYON ROAD		Cross Street EAST ARROW HIGHWAY	
Site City IRWINDALE	Zip 91706	Site contact name & phone # KAHLFANI LEE / 818-652-5811		

TANK INFORMATION	**# OF TANKS**	**EACH**	**CAPACITY (gal)**	**MATERIAL STORED IN TANK**	**ABOVE GROUND? (Y/N)**
Steel	1	@	12,000	~~DIESEL~~ GASOLINE (JA 5/20/09)	N
		@			
Example	*3 tanks*	@	*10,000*	*Gasoline*	*no*

INFORMATION CERTIFICATION I certify that the above information is complete and accurate

Company Name SHAW ENVIRONMENTAL | Print Name JIM CIRILLO | Signature James Cirillo | Date 5-13-09

COMMENTS

****
*** TX REPORT ***
****

TRANSMISSION OK

TX/RX NO	1096
CONNECTION TEL	19093963342
CONNECTION ID	
ST. TIME	05/13 16:55
USAGE T	00'54
PGS. SENT	2
RESULT	OK

Shaw® Shaw Environmental, Inc.

Jim Cirillo
Shaw Environmental, Inc.
3347 Michelson Drive, Suite 200
Irvine, CA 92612
949.660.5317
Fax: 949.474.8309

To: SCAQMD – Notifications **From:** Jim Cirillo

Fax: 909-396-3342 **Pages:** 2

Phone: 909-396-2326 **Date:** 5/13/09

Project Number/Cost Code: **CC:**

RE: Rule 1166 Notification

☐ **Urgent** ☒ **For Review** ☐ **Please Comment** ☒ **Please Reply** ☐ **Please Recycle**

Please see the enclosed Rule 1166 notification form being submitted under Mitigation Plan No. **498435** and AQMD ID No. **159709.**

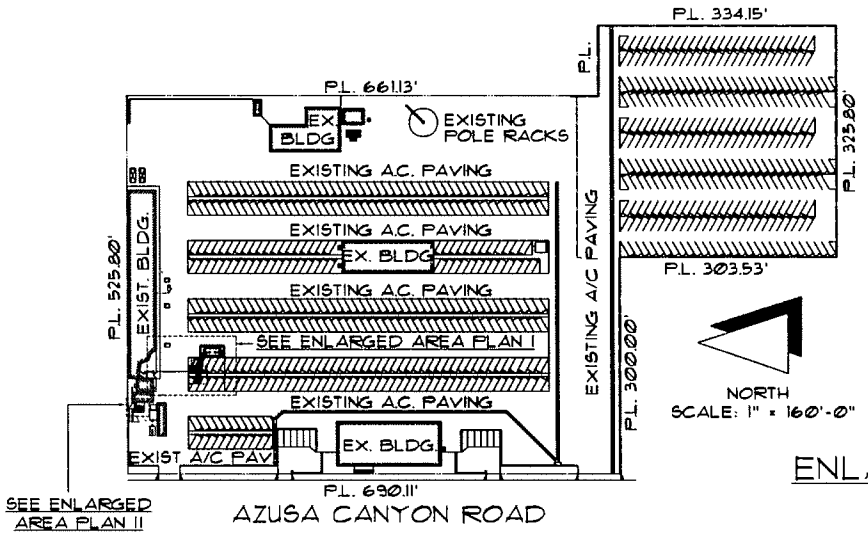
The site is located at **5010 Azusa Canyon Road, in Irwindale.**

Please fax a reference number to my attention at 949-474-8309.

Thanks.

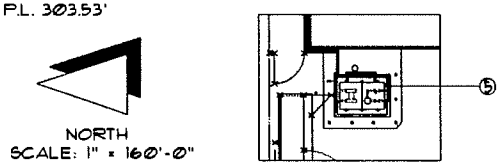
Jim Cirillo

Appendix H
Site Specific Monitoring Plan



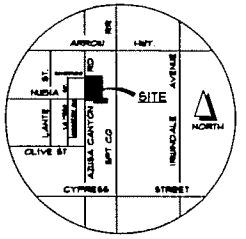
SITE PLAN

SCALE: 1" = 160'-0"



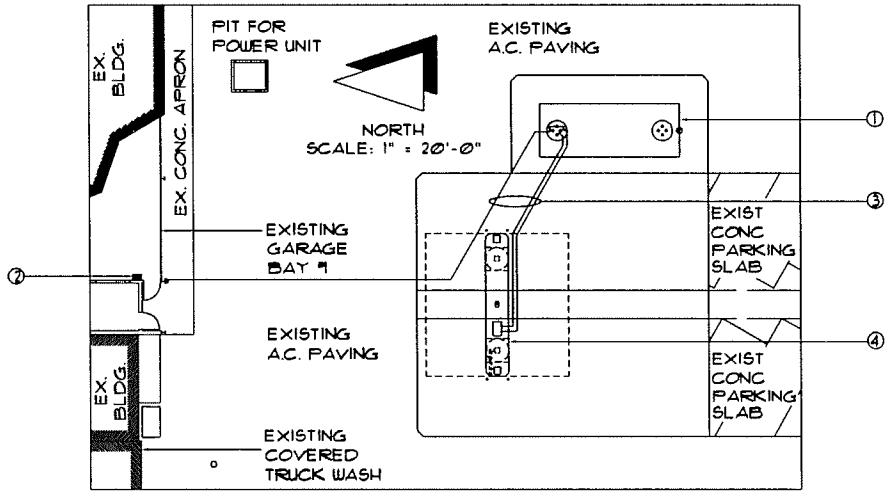
ENLARGED AREA PLAN II

SCALE: 1" = 20'-0"



VICINITY MAP

NO SCALE



ENLARGED AREA PLAN I

SCALE: 1" = 20'-0"

LOCATION NOTES:

① 12,000 GALLON JOOR DOUBLE-WALL STEEL COMPOSITE TANK.

② VEEDER-ROOT TLS-350 TANK MONITOR SYSTEM.

③ TOTAL CONTAINMENT ENVIROFLEX PRIMARY & SECONDARY SUPPLY & RETURN PIPING. SCOTCH COATED SCH.40 BLACK IRON PRIMARY & FIBERGLASS SECONDARY RETURN & VENT PIPING.

④ REINFORCED CONCRETE FUELING ISLAND WITH GASBOY DUAL HOSE GASOLINE DISPENSER.

⑤ LRS, INC. 2x245 GALLON DOUBLE-WALL WASTE OIL / NEW OIL ABOVEGROUND STORAGE TANK.

TAIT & ASSOCIATES INC.
1100 Town & Country Road
Suite 1200
Orange, California 92868
(714) 560-8200
(714) 560-8211 Fax

PROJECT: SITE SPECIFIC MONITORING PLAN
IRWINDALE PLANT YARD
5010 No. AZUSA CANYON ROAD
IRWINDALE, CA 91706
DRAWN BY: RICO
DATE: 04/26/96

ISSUE
CALIFORNIA ☒ HAWAII ☐ NORTHWEST ☐
GTE T O
GTE W A
GTE GT1

K:GTE\GT1107A\PY-IRWIN

Table 1
Soil Sample Analytical Results
Verizon Plant Yard - Irwindale Facility
5010 Azusa Canyon Road
Irwindale California

Sample I.D.	Sample Location [1]	Sample Depth (bsg)	Date Collected	TPH-D (C10-C24)	TPH-G (C6-C12)	Benzene	Toluene	Ethylbenzene	Xylenes	DIPE	ETBE	MTBE	TAME	TBA [2]	Methanol	Ethanol
				(all results reported in milligrams per kilogram)												
SS-01	Tank Excavation Floor (vent side-north end)	2 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-02	Tank Excavation Floor (vent side-north end)	4 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-03	Tank Excavation Floor (fill side-south end)	2 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-04	Tank Excavation Floor (fill side-south end)	4 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-05	Piping Trench Floor (east end)	4 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-06	Piping Trench Floor (east end)	6 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-07	Piping Trench Floor (west end)	4 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-08	Piping Trench Floor (west end)	6 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SS-09	Dispenser Floor (west side)	4 feet	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SP-01	Stockpile	NA [3]	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SP-02	Stockpile	NA [3]	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SP-03	Stockpile	NA [3]	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$
SP-04	Stockpile	NA [3]	05/20/09	$ND_{1.0}$	$ND_{0.1}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.001}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.002}$	$ND_{0.020}$	$ND_{0.500}$	$ND_{0.500}$

Notes:
1 - see Figure 3 for UST location
2 - results for TBA are reported as ND to the laboratory's method detection limit
bsg - below surface grade
DIPE - diisopropyl ether
ETBE - ethyl tertiary-butyl ether
MTBE - methyl tertiary butyl ether
J - result less than reporting limit but greater than method detection limit and is therefore estimated
NA - not applicable
ND_x - not detected above "x" laboratory detection limits
TAME - tertiary amyl-methyl ether
TBA - tertiary butyl alcohol
TPH-D - total petroleum hydrocarbons as diesel (carbon chain range C10 to C24)
TPH-G - total petroleum hydrocarbons as gasoline (carbon chain range C6 to C12)
UST - underground storage tank

```
TRANS: INSP          HMS INSPECTION DISPLAY/UPDATE          OPER: E618168
 PROG: PWC160                                              08/05/16 12:47:41

  ACTION: B (A)DD  (C)HANGE  (D)ELETE  (B)ROWSE  A(S)SC # BROWSE
  FILE #: 003755 061982 NAME: FRONTIER CALIFORNIA INC        SEC? N  STAT: OPEN
STREET #: 5010  FR:       DR:     NAME: AZUSA CANYON         SF: RD   UN:
    CITY: IRWINDALE                ZIP: 91706 1830  AREA: 3S  TEL:
  INSP #: I 000839408    INSP TYPE: I SCHI    INSP DT: 080516   INSP DISP: FOLL
  ASSC #: _ _________  ASSC # TYPE:         ASSC # DT:         ASSC # DISP:

INSP PROC: __________      SAMP REQ? _     SELF MONT? _

INSP INFO: SCHEDULED_INSPECTION_OF_CLARIFIER._CONSENT:MASSOUD_CHOUDHURY._______
           ____________________________________________________________________

  RESULTS: SB_&_3RD_STAGE:PH=6,_NO_SETTLE_OR_FLOATS._CARWASH_DRAINS_CLEAN._____
           ISSUED_NOVC_FOR_CHANGE_IN_OWNER_FROM_VERIZON_TO_FRONTIER._____________
           # OF VIOLS FOUND:   0                COMPLY DT:

ASSIGN DT: ______             DUE DT: ______          ASSIGN TO: ______ ______
 START DT: ______           COMP DT: 080516            COMP BY: 47913_ DLG___
 DMS LINK: HTTP://PWIIS01/SPDMS/HMS.ASPX?DOCNO=000839408&DOCTYPE=INSP
                                    LAST TRAN/DATE/OPER: INSP 080516 E618168
 END OF ENTRIES
```

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
"To Enrich Lives Through Effective And Caring Service"

www.CleanLA.com

ENVIRONMENTAL PROGRAMS DIVISION

☐ NOTICE ☐ NOTICE OF NON COMPLIANCE ☑ NOTICE OF VIOLATION ORDER TO COMPLY

Date 8/5/16
Owner/Operator Massoud Choudhury
Site Name FRONTIER
Site Address 5010 Azusa Canyon Rd.
Mailing Address

Permit To 9136 * Required *
Site/File 3755-I ~~03882~~ 61982
Violation # 839409
City, Zip Irwindale 91706
City, Zip

INDUSTRIAL WASTE PERMIT REQUIRED

It has come to the attention of this office that you are utilizing or are presently responsible for the maintenance of Industrial Waste Treatment or Disposal Facilities at the subject site. Industrial Waste Disposal Permits (IWDP) are not transferable from owner to owner, or from one location to another and as the successor in interest or title, you are required to obtain a new IWDP. Section 20.36.120, Section 20.36.130

[ ] You are required to apply for a revised IWDP due to change in method and point of disposal, volume discharged, or change in character of the waste discharged. Section 20.36.060
[ ] You are required to obtain a Closure Permit. Section 20.36.220
[ ] You are hereby directed to correct the following violation(s) of: [ ] Los Angeles County Code, Title 20 and/or conditions and limitations of Industrial Waste Disposal Permit No. _____
[ ] City of _____ Municipal Code/Ordinance _____.
[ ] Your attention is directed to your noncompliance with the Notice(s) issued on: _____
Violation No(s). V_____.

You are required to submit the items checked below within 15 days from the date of this Notice, to continue use of your facility:

[✓] Complete and sign the enclosed application for Industrial Waste Disposal permit. to be emailed Section 20.36.110, Section 20.36.120, Section 20.36.130, Section 20.36.310, Section 20.36.320, Section 20.36.490
[ ] Submit _____ sets of industrial waste plans. Section 20.36.350, Section 20.36.380, Section 20.36.500
[✓] An Industrial Waste Application Fee of $ TBD Plan Check Fee of $ —, Total of $ TBD payable to the [ ] County of Los Angeles Department of Public Works, [ ] City of _____. Section 20.36.230, Section 20.36.240, Section 20.36.245
[✓] Other: Call Engineering Department 626-458-3517 to confirm permit revision fee due to change of ownership.

An annual Industrial Waste Inspection Fee may be required upon permit issuance. Should you have any questions regarding this matter, please contact Donna Germann Monday through Friday, 8 a.m. to 9:30 a.m. at (626) 574-0962, FAX email) dgermann@dpw.lacounty.gov

Return requested items to the office below:

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL PROGRAMS DIVISION
125 S BALDWIN AVE
ARCADIA CA 91007-2652

Inspected By: _____
Signature

Receipt of a copy of this notice acknowledged by:

Print Name: MASOOD CHOUDHURY	Title: Envr. Mangr
Signature:	Date: 8/5/2016

OFFICE COPY

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Facility Details

Facility ID	182472
Company Name	FRONTIER CALIFORNIA INC
Address	5010 AZUSA CANYON RD IRWINDALE, CA 91706
Status	ACTIVE

Are there any back fees due?
No.

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Equipment List

Facility ID	182472
Company Name	FRONTIER CALIFORNIA INC
Address	5010 AZUSA CANYON RD
	IRWINDALE, CA 91706

Appl Nbr	Permit Nbr	Issued Date	Permit Status	Eq Type	Equip Description	Appl Date	Appl Status
585703				Basic	RULE 1415 PLAN NOTIFICATIONS	4/29/2016	APPLICATION READY FOR PRESCREENING

First Prev Page 1 of 1 (1 records) Next Last Page 1 Export To Excel

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Compliance

Facility ID	182472
Company Name	FRONTIER CALIFORNIA INC
Address	5010 AZUSA CANYON RD
	IRWINDALE, CA 91706

Notices Of Violaton: NONE

Notices To Comply: NONE

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Facility Details

Facility ID	22227
Company Name	VERIZON CALIFORNIA
Address	5010 N AZUSA CANYON RD
	IRWINDALE, CA 91706

Status ACTIVE

Are there any back fees due?
No.

SIC Code	Description
4813	TELEPHONE COMMS, EXC RADIO

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Equipment List

Facility ID	22227
Company Name	VERIZON CALIFORNIA
Address	5010 N AZUSA CANYON RD
	IRWINDALE, CA 91706

Appl Nbr	Permit Nbr	Issued Date	Permit Status	Eq Type	Equip Description	Appl Date	Appl Status
562882				Basic	RULE 1415 PLAN NOTIFICATIONS	3/25/2014	BANKING/ PLAN GRANTED, NON BILLABLE
532273				Basic	RULE 1415 PLAN NOTIFICATIONS	2/1/2012	BANKING/ PLAN GRANTED, NON BILLABLE
506681				Basic	RULE 1415 PLAN NOTIFICATIONS	2/3/2010	BANKING/ PLAN GRANTED, NON BILLABLE
478707				Basic	RULE 1415 PLAN NOTIFICATIONS	2/27/2008	BANKING/ PLAN GRANTED, NON BILLABLE
455893				Basic	RULE 1415 PLAN NOTIFICATIONS	4/4/2006	BANKING/ PLAN GRANTED, NON BILLABLE
440067	N16432	3/15/2005	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	2/4/2005	PERMIT TO OPERATE GRANTED
426884				Basic	RULE 1415 PLAN NOTIFICATIONS	3/16/2004	BANKING/ PLAN GRANTED, NON BILLABLE
398002				Basic	RULE 1415 PLAN NOTIFICATIONS	2/26/2002	BANKING/ PLAN GRANTED, NON BILLABLE
368136				Basic	RULE 1415 PLAN NOTIFICATIONS	4/18/2000	BANKING/ PLAN GRANTED, NON BILLABLE
300610	N02194	2/27/1995	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	2/3/1995	PERMIT TO OPERATE GRANTED
300610	N02194	2/27/1995	INACTIVE	Control	AMINE TREATING	2/3/1995	PERMIT TO OPERATE GRANTED
179422	M91079	1/18/1989	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	11/22/1988	PERMIT TO OPERATE GRANTED
179422	M91079	1/18/1989	INACTIVE	Control	NH3 INJECTION (NOX)	11/22/1988	PERMIT TO OPERATE GRANTED
113381	M80670	2/24/1984	INACTIVE	Basic	SERV STAT STORAGE & DISPENSING GASOLINE	12/1/1975	PERMIT TO OPERATE GRANTED
113381	M80670	2/24/1984	INACTIVE	Control	AMINE (OR DEA) REGENERATION	12/1/1975	PERMIT TO OPERATE GRANTED
A80392	P61411	4/24/1975	INACTIVE	Control	SPRAY BOOTH PAINT AND SOLVENT		PERMIT TO OPERATE GRANTED

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SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

PERMIT to OPERATE

9150 FLAIR DRIVE, EL MONTE, CALIFORNIA 91731

PERMIT NO.
M80670

Operation under this permit must be conducted in compliance with all information included with the initial application and the initial permit conditions. The equipment must be properly maintained and kept in good operating condition at all times. In accordance with Rule 206, this Permit to Operate or copy must be posted on or within 8 meters of equipment.

APPL. # 113381 CO. ID. 022227

LEGAL OWNER OR OPERATOR: GEN TEL OF CAL

EQUIPMENT LOCATED AT: 5010 N. AZUSA CANYON RD.
IRWINDALE, CA 917660000

SECTOR

INACTIVE
2/84
NONSE MAM

EQUIPMENT DESCRIPTION AND CONDITIONS:

R461 GASOLINE FUELING & DISPENSING FACILITY CONSISTING OF:
1. 01 GASOLINE STORAGE TANKS
2. 02 GAS DISPENSING NOZZLES
3. 03 VAPOR RECOVERY SYSTEM - BALANCE

PERMIT CONDITION:
PHASE I AND PHASE II VAPOR RECOVERY SYSTEMS MUST BE IN FULL OPERATION, WHENEVER THIS FACILITY IS IN USE. SUCH SYSTEMS MUST BE INSTALLED, OPERATED AND MAINTAINED TO MEET ALL CARB CERTIFICATION REQUIREMENTS.

This initial permit must be renewed by 4/16 ANNUALLY unless the equipment is moved, or changes ownership. If billing for annual operating fee is not received by expiration date, contact office above.

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules of the Air Quality Management District. This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

EXECUTIVE OFFICER

BY VIRGINIA MOY, PRINCIPAL
PERMIT PROCESS CLERK

DATE 02/24/84

76P234M - 6/82

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Compliance

Facility ID	22227
Company Name	VERIZON CALIFORNIA
Address	5010 N AZUSA CANYON RD
	IRWINDALE, CA 91706

Notices Of Violaton: NONE

Notices To Comply

Notice Number	Violation Date	Re-Inspection Date	Status
D14442	7/1/2010	7/28/2010	Notice issued as a warning

First Prev Page 1 of 1 (1 records) Next Last Page 1 Export To Excel

SOUTH COAST AQMD

Facility INformation Detail (FIND)

Search Again | Search Results | Facility Details | Equipment List | Compliance | Emissions | Hearing Board | Transportation

NOV/NC Details

Notice Number	D14442	Violation Date	7/1/2010	Issue Date	1/14/2011	Notice Type	NC

Facility ID	22227
Company Name	VERIZON CALIFORNIA
Address	467 ROSEMEAD IRWINDALE, CA 91766
Violation Description	Do not operate any portable engine rated greater than 50 HP without an AQMD permit or CARB registration.
Equipment Description	Portable ICE
Status	Notice issued as a warning
Re-inspection Date	7/28/2010

Rule No.	Rule Description

APPENDIX G

RESUMES

RESUME OF HEIDI HEGGENESS
Staff Geologist

EDUCATION

Bachelor of Science, Geology, 2015, California State University, Dominguez Hills

EMPLOYMENT HISTORY

2007-2010 – CRG Marine Laboratories, Inc. (analytical chemistry)
2013-2015 – California Regional Water Quality Control Board, Los Angeles (regulatory enforcement)
2015-2016 – Physis Environmental Laboratories (analytical chemistry)
2016-present – Ardent Environmental Group, Inc. (environmental consulting)

PROFESSIONAL EXPERIENCE AND RESPONSIBILITIES

Ms. Heggeness has a strong background in geology, chemistry and regulatory enforcement which provides support in completing a variety of field and office tasks during environmental assessments, site characterization, and remediation projects. Tasks include development of work plans, drilling and sampling soil borings, vapor well installation and sampling, research and review of regulatory records and historical land use records, directing subcontractors, data evaluation, technical report preparation, and drafting. Ms. Heggeness' project experience includes:

- **Phase I Environmental Site Assessment:** Staff Geologist for Phase I Environmental Site Assessment reports throughout Southern California. Report preparation includes site reconnaissance activities involving visual site inspection, research and review of regulatory records and historical land use records, and identification of potential environmental concerns and/or impacts to the site.

- **Phase II Site Characterization:** Staff Geologist for projects involving the advancement of soil borings by a variety of drilling methods to assess the nature, magnitude, and extent of soil contamination. These duties also include conducting soil gas surveys to assess vapor concentrations of volatile organic compounds for human health risks.

ASSOCIATIONS

The South Coast Geological Society

RESUME OF PAUL A. ROBERTS
Principal Geologist

EDUCATION

Bachelor of Science, Geology, 1987, California State University, Fullerton, California

REGISTRATION AND CERTIFICATIONS

Professional Geologist, California PG 6897
Registered Geologist, Arizona RG 42445
Ventura County Well Inspector
OSHA 40-Hour Health and Safety Training (with annual updates)
OSHA 8-Hour Health and Safety Supervisor Training

EMPLOYMENT HISTORY

1986-1996 – Applied Geosciences Inc. (environmental consulting)
1996-1998 – ATC Associates (environmental consulting)
1998-2007 – Ninyo & Moore (environmental consulting)
2007-present – Ardent Environmental Group, Inc. (environmental consulting)

PROFESSIONAL EXPERIENCE AND RESPONSIBILITIES

As a Principal Geologist for Ardent Environmental Group, Inc., Mr. Roberts coordinates geotechnical and geologic field evaluations and supervises field technicians and staff- and project-level geologists and engineers, reviews historical stereoscopic aerial photographs, fire insurance maps, and other historical documentation to assess the location and possible environmental affects of former features on subject properties, interacts with clients, attorneys, and agency representatives. Mr. Roberts also performs geologic and hydrogeological research and performs detailed logging and sampling of trenches, and large- and small-diameter borings. Mr. Roberts is very familiar with mud- and air-rotary, sonic, direct-push, and hollow stem auger drilling technics. Mr. Roberts interprets geophysical data to evaluate the possible presence of covered underground features such as underground storage tanks, clarifiers, sumps, and wells which may have had an environmental impact on subject properties, writes and reviews geologic reports work plans, Phase I Environmental Site Assessments, risk assessments, subsurface investigation reports, monitoring reports, feasibility studies, and remediation reports.

- **Former Chemical Plant, Santa Fe Springs:** Principal Geologist retained to log and sample deep borings for the installation of groundwater wells used to characterize the vertical and lateral extent of volatile organic compound (VOC) impacted groundwater. Sonic, mud-rotary, and hollow stem auger drilling methods were used to drill borings to depths of up to 400 feet below the ground surface (bgs).

- **Port of Los Angeles:** Project Geologist managing several environmental projects for the Port of Los Angeles (POLA) under an on-call contract. Project Geologist interacting with POLA personnel regarding environmental issues associated with land purchases, tenant

audits, and on-call remediation. Projects have involved removal of underground storage tanks at the Yang Ming Terminal and continued groundwater monitoring, and the implementation of a corrosion study at a potential automobile storage yard in the Port of Los Angeles.

- **Alameda Corridor Transportation Authority:** Project Geologist managing numerous environmental projects under an on-call remediation services contract. Projects have involved remediation of petroleum pipelines and impacted soil discovered during construction activities of the Alameda Corridor. One project involved dredging metal-impacted soil from the Port of Los Angeles, where Mr. Roberts acted as the liaison between POLA and ACTA representatives.

- **Riverside County Transportation Commission (RCTC):** Project manager for several projects for RCTC including a Phase I Environmental Site Assessment (ESAs) of the AT&SF ROW from mile post 26.93 to MP 38.2 along the San Jacinto subdivision in Riverside County, California; and Phase I ESAs and assessment and remediation of contaminated soil at proposed Metrolink station in the cities of Corona and Riverside.

- **Los Angeles Unified School District (LAUSD):** Project manager for the completion of Phase I Environmental Site Assessments at several proposed elementary school sites throughout Los Angeles county. Mr. Roberts also managed on-going monitoring of lithological pressure readings of an oil well located on the Belmont High School property. This work was completed under the direction and oversight of the Division of Oil, Gas, and Geothermal Resources.

- **Jack in the Box and Qdoba Restaurants:** Project Geologist managing numerous Phase I Environmental Site Assessments regarding real estate transactions for two major fast food restaurants. Since most of the properties are corner parcels which contained historical gasoline stations, Mr. Roberts would subsequently manage and conduct Phase II Subsurface Investigations to assess whether impacted soil and/or groundwater exists at the site and, if present, characterize the extent of the contaminants. In June 2012, Jack in the Box Inc. and Qdoba awarded Ardent Environmental Group, Inc. an on-call environmental management contract for all Jack in the Box and Qdoba properties throughout the United States. Mr. Roberts is the Project Manager for this contract which includes completing Preliminary Environmental Reviews of possible property acquisitions, completing and managing Phase I and Phase II Environmental Site Assessments and asbestos surveys, and on-call consultation regarding environmental issues and concerns.

- **Environmental Site Assessment:** Project Geologist managing environmental assessment, site characterization, and site remediation for a property located in the city of Santa Fe Springs, California. Historical aerial photographs, information obtained from the Division of Oil, Gas, and Geothermal Resources, and other data were used to assess the possible location of historical oil field activities and to design a site characterization plan. Following assessment of the volume of impacted soil, bid specifications were developed and site remediation was conducted.

- **Industrial Site Located in Riverside, California:** Project Geologist managing the subsurface investigation and characterization of an industrial site in Riverside, California. Groundwater monitoring wells and vapor extraction wells were installed in soil borings

during site characterization. Utilizing equipment supplied by the client, a vapor extraction system was designed and installed at the site.

- **Remediation at Sites in Rancho Dominguez, Commerce, La Mirada, and Riverside, California.** Project Geologist managing the design and installation of many vapor extraction pilot wells for use in feasibility studies. The feasibility studies defined different soil parameters so that a vapor extraction system, including vapor extraction wells, could be designed. Services included management, design, and installation of vapor extraction wells for use in remediation at sites in Rancho Dominguez, Commerce, La Mirada, and Riverside, California.

ASSOCIATIONS

The Geological Society of America

APPENDIX E.2

Phase II Environmental Site Assessment

Subsurface Investigation Report

5010 Azusa Canyon Road
Irwindale, California

Prepared for:
Overton Moore Properties
19300 South Hamilton Avenue, Suite 200
Gardena, California 90248
and
LaSalle Investment Management, Inc.
100East Pratt Street
Baltimore, Maryland 21202

Prepared by:
Ardent Environmental Group, Inc.
1827 Capital Street, Suite 103
Corona, California 92880

April 24, 2017
Project No. 100854001

ARDENT
ENVIRONMENTAL GROUP, INC.

April 24, 2017
Project No. 100854001

Mr. Jason Hines
Overton Moore Properties
19300 South Hamilton Avenue, Suite 200
Gardena, California 90248
and
Mr. Henry Feibusch
LaSalle Investment Management, Inc.
100 East Pratt Street
Baltimore, Maryland 21202

Subject: **Subsurface Investigation Report**
5010 Azusa Canyon Road
Irwindale, California

Dear Messrs. Hines and Feibusch:

This report presents the results of a subsurface investigation completed at the above-referenced property. Work was completed in general accordance with the proposal dated February 16, 2017 between Overton Moore Properties and Ardent Environmental Group, Inc. (Ardent) and the Master Agreement dated November 3, 2015 between LaSalle Investment Management, Inc. and Ardent. The attached report presents our methodology, findings, opinions, and conclusions regarding the environmental conditions at the site. We appreciate the opportunity to be of service to you on this project. If there are any questions, please feel free to call the undersigned at your convenience.

Sincerely,
Ardent Environmental Group, Inc.

Heidi Heggeness
Staff Geologist

Paul A. Roberts, P.G.
Principal Geologist

PAR/HH/nw

Distribution: (1) Addressee (electronic copy)

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EXECUTIVE SUMMARY

Frontier Communications (Frontier) currently owns the property and operates a telecommunication maintenance yard, which includes offices, fleet vehicle maintenance, and car washing operations. Historically, the site was used by GTE and Verizon for similar operations. Frontier is considering selling the site, at which time Frontier will lease the property back for approximately 2 years. Following termination of its lease, the site will be redeveloped for commercial purposes. Based on the results of a Phase I Environmental Site Assessment (ESA), Ardent Environmental Group, Inc. (Ardent) presented a list of potential environmental concerns at the site. Soil samples were collected in the vicinity of inactive features and soil gas samples were collected to assess whether a possible vapor intrusion issue was present. Frontier has agreed to sample beneath selected features with possible environmental issues prior to termination of its lease. Based on the results of the subsurface investigations, the following conclusions were drawn.

- **Inactive Hydraulic Lifts** - Based on laboratory results, there is a low likelihood that elevated concentrations of petroleum hydrocarbons, volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs) are present in soil in the vicinity of the inactive hydraulic lifts that would pose a threat to groundwater.
- **Former Hazardous Waste Storage Area** – Based on laboratory results, there is a low likelihood that elevated concentrations of VOCs are present in soil gas in the vicinity of the former hazardous waste storage area that would present a possible risk to human health through vapor intrusion. Based on the lack of VOCs detected, there is a low likelihood that a significant release has occurred that would impact soil beneath the former hazardous waste storage area.
- **Possible Vapor Intrusion Issue** - Based on laboratory results, there is a low likelihood that elevated concentrations of VOCs are present in soil gas in the vicinity of the Truck Wash Tunnel Area, consisting of the Truck Wash Tunnel, a former septic system, two former cesspools, an active clarifier, and an active steam cleaning pad; in the vicinity of the Vehicle Service Building and inactive steam cleaning area with former clarifiers; and in the Large Storage Building and possible dry wells. The residual concentrations would not pose a possible risk to human health through vapor intrusion.

Based on the findings of this investigation, Ardent recommends no further investigations or remediation at this time.

1. INTRODUCTION

Ardent Environmental Group, Inc. (Ardent) was retained by Overton Moore Properties and LaSalle Investment Management, Inc. (collectively referred to as the "OMP/LaSalle") to complete a subsurface investigation at the property located at 5010 Azusa Canyon Road in the city of Irwindale, California (site; Figure 1). Work was completed in general accordance with the proposal dated February 16, 2017 between OMP and Ardent and the Master Agreement dated November 3, 2015 between LaSalle and Ardent. Frontier Communications (Frontier) currently owns the property and operates a telecommunication maintenance yard. Historically, the site was used by GTE and Verizon for similar operations. Frontier is considering selling the site to OMP/LaSalle, who will lease the site back to Frontier for approximately 2 years, after which, the site will be redeveloped for commercial purposes.

Ardent has recently completed a draft Phase I Environmental Site Assessment (ESA) as part of the real estate due diligence process (Ardent, 2017). Based on the results, a number of potential environmental concerns were noted. Since the property is planned to be leased back to Frontier for continued use as a telecommunication maintenance yard, it was agreed upon that any potential environmental feature that will continue to be used by Frontier as part of its operation (i.e. active equipment or features) will be removed and sampled by Frontier following completion of its lease. Any environmental concern that is no longer used (i.e. inactive equipment or features), Ardent would sample before OMP/LaSalle closes the real estate transaction.

1.1. Potential Environmental Concerns Discovered at the Site

Based on the results of the Phase I ESA, the following potential environmental concerns were identified. The location of the potential environmental concerns are presented on Figure 2.

- Four inactive hydraulic lifts
- Three active hydraulic lifts
- Former steam cleaning area with two inactive clarifiers located within the Vehicle Service Building
- Active aboveground storage tanks (ASTs)

- Former Truck Wash Tunnel Area with a clarifier, active steam cleaning pad, inactive septic tank, two former cesspools, waste drum storage enclosure, and former hazardous waste storage area
- Three hydraulic oil reservoirs
- Former dry well associated with the former truck scale (currently beneath the Large Storage Building) and possible dry well beneath a circular steel plate in close proximity to the Large Storage Building
- Miscellaneous containers of waste, liquids, or hazardous substances
- Possible vapor intrusion issues associated with solvent uses in the Vehicle Service Building, former steam cleaning area, Larger Storage Building Area (i.e. solvent storage and two former dry wells), and Truck Wash Tunnel Area (i.e. the active Truck Wash Tunnel, clarifier, the former septic system, two former cesspools, and active steam cleaning pad).
- Asbestos containing building materials (ACMs) and lead-based paint (LBP).

1.2. OMP/LaSalle's Responsibilities

The following presents the potential environmental concerns that OMP/LaSalle will be responsible to sample.

- Inactive hydraulic lifts
- Former hazardous waste storage area
- Possible vapor intrusion due to solvent uses (Truck Wash Tunnel Area, consisting of the Truck Wash Tunnel, the former septic system, two former cesspools, an active clarifier, and an active steam cleaning pad; in the vicinity of the Vehicle Service Building and inactive steam cleaning area with former clarifiers; and in the Large Storage Building and possible dry wells).
- In addition, and after Frontier vacates the property, OMP/LaSalle will need to completed a comprehensive asbestos and LBP survey. For purposes of this report, Ardent has provided an estimated cost to remove ACMs and stabilize LBP.

1.3. Frontier's Responsibilities

Prior to the expiration of the lease, Frontier will be responsible to remove and sample the following areas of environmental concern.

- Active hydraulic lifts
- All ASTs
- Hydraulic fluid reservoirs
- Floor drain associated with the active steam cleaning pad
- Floor drains associated with the active Truck Wash Tunnel

- All active clarifiers
- Waste drum storage enclosure
- All miscellaneous containers of waste, liquids, or hazardous substances
- In addition, all permits will be closed

2. OBJECTIVES

The objectives of the work presented herein were to assess whether elevated concentrations of volatile organic compounds (VOCs) were present in soil gas in selected areas of the site that might pose a possible human health risk through vapor intrusion and to assess whether elevated concentrations of petroleum hydrocarbons and VOCs were present in the vicinity of the inactive hydraulic lifts and former hazardous waste storage area.

3. PHYSICAL SETTING

The following sections include discussions of topographic, geologic, and hydrogeologic conditions in the vicinity of the site, based upon our document review and our visual reconnaissance of the site and adjacent areas.

3.1. Site Topography

Based on the review of the United States Geological Survey (USGS) 7.5 Minute Series, Baldwin Park, California, Topographic Quadrangle Map dated 2012, the site has an elevation of approximately 449 feet above mean sea level (msl) and slopes to the southwest.

3.2. Geology

The site is located in the northern area of the Peninsular Ranges geomorphic province. The active Sierra Madre Fault which separates the Peninsular Range from the Transverse Range is located approximately 2 miles north of the site. According to the 2010 Geologic map of California the underlying geology of the site consists of older Quaternary alluvium associated with lake, playa and terrace deposits. This alluvium consists of a pebble to boulder gravel with a course grained sand matrix. Irwindale is a rock quarry area; therefore soil lithology is mostly sand, gravel, and large cobbles.

3.3. Site Hydrology

The following sections discuss the site hydrology in terms of both surface waters and groundwater.

3.3.1. Surface Waters

No natural surface water bodies, including ponds, streams, or other bodies of water, are present on the site. The Santa Fe Damn, an earthen dam, is located approximately 0.90-mile northwest of the site.

3.3.2. Groundwater

Groundwater has been measured in the site vicinity at depths of approximately 250 feet below the ground surface (bgs) and flows in a southwesterly direction. The site is located within the San Gabriel Valley Groundwater Basin. Portions of the San Gabriel Valley Groundwater Basin have been listed on the National Priority List (NPL), or Superfund Site. The site is located within the Baldwin Park Operable Unit of the San Gabriel Valley Groundwater Basin which has been impacted with VOCs, namely the chlorinated solvents trichloroethene (TCE) and tetrachloroethylene (PCE), which were historically used by the commercial and industrial facilities located in this area. Based on our review of groundwater plume maps provided by the United States Environmental Protection Agency (EPA or USEPA), the site is located within a VOC plume and groundwater beneath the site has been impacted with chlorinated solvents. On behalf of the EPA, the Regional Water Quality Control Board, Los Angeles Region (RWQCB) has investigated the site as part of its Well Investigation Program (WIP). Two investigations were completed at the site which indicated concentrations of VOCs in soil gas, including chlorinated solvents. These concentrations did not identify a significant release source that would pose a threat to groundwater. Based on these results, a no further action (NFA) letter was issued dated September 3, 1992, following the initial investigation, and an additional investigation completed in 1995 resulted in another NFA letter dated June 5, 1998. The regional VOC-impacted groundwater would be considered a recognized environmental condition (REC). However, based on the former concentrations, Ardent concurs with the RWQCB that there is a low likelihood that the site has contributed to these regional groundwater issues.

In mid-2000, the Department of Toxic Substances Control (DTSC) began reviewing soil gas data with respect to human health risks through possible vapor intrusion. Based on very conservative screening levels set-forth by the DTSC, the former concentrations of VOCs in soil gas at the site might be considered a possible human health risk through vapor intrusion. Due to the amount of time which has passed since the initial sampling (approximately 20 years), and the new screening levels imposed by the DTSC, Ardent recommended completing a soil gas survey in selected areas of the site where solvent uses were likely completed.

4. CLEANUP GUIDELINES

The subsurface investigation included the collection and analyses of soil and soil gas samples. Soil samples were analyzed by SunStar Laboratories of Lake Forest, California. Soil samples were analyzed for total petroleum hydrocarbon carbon chain C_6-C_{32} (TPHcc), volatile organic compounds (VOCs), and/or polychlorinated biphenols (PCBs) in general accordance with EPA Method Nos. 8015 (modified), 8260B, and 8082. Soil gas samples were analyzed by Jones Environmental of Santa Fe Springs, California, using a mobile laboratory. Soil gas samples were analyzed for VOCs in general accordance with EPA Method No. 8260B. Ardent evaluated the laboratory data based on an environmental risk for the protection of groundwater and a human health risk based on dermal contact and possible vapor intrusion. Ardent completed these evaluations based on an industrial/commercial land use criteria.

To determine the potential environmental risk, concentrations of petroleum hydrocarbons in the soil were assessed based on the Regional Water Quality Control Board, Los Angeles Region (RWQCB), Interim Site Assessment and Cleanup Guidebook dated May 1996 (referred to herein as the “RWQCB guidelines”). The RWQCB guidelines are based on the protection of groundwater and take into account a number of variables including soil lithology and groundwater depth. Based on the depth to groundwater beneath the site, total petroleum hydrocarbons as gasoline in the C_4-C_{12} carbon range (TPHg) would be considered elevated with concentrations exceeding 500 milligrams per kilogram (mg/kg). Diesel range hydrocarbons in the carbon range C_{13}-C_{22} (TPHd) would be considered elevated with concentrations exceeding 1,000 mg/kg. Heavy oils in the carbon chain C_{23}-C_{36} (TPHo) would be considered elevated with concentrations exceeding 10,000 mg/kg. Volatile organic compounds were generally compared

to the RWQCB guidelines, Department of Toxic Substances Control (DTSC), Human and Ecological Risk Office (HERO), Note 3, soil screening levels for industrial/commercial land use (DTSC-SLi), and Environmental Protection Agency (EPA) Region 9, Regional Screening Levels for industrial/commercial land use (EPA-RSLi). The DTSC-SLi and EPA-RSLi values are human health based criteria.

The DTSC-SLi and EPA-RSLi provides screening levels for soil and ambient air at industrial/commercial properties. These are very conservative guidelines and are based on the protection of human health through dermal contact (soil) and possible vapor intrusion (soil gas). The DTSC-SLi and EPA-RSLi presented on attached Table 2 were calculated by modifying the ambient air concentrations using a DTSC-provided attenuation factor of 0.05 for sub-slab samples for an industrial/commercial development.

5. SUBSURFACE INVESTIGATION

The subsurface investigation was completed on March 6 and March 8, 2017 and consisted of collecting soil and soil vapor samples in the areas of the potential environmental concerns that OMP/LaSalle is responsible to sample. Due to extremely hard drilling conditions (i.e. gravel and cobbles), soil borings were drilled using hollow stem ager drilling equipment. An attempt was made to collect a soil sample beneath the former hazardous waste storage area, although due to extreme drilling conditions, a soil sample could not be obtained. Selected soil samples collected from the borings were screened in the field for stains, odors, and elevated photoionization detector (PID) readings.

Soil gas samples were collected using sub-slab sampling points. The concrete slab/asphalt associated with the sub-slab sample points was drilled using a pneumatic drill and a Vapor Pin provided by Cox-Colvin & Associates, Inc. was installed. At least 2 hours following installation, each sub-slab sampling point was purged of three volumes of air and sampled using a mobile laboratory. Laboratory results are summarized on Tables 1 and 2, boring and well logs are provided in Attachment A, and copies of the laboratory reports are provided in Attachment B. The following presents the results of the subsurface investigations.

5.1. Inactive Hydraulic Lifts

Four inactive underground hydraulic lifts are located within the Vehicle Service Building (Figure 4). The lifts were dual lifts that had been removed from the site. According to site personnel, the lifts used to lose pressure and would not hold a vehicle in the air. Therefore, the lifts were removed. No sampling was completed during the removal activities.

Borings I1 through I4 were drilled in the vicinity of the four former hydraulic lifts to a depth of approximately 15 feet bgs (Figure 4). Soil samples were collected at depths of approximately 5, 10, and 15 feet within each boring. No stained or odorous soil, or elevated PID readings were noted throughout the borings. Soil samples collected at approximately 10 feet bgs from each boring were chemically analyzed. Laboratory results indicated no detectable concentrations of TPHcc, VOCs, and/or PCBs.

5.2. Former Hazardous Waste Storage Area

The former hazardous waste storage area is located adjacent to the Truck Wash Tunnel and was reportedly used to store 55-galon drums of waste oil, filters, antifreeze, and other miscellaneous liquid wastes generated from the fleet vehicle maintenance activities (Figure 3).

As noted above, an attempt was made to collect a soil sample from beneath the concrete pad associated with the former hazardous waste storage area. Due to extremely hard drilling conditions (gravels and cobles), no sample was collected. To further asses this feature, Ardent installed a sub-slab soil gas sample point through the concrete pad. Laboratory results indicated no detectable concentrations of VOCs.

5.3. Possible Vapor Intrusion Due to Solvent Uses

Based on the results of the Phase I ESA, the site was listed as a small quantity generator of hazardous waste, including chlorinated solvents. As noted above, the site is located within the Baldwin Park Operable Unit of the San Gabriel Valley Groundwater Basin Superfund Site. Groundwater beneath the site, although very deep at approximately 250 feet bgs, is impacted with VOCs due to industrial land use. In 1992 and 1995, two extensive soil gas surveys were completed at the site (in and around the Vehicle Service Building and Truck Wash Tunnel Area) under the direction and oversight of the RWQCB WIP to assess whether the site may have contributed to the regional groundwater issues.

The results of the sampling were reported in "total VOCs" and did not specify which chemicals were detected. The results indicated concentrations of total VOCs up to approximately 200 micrograms per liter (ug/l). Although detectable concentrations of VOCs were reported, the RWQCB concluded that there was a low likelihood that a significant release was present that would threaten groundwater. Ardent concurs with this conclusion.

In the mid-2000s the DTSC set-forth much more stringent screening values for VOCs remaining at an industrial/commercial property based on the risk of human exposure through possible vapor intrusion. Based on this information, Ardent recommended screening the site in areas of possible solvent uses to assess whether a human health risk was present. The locations investigated included three main areas, (1) the Truck Wash Tunnel Area (Figure 3), (2) the Vehicle Service Building (Figure 4), and (3) the Large Storage Building (Figure 5). Each area contained a number of features where solvents may have been used. The following presents these features and the results of the investigations.

Truck Wash Tunnel Area

The Truck Wash Tunnel Area is located in the northwestern portion of the site and consists of the Truck Wash Tunnel, the former septic system, two former cesspools, an active clarifier, and an active steam cleaning pad. The Truck Wash Tunnel is an active car wash with floor drains that is used by Frontier to wash fleet vehicles. Two cesspools were formerly located in this area and were possibly connected to the Truck Wash Tunnel. An active clarifier is currently located north of the Truck Wash Tunnel and is connected to this feature. An active steam cleaning pad is also located immediately northeast of the Truck Wash Tunnel and may also be connected to the active clarifier (Figure 3).

Sub-slab sample points I9 through I14 were drilled in the vicinity of these features. With the exception of sample point I10, laboratory results indicated no detectable to low concentrations of VOCs, well below the State and federal screening levels (Table 2). Laboratory results of sample I10 indicated concentrations of tetrachloroethylene (PCE) at 0.048 ug/l, slightly exceeding the very conservative sub-slab screening level of 0.042 ug/l. As noted on Figure 3, other sub-slab sample points, such as I9 and I11, were located within close proximity to sample I10. Laboratory results of these sample points indicated no

detectable concentrations of PCE. Based on the isolated concentration of PCE noted in I10, this appears to be an anomaly and would not be considered a possible human health risk.

Vehicle Service Building

The Vehicle Service Building is currently used to maintain vehicles. Part of the maintenance activities included washing automobile parts with solvents. A former steam cleaning area with two former clarifiers was reportedly located in the mid-portion of the building (Figure 4). The clarifiers were either removed or abandoned in-place (accurate documentation was not available). The steam cleaning area has been converted into an office.

Four sub-slab sample points (designated I5 through I8) were placed immediately south of the Former Vehicle Service Building and within the location of the former steam cleaning area/clarifiers. The location of these features was obtained from previous reports. Laboratory results indicated no detectable to low concentrations of VOCs, well below the very conservative State and Federal screening levels (Table 2).

Large Storage Building

In 1956, a site plan referenced the installation of a dry well located in the northeastern portion of the site (Ardent, 2017). The dry well was connected to a former truck scale, that has since been removed from the site. Based on a review of the site plan, the dry well would now be located beneath the existing Large Storage Building. A circular steel plate was noted in this general area (Figure 5). Rainwater accumulated within the subsurface compartment holding the truck scale would drain to the dry well. Since rainwater would likely contain oil and grease from the truck scale, this feature would be considered an environmental concern to the site. A circular steel plate was also located near the Large Storage Building, which may also be a dry well. In additional, solvent storage was noted by Ardent in the Large Storage Building.

Due to limited access within the Large Storage Building and hard drilling conditions, Ardent installed three sub-slab sample points including two within the Large Storage Building (sample point I15 and I16) and next to the possible dry well associated with the former truck scale (sample point I16) and one next to the circular steel plate and possible dry well

(sample point I17). Laboratory results indicated no detectable to low concentrations of VOCs, well below the conservative State and Federal screening levels (Table 2).

6. SUSPECT ASBESTOS-CONTAINING BUILDING MATERIALS AND LEAD-BASED PAINT

Based on the age of the buildings, ACMs and LBP are likely present. Due to the destructive nature of the sampling activities, comprehensive demolition asbestos surveys are typically completed after occupants have vacated the buildings and as not to void material warranties (e.g. roofing warranties). Based on this information and after Frontier vacates the site, OMP/LaSalle should complete a comprehensive asbestos and LBP survey to assess quantities of ACMs that will need to be removed and LBP that will need to be stabilized prior to demolition activities. For budgetary purposes and based on our experience, Ardent has estimated the ACM removal and LBP stabilization costs at between $81,000 to $128,000.

7. CONCLUSIONS AND RECOMMENDATIONS

Frontier currently owns the property and operates a telecommunication maintenance yard, which includes offices, fleet vehicle maintenance, and car washing operations. Historically, the site was used by GTE and Verizon for similar operations. Frontier is considering selling the site, at which time Frontier will lease the property back for approximately 2 years. Following termination of its lease, the site will be redeveloped for commercial purposes. Based on the results of a Phase I ESA, Ardent presented a list of potential environmental concerns at the site. Soil samples were collected in the vicinity of inactive features and soil gas samples were collected to assess whether a possible vapor intrusion issue was present. Frontier has agreed to sample beneath selected features with possible environmental issues prior to termination of its lease. Based on the results of the subsurface investigations, the following conclusions were drawn.

- **Inactive Hydraulic Lifts** - Based on laboratory results, there is a low likelihood that elevated concentrations of petroleum hydrocarbons, VOCs, and PCBs are present in soil in the vicinity of the inactive hydraulic lifts that would pose a threat to groundwater.
- **Former Hazardous Waste Storage Area** – Based on laboratory results, there is a low likelihood that elevated concentrations of VOCs are present in soil gas in the vicinity of the former hazardous waste storage area that would present a possible risk to human health through vapor intrusion. Based on the lack of VOCs detected, there is a low likelihood that a significant release has occurred that would impact soil beneath the former hazardous waste storage area.

- **Possible Vapor Intrusion Issue** - Based on laboratory results, there is a low likelihood that elevated concentrations of VOCs are present in soil gas in the vicinity of the Truck Wash Tunnel Area, consisting of the Truck Wash Tunnel, the former septic system, two former cesspools, an active clarifier, and an active steam cleaning pad; in the vicinity of the Vehicle Service Building and inactive steam cleaning area with former clarifiers; and in the Large Storage Building and possible dry wells. The residual concentrations would not pose a possible risk to human health through vapor intrusion.

Based on the findings of this investigation, Ardent recommends no further investigations or remediation at this time.

8. REFERENCES

Ardent Environmental Group, Inc. (Ardent), 2017, Phase I Environmental Site Assessment, 5010 Azusa Canyon Road, Irwindale, California: Report prepared for Overton Moore Properties, Gardena, California, and LaSalle Investment Management, Inc., Baltimore, Maryland, dated February 22, 2017.

Department of Toxic Substances Control (DTSC), 2011, Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance), dated October.

Department of Toxic Substances Control (DTSC), 2015, Advisory Active Soil Gas Investigations, dated July 2015.

Department of Toxic Substances Control (DTSC), Human and Ecological Risk Office (HERO), 2016, Human Health Risk Assessment (HHRA) Note Number 3, DTSC-Modified Screening Levels (DTSC-SLi), dated June.

EPA Region 9, 2016, Regional Screening Levels (RSLs) Summary Table, dated May.

Regional Water Quality Control Board, Los Angeles Region (RWQCB), 1996, Interim Site Assessment & Cleanup Guidebook, dated May.

TABLE 1 - LABORATORY RESULTS OF SOIL SAMPLES - PETROLEUM HYDROCARBONS, POLYCHLORINATED BIPHENYLS AND VOLATILE ORGANIC COMPOUNDS

Rationale	Location	Boring ID	Date Sampled	Sample Depth (feet bgs)	TPHcc (C_6-C_{32}) (mg/kg)			PCBs (mg/kg)	VOCs (mg/kg)
					TPHg (C_6-C_{12})	TPHd (C_{13}-C_{22})	TPHo (C_{23}-C_{32})		
Vehicle Service Building	In the vicinity of former underground hydraulic lifts within western portion of the building	I1	03/06/17	10	ND<10	ND<10	ND<10	ND<0.010	ND<0.005-0.010
		I2	03/06/17	10	ND<10	ND<10	ND<10	NA	ND<0.005-0.010
	In the vicinity of former underground hydraulic lifts within the central portion of the building	I3	03/06/17	10	ND<10	ND<10	ND<10	NA	ND<0.005-0.010
		I4	03/06/17	10	ND<10	ND<10	ND<10	NA	ND<0.005-0.010
REGULATORY GUIDELINES (mg/kg)									
LARWQCB					1,000	10,000	50,000	NA	NA
DTSC-SLi					NA	NA	NA	NA	Various
EPA RSLi					NA	NA	NA	0.72-27	Various

Notes:

Boring ID - soil boring identification

feet bgs - feet below the ground surface

mg/kg - milligrams per kilogram

NA - not applicable/available

-- not analyzed

ND - no detectable concentration above the laboratory reporting limit

TPHcc - total petroleum hydrocarbons carbon chain C_6-C_{32} analyzed in general accordance with EPA Method No. 8015 (modified)

TPHg - total petroleum hydrocarbons as gasoline carbon chain C_6-C_{12}

TPHd - total petroleum hydrocarbons as diesel fuel carbon chain C_{13}-C_{22}

TPHo - total petroleum hydrocarbons as oil carbon chain C_{23}-C_{32}

PCBs - polychlorinated biphenyls analyzed in general accoradance with EPA Method No. 8082

VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B

LARWQCB - Regional Water Quality Control Board, Los Angeles Region guidelines presented in the Interim Site Assessment and Cleanup Guidebook, dated May 1996 for samples collected greater than 150 feet above groundwater

DTSC-SLi - Department of Toxic Substances Control Screening Levels, Note 3, for industrial/commercial land use, dated June 2016

EPA RSLi - EPA Region 9, Regional Screening Levels for industrial/commercial land use, dated May 2016

TABLE 2 - LABORATORY RESULTS OF SOIL GAS SAMPLES

Rationale	Location	Boring ID	Date Sampled	Depth (feet bgs)	VOCs (ug/l)				
					Freon 12	Freon 113	Freon 11	PCE	All Others
Former Hazardous Waste Storage Area	North and adjacent to the Truck Wash Tunnel	I11	3/8/2017	0.5	ND<0.020	ND<0.10	ND<0.020	ND<0.020	ND<0.02-1
Truck Wash Tunnel Area	Within the active steam cleaning pad located immediately northeast of the Truck Wash Tunnel	I9	3/8/2017	0.5	ND<0.020	ND<0.10	ND<0.020	ND<0.020	ND<0.02-1
		I10	3/8/2017	0.5	**0.029**	ND<0.10	ND<0.020	**0.048**	ND<0.02-1
	Within the eastern portion of the Truck Wash Tunnel and in the vicinity of the former cesspool	I12	3/8/2017	0.5	NF	NF	NF	NF	NF
	Within the western portion of the Truck Wash Tunnel	I13	3/8/2017	0.5	ND<0.020	ND<0.10	ND<0.020	ND<0.020	ND<0.02-1
	In the vicinity of the active clarifier and the former cesspool	I14	3/8/2017	0.5	ND<0.020	ND<0.10	ND<0.020	ND<0.020	ND<0.02-1
Vehicle Service Building	Immediately south of the Vehicle Service Building and in the vicinity of the hydraulic fluid reservoirs	I5	3/8/2017	0.5	ND<0.020	ND<0.10	ND<0.020	ND<0.020	ND<0.02-1
	Immediately south of the Vehicle Service Building and in the vicinity of the former steam cleaning area and associated clarifiers	I6	3/8/2017	0.5	ND<0.020	ND<0.10	ND<0.020	ND<0.020	ND<0.02-1
		I7	3/8/2017	0.5	**0.057**	ND<0.10	ND<0.020	**0.02**	ND<0.02-1
		I8	3/8/2017	0.5	**0.040**	ND<0.10	**0.026**	ND<0.020	ND<0.02-1
Large Storage Building	Within the norther portion of the Large Storage Building	I15	3/8/2017	0.5	**0.058**	**0.120**	**0.386**	ND<0.020	ND<0.02-1
	Within the southwest portion of the Large Storage Building and next to the possible dry well associated with the former truck scale	I16	3/8/2017	0.5	ND<0.020	**0.132**	**0.514**	ND<0.020	ND<0.02-1
	Next to the circular steel plate and possible dry well	I17	3/8/2017	0.5	**0.032**	**0.284**	**1.20**	ND<0.020	ND<0.02-1
Regulatory Guidelines (ug/l)									
DTSC-SLi					NA	NA	106	0.04	Various
EPA RSLi					8.8	2,600	NA	0.94	Various

Notes:

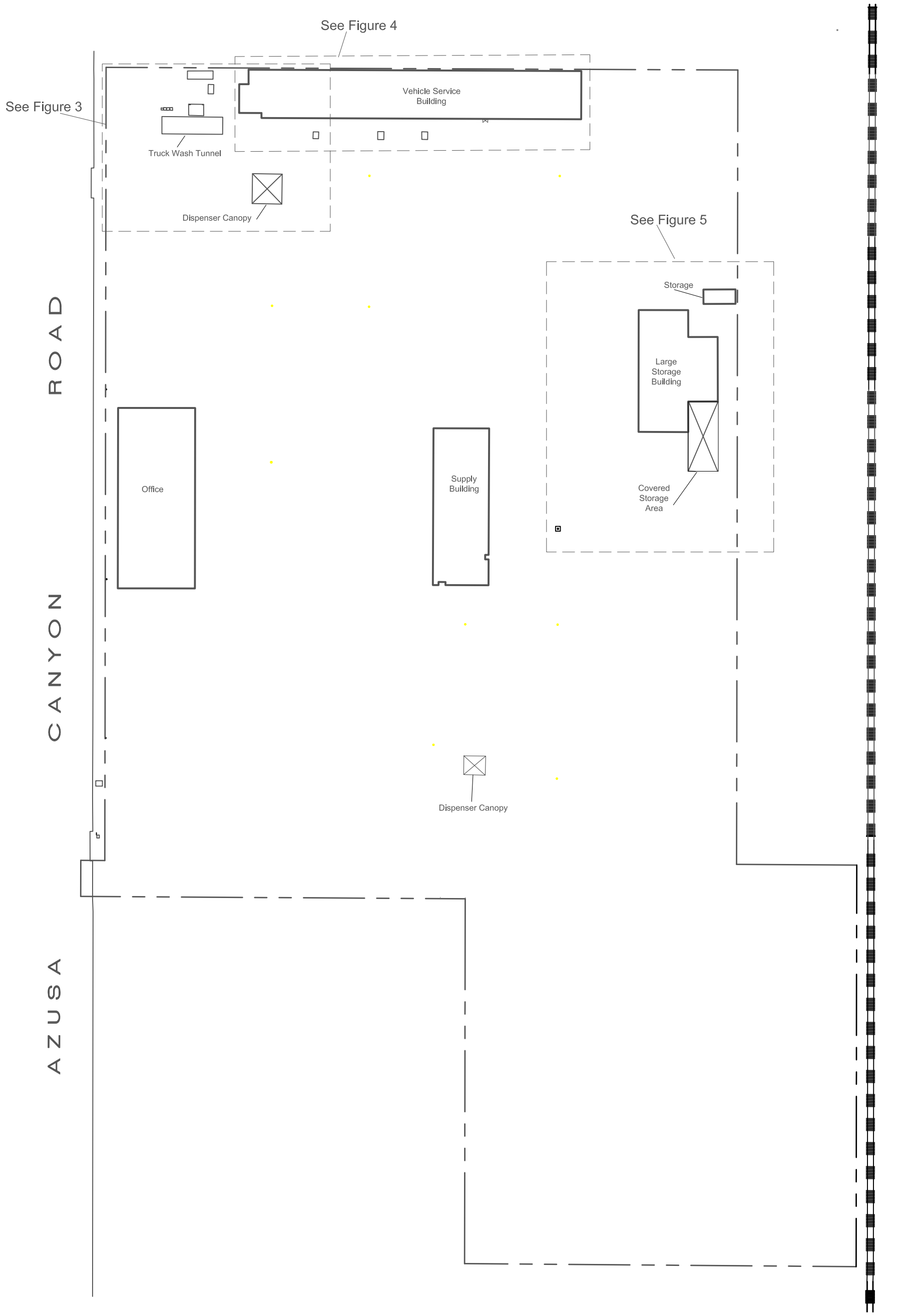
Sample ID - soil gas sample identification
feet bgs - feet below ground surface
ND - no detectable concentration above the laboratory reporting limit
NA - not available
NF- no flow
ug/l - micrograms per liter
Freon 12 - dichlorodifluoromethane
Freon 113 - 1,1,2-trichloro-1,2,2-trifluoroethane
Freon 11 - trichlorofluoromethane
PCE - tetrachloroethylene
VOCs - volatile organic compounds analyzed in general accordance with EPA Method No. 8260B
DTSC-SLi - Department of Toxic Substances Control Note 3 (Note 7 for PCE), modified screening levels for ambient air calculated for soil gas using the attenuation factor for an existing commercial building with subslab samples (i.e. 0.05), dated June 2016 for Note 3 and September 2016 for Note 7
EPA-RSLi - EPA Region 9 Regional Screening Level, modified screening levels for ambient air calculated for soil gas using the attenuation factor for an existing commercial building with subslab samples (i.e. 0.05), dated May 2016
Highlighted cell exceeds regulatory screening level

N

NO SCALE

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

ARDENT ENVIRONMENTAL GROUP, INC.	PROJECT NO. **100854001**	**SITE LOCATION MAP**	FIGURE **1**
	DATE **04/17**	5010 AZUSA CANYON ROAD IRWINDALE, CALIFORNIA	



LEGEND

Approximate Site Boundary

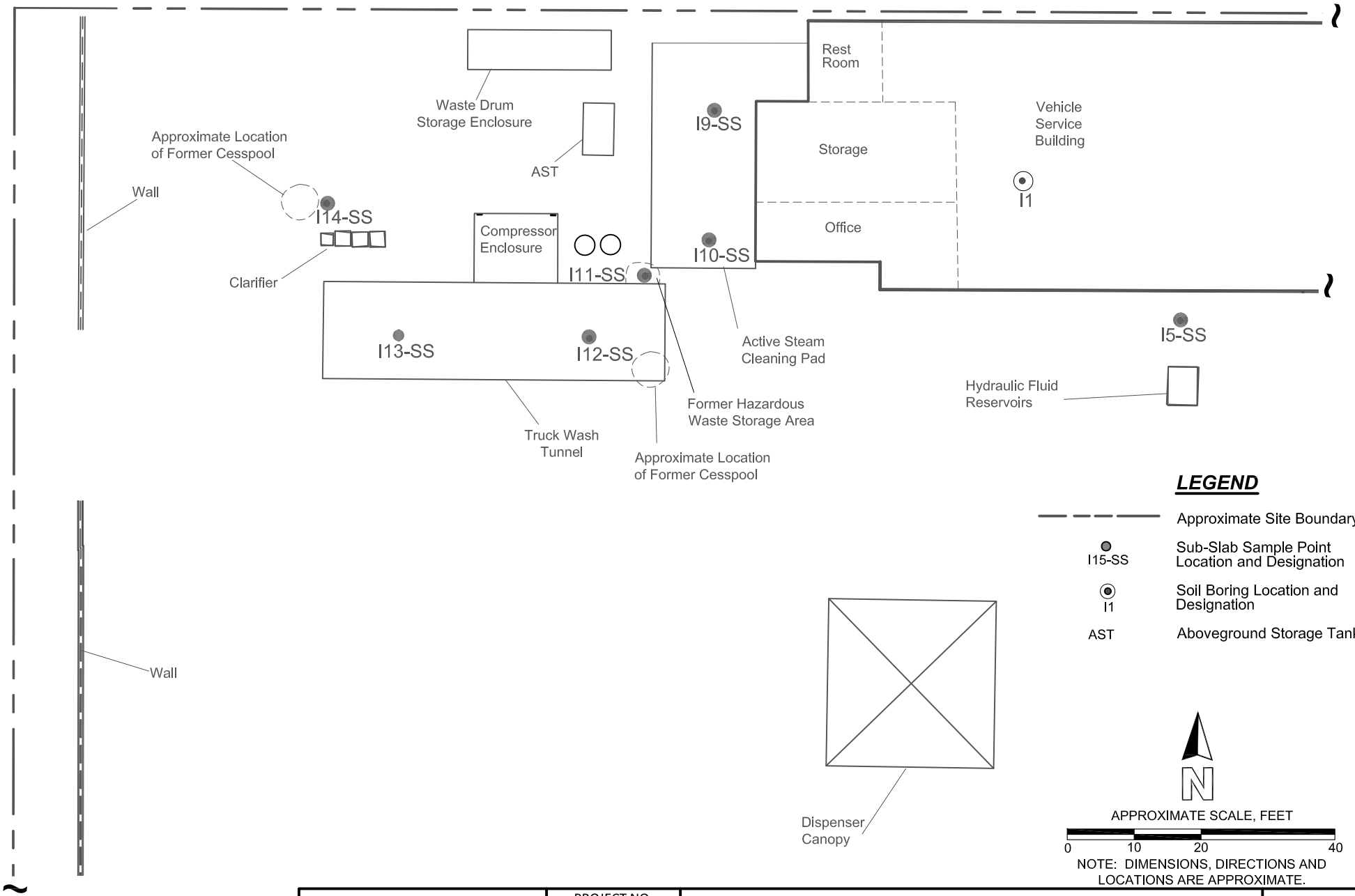
N

APPROXIMATE SCALE, FEET

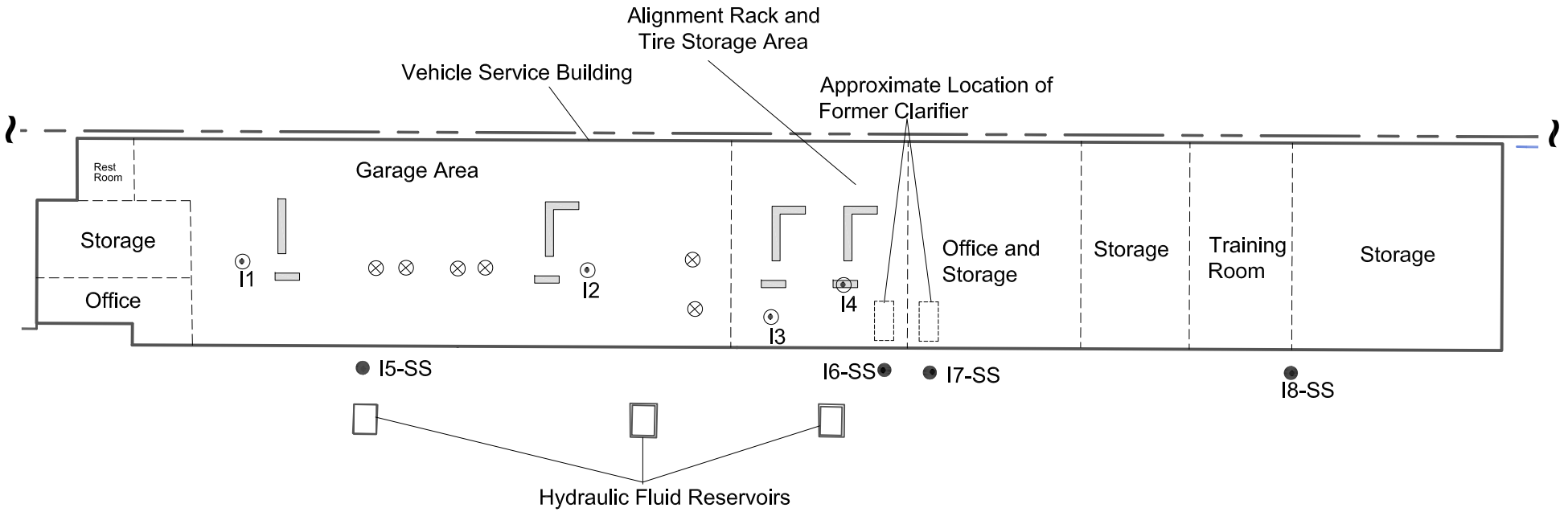
0 40 80 160

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

ARDENT ENVIRONMENTAL GROUP, INC.	PROJECT NO. **100854001**	SITE PLAN	FIGURE **2**
	DATE **04/17**	5010 AZUSA CANYON ROAD IRWINDALE, CALIFORNIA	



ARDENT ENVIRONMENTAL GROUP, INC.	PROJECT NO. 100854001	DETAIL PARTIAL SITE PLAN, TRUCK TUNNEL WASH AREA	FIGURE 3
	DATE 04/17	5010 AZUSA CANYON ROAD IRWINDALE, CALIFORNIA	



LEGEND

- Approximate Site Boundary
- I5-SS — Sub-Slab Sample Point Location and Designation
- I1 — Soil Boring Location and Designation
- Approximate Location of Concrete Patch
- Active Underground Hydraulic Lift

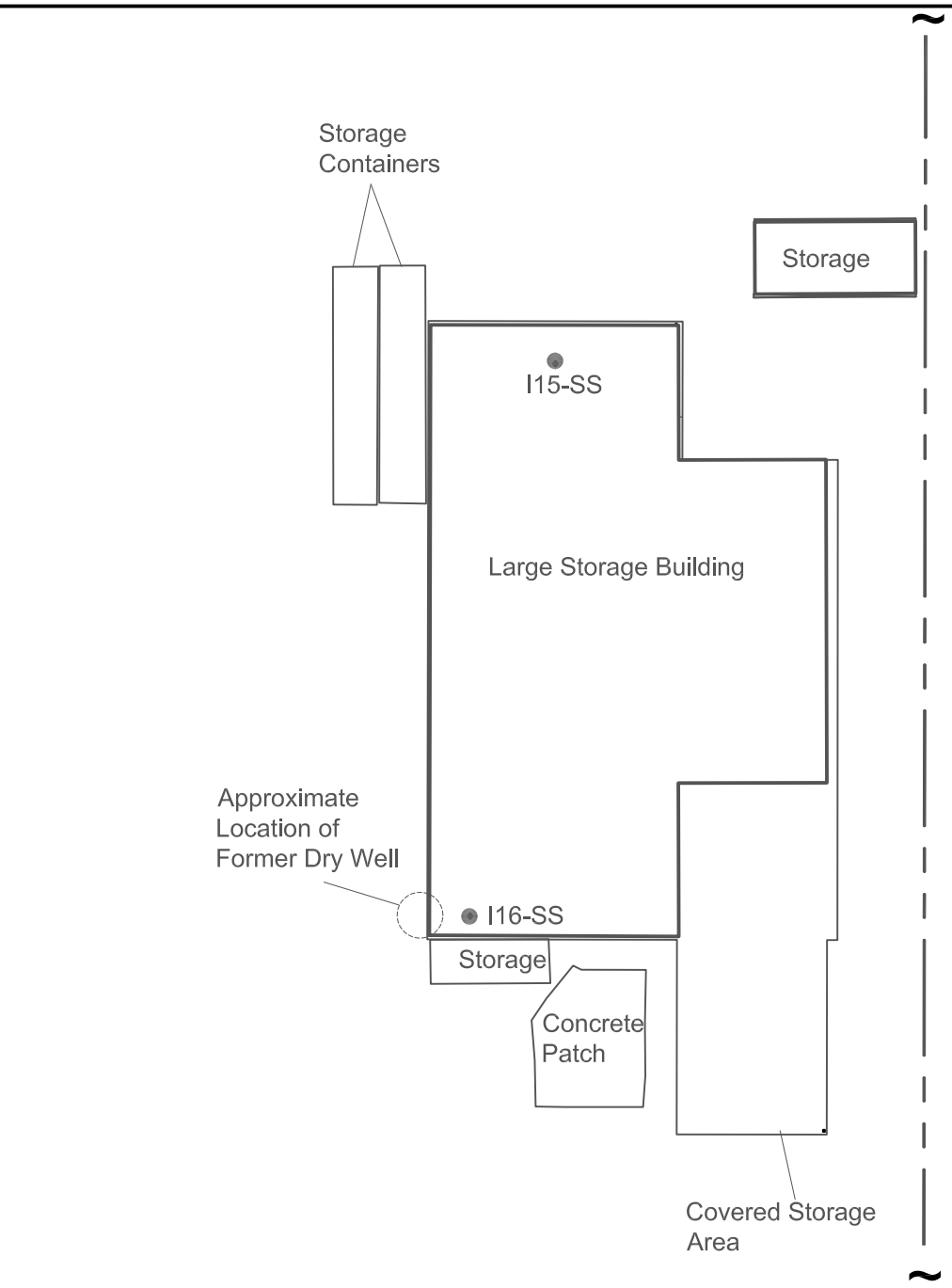
N

APPROXIMATE SCALE, FEET

0 15 30 60

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

ARDENT ENVIRONMENTAL GROUP, INC.	PROJECT NO. 100854001	DETAIL PARTIAL SITE PLAN, VEHICLE SERVICE BUILDING	FIGURE 4
	DATE 04/17	5010 AZUSA CANYON ROAD IRWINDALE, CALIFORNIA	



I17-SS

Circular Steel Plate
4-feet in diameter
(Possible Dry Well)

LEGEND

Approximate Site Boundary

I15-SS — Sub-Slab Sample Point Location and Designation

N

APPROXIMATE SCALE, FEET

0 15 30 60

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

ARDENT ENVIRONMENTAL GROUP, INC.	PROJECT NO. 100854001	DETAIL PARTIAL SITE PLAN, LARGE STORAGE BUILDING	FIGURE 5
	DATE 04/17	5010 AZUSA CANYON ROAD IRWINDALE, CALIFORNIA	

APPENDIX A

BORING LOGS

BORING LOG EXPLANATION SHEET

DEPTH (feet)	SAMPLES: Bulk	SAMPLES: Driven	BLOWS/ FOOT	SAMPLE ID	ORGANIC VAPORS (ppm)	SYMBOL	CLASSIFICATION U.S.C.C.	
0	■							Bulk sample.
		■						Modified split-barrel drive sampler.
		☒						No recovery with modified split-barrel drive sampler.
		▮						Continuous push 2.25-inch O.D. (1.5-inch I.D.) sampler.
		⁄						No recovery with a continuous push sampler.
5		▯	XX/XX					Continuous push 1.5-inch O.D. (1.0-inch I.D.) sampler.
10						▒	SM	ALLUVIUM: Solid line denotes formation change.
								Dashed line denotes unit change.
15								⚲ Seepage. Groundwater encountered during drilling. Groundwater measured after drilling.
								The total depth line is a solid line that is drawn at the bottom of the boring.

ARDENT
ENVIRONMENTAL GROUP, INC.

BORING LOG

EXPLANATION OF BORING LOG SYMBOLS

PROJECT NO.	DATE	FIGURE

ARDENT
ENVIRONMENTAL GROUP, INC.

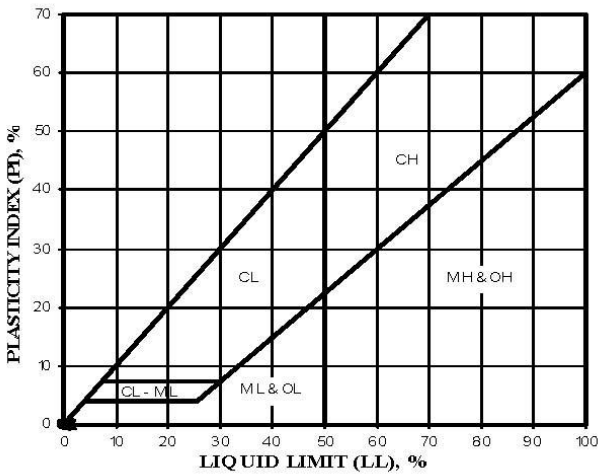
U.S.C.S. METHOD OF SOIL CLASSIFICATION

MAJOR DIVISIONS		SYMBOL		TYPICAL NAMES
COARSE-GRAINED SOILS (More than 1/2 of soil > No. 200 sieve size)	**GRAVELS** (More than 1/2 of coarse fraction > No. 4 sieve size)		GW	Well graded gravels or gravel-sand mixtures, little or no fines
			GP	Poorly graded gravels or gravel-sand mixtures, little or no fines
			GM	Silty gravels, gravel-sand-silt mixtures
			GC	Clayey gravels, gravel-sand-clay mixtures
	SANDS (More than 1/2 of coarse fraction < No. 4 sieve size)		SW	Well graded sands or gravelly sands, little or no fines
			SP	Poorly graded sands or gravelly sands, little or no fines
			SM	Silty sands, sand-silt mixtures
			SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (More than 1/2 of soil < No. 200 sieve size)	**SILTS & CLAYS Liquid limit < 50**		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fined sands or clayey silts
			CL	Inorganic clays of low to medium plasticity gravelly clays, sandy clays, silty clays, lean
			OL	Organic silts and organic silty clays of low plasticity
	SILTS & CLAYS Liquid limit > 50		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic clays of medium to high plasticity, organic silty clays, organic silts
HIGHLY ORGANIC SOILS			PT	Peat and other highly organic soils

GRAIN SIZE CHART

CLASSIFICATION	RANGE OF GRAIN SIZE	
	U.S. Standard Sieve Size	Grain Size in Millimeters
BOULDERS	Above 12"	Above 305
COBBLES	12" to 3"	305 to 76.2
GRAVEL Coarse Fine	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 4.76 73.2 to 19.1 19.1 to 4.76
SAND Coarse Medium Fine	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 0.075 4.76 to 2.00 2.00 to 0.420 0.420 to 0.075
Silt & Clay	Below No. 200	Below 0.075

PLASTICITY



Ardent Environmental Group, Inc.
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Corona, California 92880
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER I1

CLIENT Overton Moore Properties
PROJECT NAME Frontier - Irwindale
PROJECT NUMBER 100854001
PROJECT LOCATION 5010 Azusa Canyon Road, Irwindale
DATE STARTED 3/6/17 **COMPLETED** 3/6/17
GROUND ELEVATION _____ **HOLE SIZE** 8 inches
DRILLING CONTRACTOR J & H Drilling Company, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger/Hollow Stem Auger
AT TIME OF DRILLING ---
LOGGED BY Jon Anderson **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	PID	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0					0.5	6 inches CONCRETE.
				SM		(SM) Moderate reddish brown (10 R 4/6), damp, very dense, silty fine SAND, some coarse gravel to cobbles.
		50-50-56 (106)				
5	I1-5		0.5			
		25-50-45 (95)			7.0	
				GM		(GM) Moderate reddish brown (10 R 4/6), damp, dense, silty GRAVEL.
10	I1-10		0.0			
		28-50-46 (96)				
15	I1-15		0.1		15.0	

- No groundwater encountered.
- No petroleum hydrocarbon odor or staining noted.
- Bottom of borehole at 15.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 3/8/17 13:09 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\100854001 BL GENERAL.GPJ

Ardent Environmental Group, Inc.
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Corona, California 92880
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER I2

CLIENT Overton Moore Properties
PROJECT NAME Frontier - Irwindale
PROJECT NUMBER 100854001
PROJECT LOCATION 5010 Azusa Canyon Road, Irwindale
DATE STARTED 3/6/17 **COMPLETED** 3/6/17
GROUND ELEVATION _____ **HOLE SIZE** 8 inches
DRILLING CONTRACTOR J & H Drilling Company, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger/Hollow Stem Auger
AT TIME OF DRILLING ---
LOGGED BY Jon Anderson **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	PID	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0					0.5	6 inches CONCRETE.
						(SM) Moderate reddish brown (10 R 4/6), damp, dense, silty fine SAND, some coarse gravel to cobbles.
		50				
5	I2-5		1.8			
		25-30-50 (80)		SM		
10	I2-10		0.8			
		50-54-50 (104)				
15	I2-15		0.0		15.0	Becomes yellowish gray (5 Y 7/2), very dense.

- No groundwater encountered.
- No petroleum hydrocarbon odor or staining noted.
- Bottom of borehole at 15.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 3/8/17 13:09 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\100854001 BL GENERAL.GPJ

Ardent Environmental Group, Inc.
1827 Capital Street, Suite 103
Corona, California 92880
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER I3

CLIENT Overton Moore Properties
PROJECT NAME Frontier - Irwindale
PROJECT NUMBER 100854001
PROJECT LOCATION 5010 Azusa Canyon Road, Irwindale
DATE STARTED 3/6/17 **COMPLETED** 3/6/17
GROUND ELEVATION _____ **HOLE SIZE** 8 inches
DRILLING CONTRACTOR J & H Drilling Company, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger/Hollow Stem Auger
AT TIME OF DRILLING ---
LOGGED BY Jon Anderson **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	PID	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						6 inches CONCRETE. (0.5)
						(SM) Moderate reddish brown (10 R 4/6), damp, dense, silty fine SAND, some coarse gravel to cobbles.
5	I3-5		0.0	SM		
		45-35-50 (85)				
10	I3-10		0.0			
		50				
15	I3-15		0.9			Becomes yellowish gray (5 Y 7/2), very dense. (15.0)

- No groundwater encountered.
- No petroleum hydrocarbon odor or staining noted.
- Bottom of borehole at 15.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 3/8/17 13:09 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\100854001 BL GENERAL.GPJ

Ardent Environmental Group, Inc.
1827 Capital Street, Suite 103
Corona, California 92880
Telephone: 951-736-5334
Fax: 951-736-7560

BORING NUMBER I4

CLIENT Overton Moore Properties
PROJECT NAME Frontier - Irwindale
PROJECT NUMBER 100854001
PROJECT LOCATION 5010 Azusa Canyon Road, Irwindale
DATE STARTED 3/6/17 **COMPLETED** 3/6/17
GROUND ELEVATION _____ **HOLE SIZE** 8 inches
DRILLING CONTRACTOR J & H Drilling Company, Inc.
GROUND WATER LEVELS:
DRILLING METHOD Hand Auger/Hollow Stem Auger
AT TIME OF DRILLING ---
LOGGED BY Jon Anderson **CHECKED BY** Paul Roberts
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	PID	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						6 inches CONCRETE. (0.5)
						(SM) Moderate reddish brown (10 R 4/6), damp, medium dense, silty fine SAND, some fine gravel.
		18-25-30 (55)				
5	I4-5		0.0			
		20-25-50 (75)		SM		
10	I4-10		0.0			
						Becomes moderate yellowish brown (10 YR 4/2), with trace fine gravel.
		28-59-5 (64)				
15	I4-15		0.0			(15.0)

- No groundwater encountered.
- No petroleum hydrocarbon odor or staining noted.
- Bottom of borehole at 15.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 3/8/17 13:09 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\100854001 BL GENERAL.GPJ

APPENDIX B

LABORATORY REPORTS

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

13 March 2017

Paul Roberts
Ardent Enviromental Group, Inc.
1827 Capital St., Suite 103
Corona, CA 92880

RE: OMP - Frontier Irwindale

Enclosed are the results of analyses for samples received by the laboratory on 03/06/17 17:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Jaroudi For Lisa Nguyen
Project Manager Assistant

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/13/17 16:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
I1-10	T170546-02	Soil	03/06/17 08:38	03/06/17 17:45

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Mike Jaroudi For Lisa Nguyen, Project Manager Assistant

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/13/17 16:44

DETECTIONS SUMMARY

Sample ID: I1-10 **Laboratory ID:** T170546-02

No Results Detected

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Mike Jaroudi For Lisa Nguyen, Project Manager Assistant

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/13/17 16:44

I1-10

T170546-02 (Soil)

SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PCB-1016	ND	10	ug/kg	1	7030838	03/08/17	03/13/17	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*77.8 %*	*35-140*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*88.9 %*	*35-140*		"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Mike Jaroudi For Lisa Nguyen, Project Manager Assistant

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/13/17 16:44

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7030838 - EPA 3550 ECD/GCMS										
Blank (7030838-BLK1)				Prepared: 03/08/17 Analyzed: 03/13/17						
PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	*8.37*		*"*	*9.90*		*84.6*	*35-140*			
Surrogate: Decachlorobiphenyl	*9.85*		*"*	*9.90*		*99.5*	*35-140*			
LCS (7030838-BS1)				Prepared: 03/08/17 Analyzed: 03/13/17						
PCB-1016	92.0	10	ug/kg	102		90.2	40-130			
PCB-1260	81.0	10	"	102		79.4	40-130			
Surrogate: Tetrachloro-meta-xylene	*7.48*		*"*	*10.2*		*73.3*	*35-140*			
Surrogate: Decachlorobiphenyl	*8.50*		*"*	*10.2*		*83.3*	*35-140*			
LCS Dup (7030838-BSD1)				Prepared: 03/08/17 Analyzed: 03/13/17						
PCB-1016	84.3	10	ug/kg	98.0		86.0	40-130	8.76	30	
PCB-1260	75.2	10	"	98.0		76.7	40-130	7.46	30	
Surrogate: Tetrachloro-meta-xylene	*8.09*		*"*	*9.80*		*82.6*	*35-140*			
Surrogate: Decachlorobiphenyl	*8.69*		*"*	*9.80*		*88.7*	*35-140*			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Mike Jaroudi For Lisa Nguyen, Project Manager Assistant

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/13/17 16:44

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Mike Jaroudi For Lisa Nguyen, Project Manager Assistant

SunStar Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: ARCADIS ENVIRONMENTAL GROUP INC.
Address: 1827 CAPITAL STREET, Suite 103
Phone: 1-951-736-5334 Fax:
Project Manager: Paul Roberts / Heidi

Date: 3-6-2017 Page: 1 Of 1
Project Name: OMP-FRONTIER IRWINDALE
Collector: Jon Anderson Client Project #: 10085400I
Batch #: 770546 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260B	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Hold			Laboratory ID #	Comments/Preservative	Total # of containers
I1-5'	3-6-17	8:24	Soil	SS Sleeve											X			01	Report TPHcc as C6-C12, C13-C22 C23-C32 run Highest TPHcc sample for PCBs.	
I1-10'		8:38			X							X						02		
I1-15'		8:45													X			03		
I2-5'		9:23													X			04		
I2-10'		9:33			X							X						05		
I2-15'		9:44													X			06		
I3-5'		11:10													X			07		
I3-10'		11:28			X							X						08		
I3-15'		11:38													X			09		
I4-5'		12:08													X			10		
I4-10'		12:13			X							X						11		
I4-15'		12:22													X			12		

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	3-6-17 1745		3-6-17 1745
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold 4.8°

Turn around time: STD

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 160078

SunStar Laboratories — Celebrating 20 Years!

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 1170546

Client Name: ARDENT

Project: OMP- FRONTIER /RIVERSIDE

Delivered by: ☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: DAN Date/Time Lab Received: 3.6.17 / 17:45

Total number of coolers received: 6

Temperature:	Cooler #1 5.0	°C +/- the CF (- 0.2°C) = 4.8	°C corrected temperature
Temperature:	Cooler #2	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature:	Cooler #3	°C +/- the CF (- 0.2°C) =	°C corrected temperature

Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☒ **Yes** ☐ **No**
If NO:		
Samples received on ice?	☐ Yes	☐ **No → Complete Non-Conformance Sheet**
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ **No → Complete Non-Conformance Sheet**

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☐ Yes	☐ No*	☒ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☒ **Yes**	☐ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: SL 3.7.17

Comments:

(949) 297-5020 ■ www.sunstarlabs.com ■ 25712 Commercentre Drive ■ Lake Forest, CA 92630

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T170546

Client:	**Ardent Enviromental Group, Inc.**	**Project Manager:**	**Lisa Nguyen**
Project:	**OMP - Frontier Irwindale**	**Project Number:**	**100854001**

Report To:

Ardent Enviromental Group, Inc.
Paul Roberts
1827 Capital St., Suite 103
Corona, CA 92880

Date Due:	03/14/17 17:00 (5 day TAT)		
Received By:	Dan Marteski	Date Received:	03/06/17 17:45
Logged In By:	Sunny Lounethone	Date Logged In:	03/07/17 09:16

Samples Received at: **4.8°C**

Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirı	No		

Analysis	Due	TAT	Expires	Comments
T170546-01 I1-5 [Soil] Sampled 03/06/17 08:28 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-02 I1-10 [Soil] Sampled 03/06/17 08:38 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	03/10/17 15:00	3	03/20/17 08:38	C6-C12, C13-C22, C23-C32
8260	03/10/17 15:00	3	03/20/17 08:38	
T170546-03 I1-15 [Soil] Sampled 03/06/17 08:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-04 I2-5 [Soil] Sampled 03/06/17 09:23 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-05 I2-10 [Soil] Sampled 03/06/17 09:33 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	03/10/17 15:00	3	03/20/17 09:33	C6-C12, C13-C22, C23-C32
8260	03/10/17 15:00	3	03/20/17 09:33	
T170546-06 I2-15 [Soil] Sampled 03/06/17 09:44 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T170546

Client:	**Ardent Enviromental Group, Inc.**	**Project Manager:**	**Lisa Nguyen**
Project:	**OMP - Frontier Irwindale**	**Project Number:**	**100854001**

Analysis	Due	TAT	Expires	Comments
T170546-07 I3-5 [Soil] Sampled 03/06/17 11:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-08 I3-10 [Soil] Sampled 03/06/17 11:28 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	03/10/17 15:00	3	03/20/17 11:28	C6-C12, C13-C22, C23-C32
8260	03/10/17 15:00	3	03/20/17 11:28	
T170546-09 I3-15 [Soil] Sampled 03/06/17 11:38 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-10 I4-5 [Soil] Sampled 03/06/17 12:08 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-11 I4-10 [Soil] Sampled 03/06/17 12:13 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	03/10/17 15:00	3	03/20/17 12:13	C6-C12, C13-C22, C23-C32
8260	03/10/17 15:00	3	03/20/17 12:13	
T170546-12 I4-15 [Soil] Sampled 03/06/17 12:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

Reviewed By

Date

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T170546

Client: **Ardent Enviromental Group, Inc.** **Project Manager:** **Lisa Nguyen**
Project: **OMP - Frontier Irwindale** **Project Number:** **100854001**

Report To:
Ardent Enviromental Group, Inc.
Paul Roberts
1827 Capital St., Suite 103
Corona, CA 92880

Date Due:	03/14/17 17:00 (5 day TAT)		
Received By:	Dan Marteski	Date Received:	03/06/17 17:45
Logged In By:	Sunny Lounethone	Date Logged In:	03/07/17 09:16

Samples Received at: **4.8°C**

Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirı	No		

Analysis	Due	TAT	Expires	Comments
T170546-01 I1-5 [Soil] Sampled 03/06/17 08:28 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-02 I1-10 [Soil] Sampled 03/06/17 08:38 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	03/10/17 15:00	3	03/20/17 08:38	C6-C12, C13-C22, C23-C32
8082 PCB	03/13/17 15:00	1	03/20/17 08:38	
8260	03/10/17 15:00	3	03/20/17 08:38	
T170546-03 I1-15 [Soil] Sampled 03/06/17 08:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-04 I2-5 [Soil] Sampled 03/06/17 09:23 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-05 I2-10 [Soil] Sampled 03/06/17 09:33 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	03/10/17 15:00	3	03/20/17 09:33	C6-C12, C13-C22, C23-C32
8260	03/10/17 15:00	3	03/20/17 09:33	
T170546-06 I2-15 [Soil] Sampled 03/06/17 09:44 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T170546

Client: Ardent Enviromental Group, Inc. **Project Manager:** Lisa Nguyen
Project: OMP - Frontier Irwindale **Project Number:** 100854001

Analysis	Due	TAT	Expires	Comments
T170546-07 I3-5 [Soil] Sampled 03/06/17 11:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-08 I3-10 [Soil] Sampled 03/06/17 11:28 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	03/10/17 15:00	3	03/20/17 11:28	C6-C12, C13-C22, C23-C32
8260	03/10/17 15:00	3	03/20/17 11:28	
T170546-09 I3-15 [Soil] Sampled 03/06/17 11:38 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-10 I4-5 [Soil] Sampled 03/06/17 12:08 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-11 I4-10 [Soil] Sampled 03/06/17 12:13 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	03/10/17 15:00	3	03/20/17 12:13	C6-C12, C13-C22, C23-C32
8260	03/10/17 15:00	3	03/20/17 12:13	
T170546-12 I4-15 [Soil] Sampled 03/06/17 12:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

Reviewed By Date

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

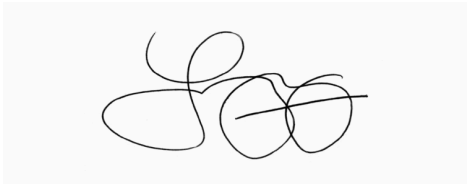
10 March 2017

Paul Roberts
Ardent Enviromental Group, Inc.
1827 Capital St., Suite 103
Corona, CA 92880

RE: OMP - Frontier Irwindale

Enclosed are the results of analyses for samples received by the laboratory on 03/06/17 17:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lisa Nguyen
Project Manager Assistant

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

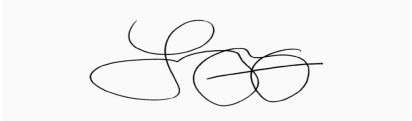
25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
I1-10	T170546-02	Soil	03/06/17 08:38	03/06/17 17:45
I2-10	T170546-05	Soil	03/06/17 09:33	03/06/17 17:45
I3-10	T170546-08	Soil	03/06/17 11:28	03/06/17 17:45
I4-10	T170546-11	Soil	03/06/17 12:13	03/06/17 17:45

SunStar Laboratories, Inc.



Lisa Nguyen, Project Manager Assistant

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Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

DETECTIONS SUMMARY

Sample ID: I1-10 **Laboratory ID:** T170546-02

No Results Detected

Sample ID: I2-10 **Laboratory ID:** T170546-05

No Results Detected

Sample ID: I3-10 **Laboratory ID:** T170546-08

No Results Detected

Sample ID: I4-10 **Laboratory ID:** T170546-11

No Results Detected

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Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

I1-10

T170546-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C23-C32 (MORO)	ND	10	mg/kg	1	7030725	03/07/17	03/08/17	EPA 8015B	
C13-C22 (DRO)	ND	10	"	"	"	"	"	"	
C6-C12 (GRO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*106 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	5.0	ug/kg	1	7030719	03/07/17	03/07/17	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	

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Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

I1-10

T170546-02 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	7030719	03/07/17	03/07/17	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	

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1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

I1-10

T170546-02 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
o-Xylene	ND	5.0	ug/kg	1	7030719	03/07/17	03/07/17	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*118 %*	*95.7-135*		"	"	"	"	
Surrogate: Toluene-d8		*97.9 %*	*85.5-116*		"	"	"	"	

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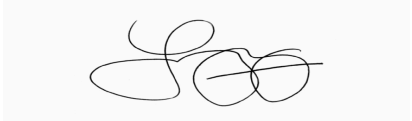

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Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

I2-10

T170546-05 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C13-C22 (DRO)	ND	10	mg/kg	1	7030725	03/07/17	03/08/17	EPA 8015B	
C23-C32 (MORO)	ND	10	"	"	"	"	"	"	
C6-C12 (GRO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*106 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	5.0	ug/kg	1	7030719	03/07/17	03/08/17	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	

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Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

I2-10

T170546-05 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	7030719	03/07/17	03/08/17	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	

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Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

I2-10

T170546-05 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
o-Xylene	ND	5.0	ug/kg	1	7030719	03/07/17	03/08/17	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*104 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*118 %*	*95.7-135*		"	"	"	"	
Surrogate: Toluene-d8		*93.9 %*	*85.5-116*		"	"	"	"	

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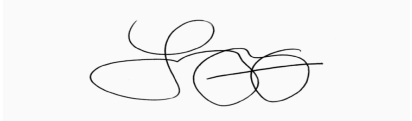

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Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

I3-10

T170546-08 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C23-C32 (MORO)	ND	10	mg/kg	1	7030725	03/07/17	03/08/17	EPA 8015B	
C13-C22 (DRO)	ND	10	"	"	"	"	"	"	
C6-C12 (GRO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*107 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	5.0	ug/kg	1	7030719	03/07/17	03/08/17	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	

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Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

I3-10

T170546-08 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	7030719	03/07/17	03/08/17	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	

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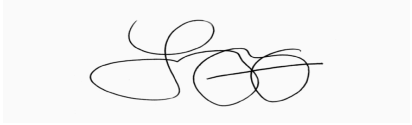

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Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

I3-10

T170546-08 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
o-Xylene	ND	5.0	ug/kg	1	7030719	03/07/17	03/08/17	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*110 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*95.7-135*		"	"	"	"	
Surrogate: Toluene-d8		*96.9 %*	*85.5-116*		"	"	"	"	

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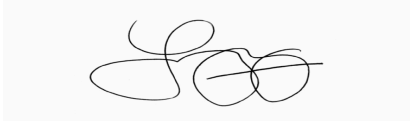

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Ardent Enviromental Group, Inc.	Project: OMP - Frontier Irwindale	
1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

I4-10

T170546-11 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015B									
C23-C32 (MORO)	ND	10	mg/kg	1	7030725	03/07/17	03/08/17	EPA 8015B	
C13-C22 (DRO)	ND	10	"	"	"	"	"	"	
C6-C12 (GRO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*107 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Bromobenzene	ND	5.0	ug/kg	1	7030719	03/07/17	03/08/17	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	

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1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

I4-10

T170546-11 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
cis-1,2-Dichloroethene	ND	5.0	ug/kg	1	7030719	03/07/17	03/08/17	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	

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1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

I4-10

T170546-11 (Soil)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
o-Xylene	ND	5.0	ug/kg	1	7030719	03/07/17	03/08/17	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		*105 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*124 %*	*95.7-135*		"	"	"	"	
Surrogate: Toluene-d8		*96.9 %*	*85.5-116*		"	"	"	"	

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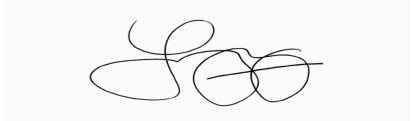

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1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

Extractable Petroleum Hydrocarbons by 8015B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7030725 - EPA 3550B GC										
Blank (7030725-BLK1)				Prepared: 03/07/17 Analyzed: 03/08/17						
C13-C22 (DRO)	ND	10	mg/kg							
C23-C32 (MORO)	ND	10	"							
C6-C12 (GRO)	ND	10	"							
Surrogate: p-Terphenyl	*109*		*"*	*100*		*109*	*65-135*			
LCS (7030725-BS1)				Prepared: 03/07/17 Analyzed: 03/08/17						
C13-C28 (DRO)	560	10	mg/kg	500		113	75-125			
Surrogate: p-Terphenyl	*83.1*		*"*	*100*		*83.1*	*65-135*			
LCS Dup (7030725-BSD1)				Prepared: 03/07/17 Analyzed: 03/08/17						
C13-C28 (DRO)	580	10	mg/kg	500		117	75-125	3.49	20	
Surrogate: p-Terphenyl	*86.0*		*"*	*100*		*86.0*	*65-135*			

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1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7030719 - EPA 5030 GCMS										
Blank (7030719-BLK1)				Prepared & Analyzed: 03/07/17						
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	10	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Isopropylbenzene	ND	5.0	"							

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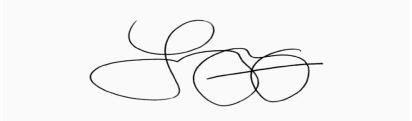

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1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7030719 - EPA 5030 GCMS										
Blank (7030719-BLK1)				Prepared & Analyzed: 03/07/17						
p-Isopropyltoluene	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Surrogate: 4-Bromofluorobenzene	*43.4*		*"*	*39.8*		*109*	*81.2-123*			
Surrogate: Dibromofluoromethane	*45.8*		*"*	*39.8*		*115*	*95.7-135*			
Surrogate: Toluene-d8	*39.7*		*"*	*39.8*		*99.8*	*85.5-116*			
LCS (7030719-BS1)				Prepared: 03/07/17 Analyzed: 03/08/17						
Chlorobenzene	99.4	5.0	ug/kg	100		99.4	75-125			
1,1-Dichloroethene	92.2	5.0	"	100		92.2	75-125			
Trichloroethene	88.4	5.0	"	100		88.4	75-125			
Benzene	93.8	5.0	"	100		93.8	75-125			
Toluene	91.4	5.0	"	100		91.4	75-125			
Surrogate: 4-Bromofluorobenzene	*43.1*		*"*	*40.0*		*108*	*81.2-123*			
Surrogate: Dibromofluoromethane	*49.6*		*"*	*40.0*		*124*	*95.7-135*			
Surrogate: Toluene-d8	*37.5*		*"*	*40.0*		*93.8*	*85.5-116*			

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1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7030719 - EPA 5030 GCMS										
LCS Dup (7030719-BSD1)				Prepared: 03/07/17 Analyzed: 03/08/17						
Chlorobenzene	112	5.0	ug/kg	99.6		113	75-125	12.0	20	
1,1-Dichloroethene	106	5.0	"	99.6		106	75-125	13.5	20	
Trichloroethene	101	5.0	"	99.6		102	75-125	13.5	20	
Benzene	104	5.0	"	99.6		104	75-125	10.3	20	
Toluene	105	5.0	"	99.6		105	75-125	13.6	20	
Surrogate: 4-Bromofluorobenzene	*44.4*		*"*	*39.8*		*112*	*81.2-123*			
Surrogate: Dibromofluoromethane	*50.5*		*"*	*39.8*		*127*	*95.7-135*			
Surrogate: Toluene-d8	*38.1*		*"*	*39.8*		*95.6*	*85.5-116*			

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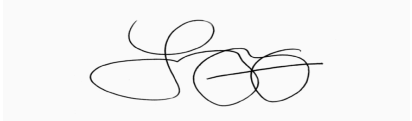

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1827 Capital St., Suite 103	Project Number: 100854001	**Reported:**
Corona CA, 92880	Project Manager: Paul Roberts	03/10/17 11:25

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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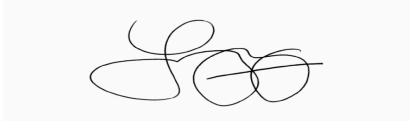

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Chain of Custody Record

Client: ARCADIS ENVIRONMENTAL GROUP INC.
Address: 1827 CAPITAL STREET, Suite 103
Phone: 1-951-736-5334 Fax:
Project Manager: Paul Roberts / Heidi

Date: 3-6-2017 Page: 1 Of 1
Project Name: OMP-FRONTIER IRWINDALE
Collector: Jon Anderson Client Project #: 10085400I
Batch #: 770546 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260B	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Hold			Laboratory ID #	Comments/Preservative	Total # of containers
I1-5'	3-6-17	8:24	Soil	SS Sleeve											X			01	Report TPHcc as C6-C12, C13-C22 C23-C32 run Highest TPHcc sample for PCBs.	
I1-10'		8:38			X							X						02		
I1-15'		8:45													X			03		
I2-5'		9:23													X			04		
I2-10'		9:33			X							X						05		
I2-15'		9:44													X			06		
I3-5'		11:10													X			07		
I3-10'		11:28			X							X						08		
I3-15'		11:38													X			09		
I4-5'		12:08													X			10		
I4-10'		12:13			X							X						11		
I4-15'		12:22													X			12		

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
	3-6-17 1745		3-6-17 1745
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers
Chain of Custody seals Y/N/NA
Seals intact? Y/N/NA
Received good condition/cold 4.8°

Turn around time: STD

Notes

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 160078

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SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 1170546

Client Name: ARDENT

Project: OMP- FRONTIER /RIVERSIDE

Delivered by: ☒ Client ☐ SunStar Courier ☐ GSO ☐ FedEx ☐ Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: DAN Date/Time Lab Received: 3.6.17 / 17:45

Total number of coolers received: 6

Temperature:	Cooler #1 5.0	°C +/- the CF (- 0.2°C) = 4.8	°C corrected temperature
Temperature:	Cooler #2	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature:	Cooler #3	°C +/- the CF (- 0.2°C) =	°C corrected temperature

Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	☒ **Yes** ☐ **No**
If NO:		
Samples received on ice?	☐ Yes	☐ **No → Complete Non-Conformance Sheet**
If on ice, samples received same day collected?	☐ Yes → Acceptable	☐ **No → Complete Non-Conformance Sheet**

Custody seals intact on cooler/sample	☐ Yes	☐ No*	☒ N/A
Sample containers intact	☒ Yes	☐ No*	
Sample labels match Chain of Custody IDs	☒ Yes	☐ No*	
Total number of containers received match COC	☒ Yes	☐ No*	
Proper containers received for analyses requested on COC	☒ Yes	☐ No*	
Proper preservative indicated on COC/containers for analyses requested	☐ Yes	☐ No*	☒ N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	☒ **Yes**	☐ **No***	

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date: SL 3.7.17

Comments:

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SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T170546

Client:	**Ardent Enviromental Group, Inc.**	**Project Manager:**	**Lisa Nguyen**
Project:	**OMP - Frontier Irwindale**	**Project Number:**	**100854001**

Report To:

Ardent Enviromental Group, Inc.
Paul Roberts
1827 Capital St., Suite 103
Corona, CA 92880

Date Due:	03/14/17 17:00 (5 day TAT)		
Received By:	Dan Marteski	Date Received:	03/06/17 17:45
Logged In By:	Sunny Lounethone	Date Logged In:	03/07/17 09:16

Samples Received at: **4.8°C**

Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirı	No		

Analysis	Due	TAT	Expires	Comments
T170546-01 I1-5 [Soil] Sampled 03/06/17 08:28 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-02 I1-10 [Soil] Sampled 03/06/17 08:38 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	03/10/17 15:00	3	03/20/17 08:38	C6-C12, C13-C22, C23-C32
8260	03/10/17 15:00	3	03/20/17 08:38	
T170546-03 I1-15 [Soil] Sampled 03/06/17 08:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-04 I2-5 [Soil] Sampled 03/06/17 09:23 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-05 I2-10 [Soil] Sampled 03/06/17 09:33 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	03/10/17 15:00	3	03/20/17 09:33	C6-C12, C13-C22, C23-C32
8260	03/10/17 15:00	3	03/20/17 09:33	
T170546-06 I2-15 [Soil] Sampled 03/06/17 09:44 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

WORK ORDER

T170546

Client:	**Ardent Enviromental Group, Inc.**	**Project Manager:**	**Lisa Nguyen**
Project:	**OMP - Frontier Irwindale**	**Project Number:**	**100854001**

Analysis	Due	TAT	Expires	Comments
T170546-07 I3-5 [Soil] Sampled 03/06/17 11:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-08 I3-10 [Soil] Sampled 03/06/17 11:28 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	03/10/17 15:00	3	03/20/17 11:28	C6-C12, C13-C22, C23-C32
8260	03/10/17 15:00	3	03/20/17 11:28	
T170546-09 I3-15 [Soil] Sampled 03/06/17 11:38 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-10 I4-5 [Soil] Sampled 03/06/17 12:08 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T170546-11 I4-10 [Soil] Sampled 03/06/17 12:13 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	03/10/17 15:00	3	03/20/17 12:13	C6-C12, C13-C22, C23-C32
8260	03/10/17 15:00	3	03/20/17 12:13	
T170546-12 I4-15 [Soil] Sampled 03/06/17 12:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

Reviewed By

Date

JONES ENVIRONMENTAL, INC.

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Ardent Environmental Group, Inc.	**Report date:**	3/8/2017
Client Address:	1827 Capital Street, Suite 103 Corona, CA 92880	**JEL Ref. No.:** **Client Ref. No.:**	D-1270 100854001
Attn:	Heidi Heggeness	**Date Sampled:** **Date Received:**	3/8/2017 3/8/2017
Project Name:	OMP - Irwindale	**Date Analyzed:**	3/8/2017
Project Address:	5010 Azusa Canyon Road Irwindale, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B - Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval:

Carolyn Carroll
Stationary Lab Manager

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ardent Environmental Group, Inc.	**Report date:**	3/8/2017
Client Address:	1827 Capital Street, Suite 103 Corona, CA 92880	**Jones Ref. No.:** **Client Ref. No.:**	D-1270 100854001
Attn:	Heidi Heggeness	**Date Sampled:**	3/8/2017
		Date Received:	3/8/2017
Project:	OMP - Irwindale	**Date Analyzed:**	3/8/2017
Project Address:	5010 Azusa Canyon Road Irwindale, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**I15-SS**	**I16-SS**	**I17-SS**	**I5-SS**	**I6-SS**		
Jones ID:	**D-1270-01**	**D-1270-02**	**D-1270-03**	**D-1270-04**	**D-1270-05**	**Practical Quantitation Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Dichlorodifluoromethane	**0.058**	ND	**0.032**	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**I15-SS**	**I16-SS**	**I17-SS**	**I5-SS**	**I6-SS**		
Jones ID:	**D-1270-01**	**D-1270-02**	**D-1270-03**	**D-1270-04**	**D-1270-05**	**Practical Quantitation Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Freon 113	**0.120**	**0.132**	**0.284**	ND	ND	0.100	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Tetrachloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Toluene	ND	ND	ND	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.100	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	**0.386**	**0.514**	**1.20**	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	µg/L
m,p-Xylene	ND	ND	ND	ND	ND	0.020	µg/L
o-Xylene	ND	ND	ND	ND	ND	0.020	µg/L
MTBE	ND	ND	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	1.00	µg/L
TIC:							
n-Pentane	ND	ND	ND	ND	ND	1.00	µg/L
n-Hexane	ND	ND	ND	ND	ND	1.00	µg/L
n-Heptane	ND	ND	ND	ND	ND	1.00	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	115%	106%	104%	118%	108%	60 - 140	
Toluene-d_8	99%	90%	89%	96%	82%	60 - 140	
4-Bromofluorobenzene	102%	88%	88%	99%	89%	60 - 140	
	E2-030817-D-1269	D1-030817-D-1269	D1-030817-D-1269	E2-030817-D-1269	D1-030817-D-1269		

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ardent Environmental Group, Inc.	**Report date:**	3/8/2017
Client Address:	1827 Capital Street, Suite 103 Corona, CA 92880	**Jones Ref. No.:** **Client Ref. No.:**	D-1270 100854001
Attn:	Heidi Heggeness	**Date Sampled:** **Date Received:**	3/8/2017 3/8/2017
Project:	OMP - Irwindale	**Date Analyzed:**	3/8/2017
Project Address:	5010 Azusa Canyon Road Irwindale, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**I7-SS**	**I7-SS REP**	**I8-SS**	**I9-SS**	**I10-SS**		
Jones ID:	**D-1270-06**	**D-1270-07**	**D-1270-08**	**D-1270-09**	**D-1270-10**	**Practical Quantitation Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
Dichlorodifluoromethane	**0.058**	**0.055**	**0.040**	ND	**0.029**	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**I7-SS**	**I7-SS REP**	**I8-SS**	**I9-SS**	**I10-SS**		
Jones ID:	**D-1270-06**	**D-1270-07**	**D-1270-08**	**D-1270-09**	**D-1270-10**	**Practical Quantitation Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Freon 113	ND	ND	ND	ND	ND	0.100	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Tetrachloroethene	ND	**0.020**	ND	ND	**0.048**	0.020	µg/L
Toluene	ND	ND	ND	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.100	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	**0.026**	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	µg/L
m,p-Xylene	ND	ND	ND	ND	ND	0.020	µg/L
o-Xylene	ND	ND	ND	ND	ND	0.020	µg/L
MTBE	ND	ND	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	1.00	µg/L
TIC:							
n-Pentane	ND	ND	ND	ND	ND	1.00	µg/L
n-Hexane	ND	ND	ND	ND	ND	1.00	µg/L
n-Heptane	ND	ND	ND	ND	ND	1.00	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	119%	120%	105%	104%	119%	60 - 140	
Toluene-d_8	98%	99%	84%	84%	98%	60 - 140	
4-Bromofluorobenzene	100%	95%	87%	93%	96%	60 - 140	
	E2-030817-D-1269	E2-030817-D-1269	D1-030817-D-1269	D1-030817-D-1269	E2-030817-D-1269		

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Ardent Environmental Group, Inc.	**Report date:**	3/8/2017
Client Address:	1827 Capital Street, Suite 103 Corona, CA 92880	**Jones Ref. No.:** **Client Ref. No.:**	D-1270 100854001
Attn:	Heidi Heggeness	**Date Sampled:** **Date Received:**	3/8/2017 3/8/2017
Project:	OMP - Irwindale	**Date Analyzed:**	3/8/2017
Project Address:	5010 Azusa Canyon Road Irwindale, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**I11-SS**	**I13-SS**	**I14-SS**		
Jones ID:	**D-1270-11**	**D-1270-12**	**D-1270-13**	**Practical Quantitation Limit**	**Units**
Analytes:					
Benzene	ND	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	ND	0.020	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**I11-SS**	**I13-SS**	**I14-SS**		
Jones ID:	**D-1270-11**	**D-1270-12**	**D-1270-13**	**Practical Quantitation Limit**	**Units**
Analytes:					
cis-1,3-Dichloropropene	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	ND	0.020	µg/L
Freon 113	ND	ND	ND	0.100	µg/L
Hexachlorobutadiene	ND	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.020	µg/L
Tetrachloroethene	ND	ND	ND	0.020	µg/L
Toluene	ND	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	0.100	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	0.020	µg/L
m,p-Xylene	ND	ND	ND	0.020	µg/L
o-Xylene	ND	ND	ND	0.020	µg/L
MTBE	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	1.00	µg/L
TIC:					
n-Pentane	ND	ND	ND	1.00	µg/L
n-Hexane	ND	ND	ND	1.00	µg/L
n-Heptane	ND	ND	ND	1.00	µg/L
Dilution Factor	1	1	1		
Surrogate Recoveries:				**QC Limits**	
Dibromofluoromethane	105%	116%	120%	60 - 140	
Toluene-d_8	86%	96%	92%	60 - 140	
4-Bromofluorobenzene	85%	94%	95%	60 - 140	
	D1-030817-D-1269	E2-030817-D-1269	E2-030817-D-1269		

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ardent Environmental Group, Inc.	**Report date:**	3/8/2017
Client Address:	1827 Capital Street, Suite 103 Corona, CA 92880	**Jones Ref. No.:** **Client Ref. No.:**	D-1270 100854001
Attn:	Heidi Heggeness	**Date Sampled:**	3/8/2017
		Date Received:	3/8/2017
Project:	OMP - Irwindale	**Date Analyzed:**	3/8/2017
Project Address:	5010 Azusa Canyon Road Irwindale, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK	METHOD BLANK	SAMPLING BLANK		
Jones ID:	030817-D1MB1	030817-D1SB1	030817-E2MB1	030817-E2SB1	**Practical Quantitation Limit**	**Units**
Analytes:						
Benzene	ND	ND	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	0.020	µg/L

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK	METHOD BLANK	SAMPLING BLANK		
Jones ID:	030817-D1MB1	030817-D1SB1	030817-E2MB1	030817-E2SB1	**Practical Quantitation Limit**	**Units**
Analytes:						
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	ND	ND	0.020	µg/L
Freon 113	ND	ND	ND	ND	0.100	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	ND	0.100	µg/L
n-Propylbenzene	ND	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.020	µg/L
Tetrachloroethene	ND	ND	ND	ND	0.020	µg/L
Toluene	ND	ND	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	0.100	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	0.020	µg/L
Trichloroethene	ND	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	ND	0.020	µg/L
m,p-Xylene	ND	ND	ND	ND	0.020	µg/L
o-Xylene	ND	ND	ND	ND	0.020	µg/L
MTBE	ND	ND	ND	ND	0.100	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	0.100	µg/L
Di-isopropylether	ND	ND	ND	ND	0.100	µg/L
tert-amylmethylether	ND	ND	ND	ND	0.100	µg/L
tert-Butylalcohol	ND	ND	ND	ND	1.00	µg/L
TIC:						
n-Pentane	ND	ND	ND	ND	1.00	µg/L
n-Hexane	ND	ND	ND	ND	1.00	µg/L
n-Heptane	ND	ND	ND	ND	1.00	µg/L
Dilution Factor	1	1	1	1		
Surrogate Recoveries:					**QC Limits**	
Dibromofluoromethane	99%	97%	114%	114%	60 - 140	
Toluene-d_8	89%	88%	98%	97%	60 - 140	
4-Bromofluorobenzene	88%	88%	102%	98%	60 - 140	
	D1-030817-D-1269	D1-030817-D-1269	E2-030817-D-1269	E2-030817-D-1269		

ND= Not Detected

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ardent Environmental Group, Inc.	**Report date:**	3/8/2017
Client Address:	1827 Capital Street, Suite 103 Corona, CA 92880	**Jones Ref. No.:** **Client Ref. No.:**	D-1270 100854001
Attn:	Heidi Heggeness	**Date Sampled:** **Date Received:**	3/8/2017 3/8/2017
Project:	OMP - Irwindale	**Date Analyzed:**	3/8/2017
Project Address:	5010 Azusa Canyon Road Irwindale, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: D1-030817-D-1269

Jones ID:	**030817-D1LCS1**	**030817-D1LCSD1**			**030817-D1CCV1**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	126%	123%	2.4%	70 - 130	113%	80 - 120
1,1-Dichloroethene	95%	89%	5.9%	70 - 130	101%	80 - 120
Cis-1,2-Dichloroethene	107%	101%	5.2%	70 - 130	100%	80 - 120
1,1,1-Trichloroethane	95%	89%	6.2%	70 - 130	92%	80 - 120
Benzene	98%	97%	1.5%	70 - 130	90%	80 - 120
Trichloroethene	102%	102%	0.2%	70 - 130	100%	80 - 120
Toluene	98%	90%	7.9%	70 - 130	94%	80 - 120
Tetrachloroethene	97%	87%	10.8%	70 - 130	93%	80 - 120
Chlorobenzene	102%	97%	5.2%	70 - 130	89%	80 - 120
Ethylbenzene	102%	94%	8.3%	70 - 130	95%	80 - 120
1,2,4 Trimethylbenzene	106%	99%	6.9%	70 - 130	100%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	100%	102%		60 - 140	102%	60 - 140
Toluene-d_8	89%	87%		60 - 140	91%	60 - 140
4-Bromofluorobenzene	86%	87%		60 - 140	93%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Ardent Environmental Group, Inc.	**Report date:**	3/8/2017
Client Address:	1827 Capital Street, Suite 103 Corona, CA 92880	**Jones Ref. No.:** **Client Ref. No.:**	D-1270 100854001
Attn:	Heidi Heggeness	**Date Sampled:** **Date Received:**	3/8/2017 3/8/2017
Project:	OMP - Irwindale	**Date Analyzed:**	3/8/2017
Project Address:	5010 Azusa Canyon Road Irwindale, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: E2-030817-D-1269

Jones ID:	**030817-E2LCS1**	**030817-E2LCSD1**			**030817-E2CCV1**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	99%	97%	1.2%	70 - 130	109%	80 - 120
1,1-Dichloroethene	97%	106%	9.2%	70 - 130	114%	80 - 120
Cis-1,2-Dichloroethene	113%	114%	1.1%	70 - 130	93%	80 - 120
1,1,1-Trichloroethane	111%	128%	13.8%	70 - 130	93%	80 - 120
Benzene	129%	137%	6.5%	70 - 130	132%	80 - 120
Trichloroethene	104%	105%	1.5%	70 - 130	103%	80 - 120
Toluene	110%	108%	1.9%	70 - 130	110%	80 - 120
Tetrachloroethene	108%	111%	2.8%	70 - 130	98%	80 - 120
Chlorobenzene	104%	113%	8.8%	70 - 130	102%	80 - 120
Ethylbenzene	106%	112%	4.8%	70 - 130	101%	80 - 120
1,2,4 Trimethylbenzene	111%	116%	4.3%	70 - 130	108%	80 - 120
a						
Surrogate Recovery:						
Dibromofluoromethane	101%	105%		60 - 140	101%	60 - 140
Toluene-d_8	97%	101%		60 - 140	90%	60 - 140
4-Bromofluorobenzene	106%	102%		60 - 140	104%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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Soil-Gas Chain-of-Custody Record

Client: **Ardent Environmental Group, Inc.**
Project Name: **OMP - Irwindale**
Project Address: **5010 Azusa Canyon Rd.**
Irwindale, CA
Email:
Phone: **(562)235-6349**
Report To: **Heidi Heggeness**
Sampler: **Angela Haar**

Date: 3/8/2017
Client Project #: 100854001

Purge Number: □ 1P ☒ 3P □ 7P □ 10P
Shut-In Test: (Y) / N

Report Options: EDD ____ EDF* - 10% Surcharge____ *Global ID _____

LAB USE ONLY
Jones Project # **D-1270**

Page 1 of 2

Sample Container: GASTIGHT GLASS SYRINGE
different than above, see Notes.

Turn Around Requested
- □ Immediate Attention
- □ Rush 24 Hours
- □ Rush 48 Hours
- □ Rush 72 Hours
- □ Normal
- ☒ Mobile Lab

Tracer
- ☒ n-pentane
- ☒ n-hexane
- ☒ n-heptane
- □ Helium
- □ 1,1-DFA
- □ _____

Reporting Limits Requested: ☒ Commercial □ Residential
Units: ug/L

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)				Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
I15-SS	3	131	3/8/17	12:37	12:42	D-1270-01	~200	HAND PURGE	M100.111	SG	X				20	1	
I16-SS	3	131	3/8/17	12:40	12:43	D-1270-02	~200	HAND PURGE	M100.111	SG	X				10	1	
I17-SS	3	131	3/8/17	12:54	12:58	D-1270-03	~200	HAND PURGE	M100.111	SG	X				2	1	
I5-SS	3	131	3/8/17	12:56	12:59	D-1270-04	~200	HAND PURGE	M100.111	SG	X				2	1	
I6-SS	3	131	3/8/17	13:09	13:17	D-1270-05	~200	HAND PURGE	M100.111	SG	X				2	1	
I7-SS	3	131	3/8/17	13:11	13:15	D-1270-06	~200	HAND PURGE	M100.111	SG	X				6	1	
I7-SS REP	3	131	3/8/17	13:24	13:32	D-1270-07	~200	HAND PURGE	M100.111	SG	X				6	1	
I8-SS	3	131	3/8/17	13:28	13:38	D-1270-08	~200	HAND PURGE	M100.111	SG	X				2	1	
I9-SS	3	131	3/8/17	13:40	14:00	D-1270-09	~200	HAND PURGE	M100.111	SG	X				<2	1	
I10-SS	3	131	3/8/17	13:42	13:50	D-1270-10	~200	HAND PURGE	M100.111	SG	X				<2	1	

Relinquished By (Signature): [signature] Printed Name: Joshua Roberts
Company: Ardent Environmental Date: 3-8-17 Time: 3:15

Received By (Signature): [signature] Printed Name: ANGELA HAAR
Company: JONES ENVIRONMENTAL, INC. Date: 3/8/2017 Time: 1505

Total Number of Containers: 10

Relinquished By (Signature) Printed Name
Company Date Time

Received By Laboratory (Signature) Printed Name
Company Date Time

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.

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Soil-Gas Chain-of-Custody Record

Client: Ardent Environmental Group, Inc.
Project Name: OMP - Irwindale
Project Address: 5010 Azusa Canyon Rd.
Irwindale, CA
Email:
Phone: (562)235-6349
Report To: Heidi Heggeness
Sampler: Angela Haar

Date: 3/8/2017
Client Project #: 100854001

Purge Number: □ 1P ☒ 3P □ 7P □ 10P
Shut-In Test: (Y) / N

Report Options: EDD ____ EDF* - 10% Surcharge____ *Global ID _____

LAB USE ONLY
Jones Project #: D-1270

Page 2 of 2
Sample Container: GASTIGHT GLASS SYRINGE
If different than above, see Notes.

Turn Around Requested:
□ Immediate Attention
□ Rush 24 Hours
□ Rush 48 Hours
□ Rush 72 Hours
□ Normal
☒ Mobile Lab

Tracer:
☒ n-pentane
☒ n-hexane
☒ n-heptane
□ Helium
□ 1,1-DFA
□ _____

Reporting Limits Requested: ☒ Commercial □ Residential
Units: µg/L

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)				Magnehelic Vacuum (in/H_2O)	Number of Containers	Notes & Special Instructions
I11-S	3	131	3/8/17	14:07	14:30	D-1270-11	~200	HAND PURGE	M100.111	SG	X				2	1	
I13-SS	3	131	3/8/17	14:09	14:11	D-1270-12	~200	HAND PURGE	M100.111	SG	X				2	1	
I14-SS	3	131	3/8/17	14:22	14:25	D-1270-13	~200	HAND PURGE	M100.111	SG	X				2	1	
I12-SS	-	-	3/8/17	14:05	-	D-1270-14	-	-	M100.111	-	-				>100	-	NO FLOW

Relinquished By (Signature): Joshua Roberts
Printed Name: Joshua Roberts
Company: Ardent Environmental
Date: 3-8-17
Time: 5:15

Received By (Signature):
Printed Name: ANGELA HAAR
Company: JONES ENVIRONMENTAL, INC.
Date: 3/8/2017
Time: 1505

Relinquished By (Signature):
Printed Name:
Company:
Date:
Time:

Received By Laboratory (Signature):
Printed Name:
Company:
Date:
Time:

3 Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.

APPENDIX F

Hydrology Report

PRELIMINARY HYDROLOGY CALCULATIONS

FOR

5010 AZUSA CANYON ROAD

PREPARED BY BRIAN WEIL
UNDER THE SUPERVISION OF

_____
REINHARD STENZEL DATE:
R.C.E. 56155
EXP. 12/31/18

PRELIMINARY HYDROLOGY CALCULATIONS

FOR

PROPOSED BUILDINGS
5010 AZUSA CANYON ROAD
IRWINDALE, CALIFORNIA

PREPARED FOR

OVERTON MOORE PROPERTIES
19300 HAMILTON AVENUE
GARDENA, CALIFORNIA 90248
PH. (310) 323-9100
FAX (310) 608-7997

APRIL 6, 2018

JOB NO. 3521

PREPARED BY

THIENES ENGINEERING
14349 FIRESTONE BLVD.
LA MIRADA, CALIFORNIA 90638
P. (714) 521-4811
FAX (714) 521-4173

INTRODUCTION

A: PROJECT LOCATION

The project site is located on the easterly side of Azusa Canyon Road south of Arrow Highway in the City of Irwindale. Please see next page for vicinity map.

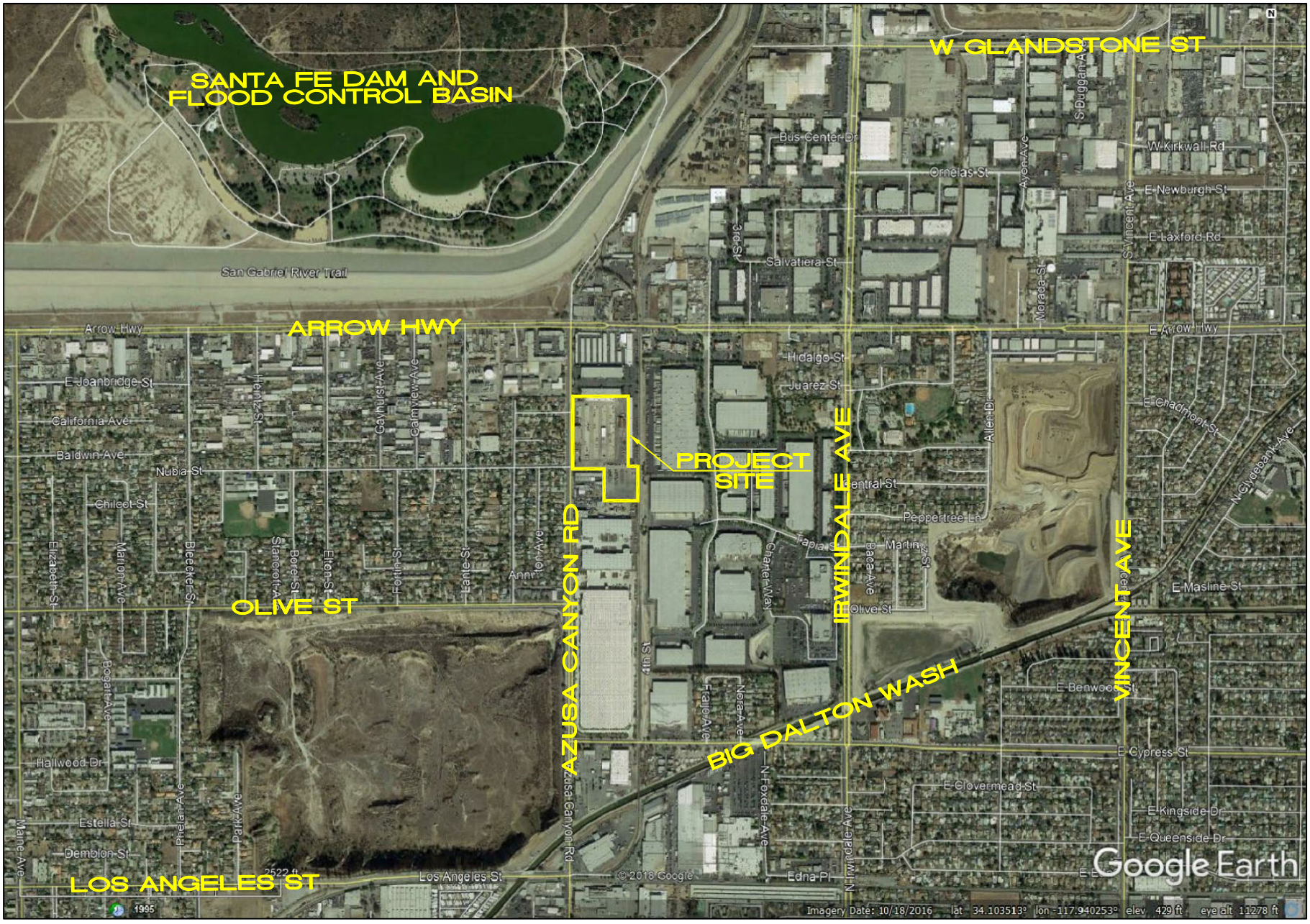
B: STUDY PURPOSE

The purpose of this study is to determine the 50-year peak flow rate from the site that will ultimately drain to an existing storm drain in Azusa Canyon Road.

C: PROJECT STAFF:

Thienes Engineering staff involved in this study include:

Reinhard Stenzel
Brian Weil



Last Update: 3/1/18
O:\3500-3599\3521\3521VicMap.dwg

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

"VICINITY MAP"

FOR

5010 AZUSA CANYON ROAD, IRWINDALE

DISCUSSION

The project site encompasses approximately 10.70 acres. Proposed improvements consist of two warehouse type buildings, Buildings 1 and 2, with approximately 181,844 square feet and 44,430 square feet, respectively. There is a truck yard located on the easterly side of Building 1 and on the westerly side of Building 2.Vehicle parking is located around each building with landscaped areas throughout the site. There is additional landscaping adjacent to the street. An existing commercial development to the east appears to ultimately drain to the proposed Building 2 site.

County Hydrology

The project site is tabled to an existing storm drain system in Azusa Canyon Road (Project No. 445, Irwindale Line "A"). From correspondence with Los Angeles County Department of Public Works, the allocated peak flow rate for the site is 1.29 cfs/acre.

See Appendix "A" for reference storm drain plans and hydrology calculations provided by the County.

Existing Condition

The site is currently an existing commercial/industrial development. In general, the project site drains westerly to Azusa Canyon Road via existing valley gutters. Once in the street, existing catch basins and storm drain laterals convey runoff to the existing County storm drain system.

Proposed Hydrology

Runoff from a portion of Building 1 roof, the northerly vehicle parking, Building 1 truckyard, and a portion of the Building 2 roof all drain to the aforementioned truck yard. The 50-year peak flow rate for this area is approximately 18.1 cfs. The westerly portion of Building 1 (Area 2A) will be collected and conveyed to the truckyard via an onsite storm drain. The 50-year peak flow rate is approximately 5.8 cfs.

Runoff from the southerly portion of Building 2, the Building 2 truckyard, and the southerly adjacent vehicle parking drains to the aforementioned truckyard. The 50-year peak flow rate for this area is approximately 5.8 cfs.

Runoff from the vehicle parking southerly adjacent of Building 1 and the drive aisle (Area 3A) will be collected and continue in the storm drain towards Azusa Canyon Road. The 50-year peak flow rate for this area is approximately 1.7 cfs.

Runoff from the westerly landscape area and a small portion of the north drive way (Area 6C) will be sheet flow into Azusa Canyon Road. The 50-year peak flow rate for this area is approximately 1.7 cfs.

See Appendix "B" for hydrology calculations and Appendix "D" for hydrology map.

Detention

The site is tabled to the existing storm drain in Azusa Canyon Road. As previously mentioned, runoff from the site must be limited to no more than 1.29 cfs/acre. Including the offsite area, the allowable peak flow rate is 16.4 cfs (12.70 acres x 1.29 cfs/acre). It is unclear how much of the offsite (Area 6B) runoff enters the site. Conservatively, it is assumed that the entire 50-year peak flow rate (5.8 cfs) will enter the site undetained. Also runoff from the southerly parking lot (Area 3A, 1.7 cfs) does not have the ability to be stored onsite and will also discharge undetained.

The remaining peak flow discharge from Areas 1A, 2A, and 4A is about 8.9 cfs (16.4 cfs – 5.8 cfs – 1.7 cfs). These areas have the ability to store runoff in the truck yard areas. The following table summarizes the required volumes in each of the areas associated with the hydrology map:

Subarea	Required Volume (cubic feet)	Maximum Depth (feet)
1A-2A	9,815	1.0
4A	1,172	0.65

Hydrograph volumes were determined from the Hydro-Calc Excel spreadsheet. Cumulative volumes are shown up to the allowable peak flow rate before and after the peak occur. The difference in the volume before and after the peak (along with the volume of the allowable peak flow rate) is the volume to be temporarily detained.

With onsite detention, runoff from the project site can be reduced to the allocated peak flow rate from the County calculations.

See Appendix "C" for detention calculations.

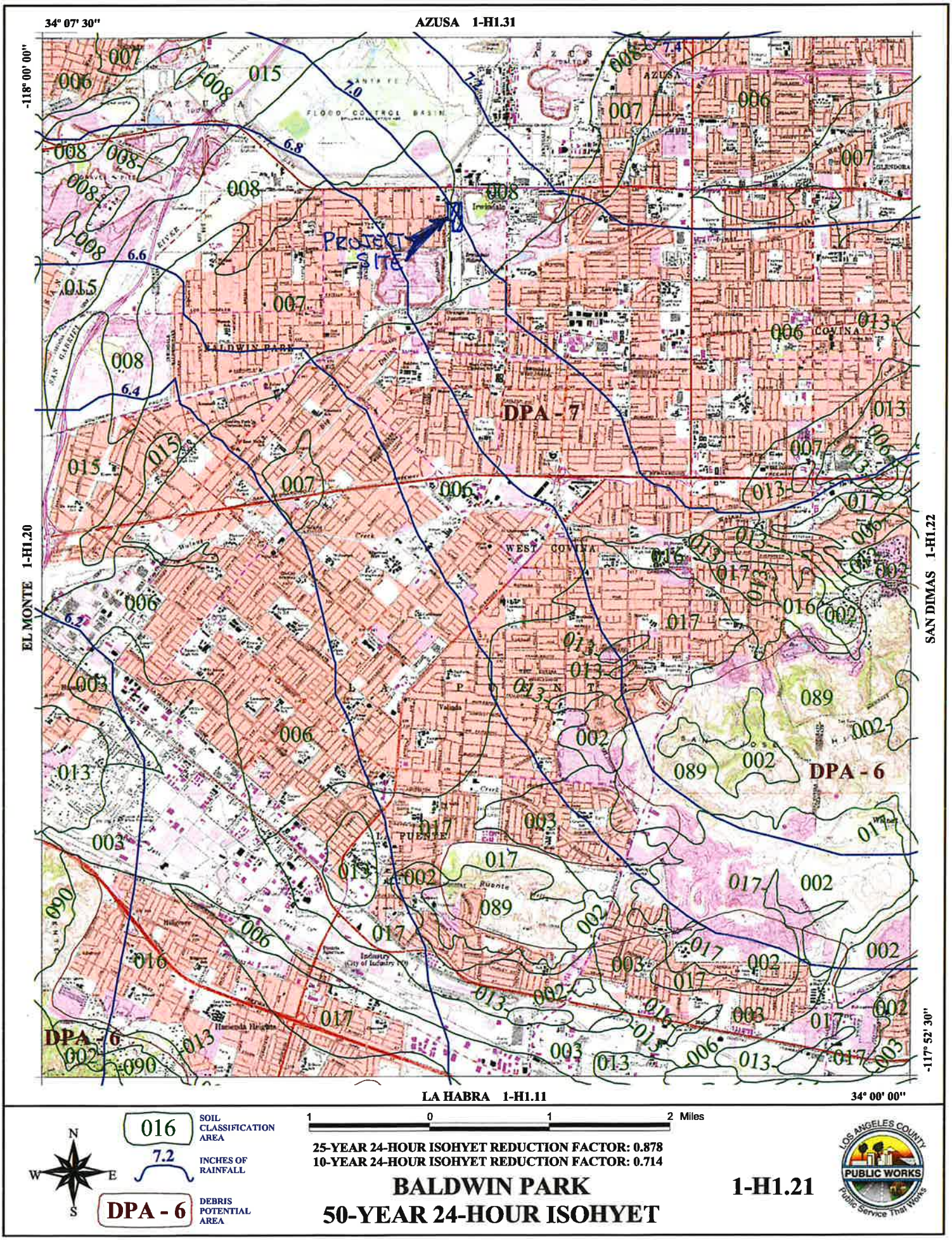
Methodology

Hydrology calculations were calculated using Los Angeles County Hydro-Calc spreadsheet. The site is composed of soil type "8" and rainfall zone 7.0 per the Los Angeles County Hydrology Manual (see reference in Appendix "A").

APPENDIX	DESCRIPTION
A	REFERENCE MATERIALS
B	HYDROLOGY CALCULATIONS
C	DETENTION CALCULATIONS
D	HYDROLOGY MAP

APPENDIX A

REFERENCE MATERIALS



016 SOIL CLASSIFICATION AREA

7.2 INCHES OF RAINFALL

DPA - 6 DEBRIS POTENTIAL AREA

1 0 1 2 Miles

25-YEAR 24-HOUR ISOHYET REDUCTION FACTOR: 0.878
10-YEAR 24-HOUR ISOHYET REDUCTION FACTOR: 0.714

BALDWIN PARK
50-YEAR 24-HOUR ISOHYET

1-H1.21

LOS ANGELES COUNTY PUBLIC WORKS
Public Service That Works

3521

Office Use Only
☐ Sent Initials: _____
☐ Fax ☒ Email ☐ Other: _____
Date: _____ Time: _____

LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
DESIGN DIVISION – HYDRAULIC ANALYSIS UNIT

INFORMATION REQUEST SUMMARY

INFORMATION REQUESTED BY

*Requester's Name: Angie Lomeli
Company: Thienes Engineering, Inc
*Phone Number: 714-521-4811 Fax Number: 714-521-4173
*Email: Angie@ThienesEng.com

Method of Contact: ☐ Walk-in ☐ Phone ☐ Fax ☒ Email ☐ Prelim. Mtg. Date: 1/13/2017

Intended Use: Research

Proposed Project Type: Industrial Acreage Involved: _____

*Will information be used in any litigation? ☐ YES ☒ NO
Case Info. Name: _____ No: _____ Location: _____

INFORMATION REQUESTED (Attach Assessor Map)

LACFCD Facility: Name: _____
Unit: _____ Line: _____ Station: _____
City: Irwindale
*Street/Cross-street: Azusa Canyon Road, south of Arrow Way
*Thomas Guide: Page: 598 Grid: E3 ☒ Site Map/Plans Submitted
Info. Requested:
- Hydrology Map
- Allowable 'Q'
- Hydraulic calcs

***Required Information. See Page 2 of 2 for Instructions.**

BELOW SECTION TO BE COMPLETED BY THE HYDRAULIC ANALYSIS UNIT

INFORMATION PROVIDED: Allowable q per acre, Hydraulic calculation and hydrology.

REFERENCES SEARCHED: BI 445 Hydrology.

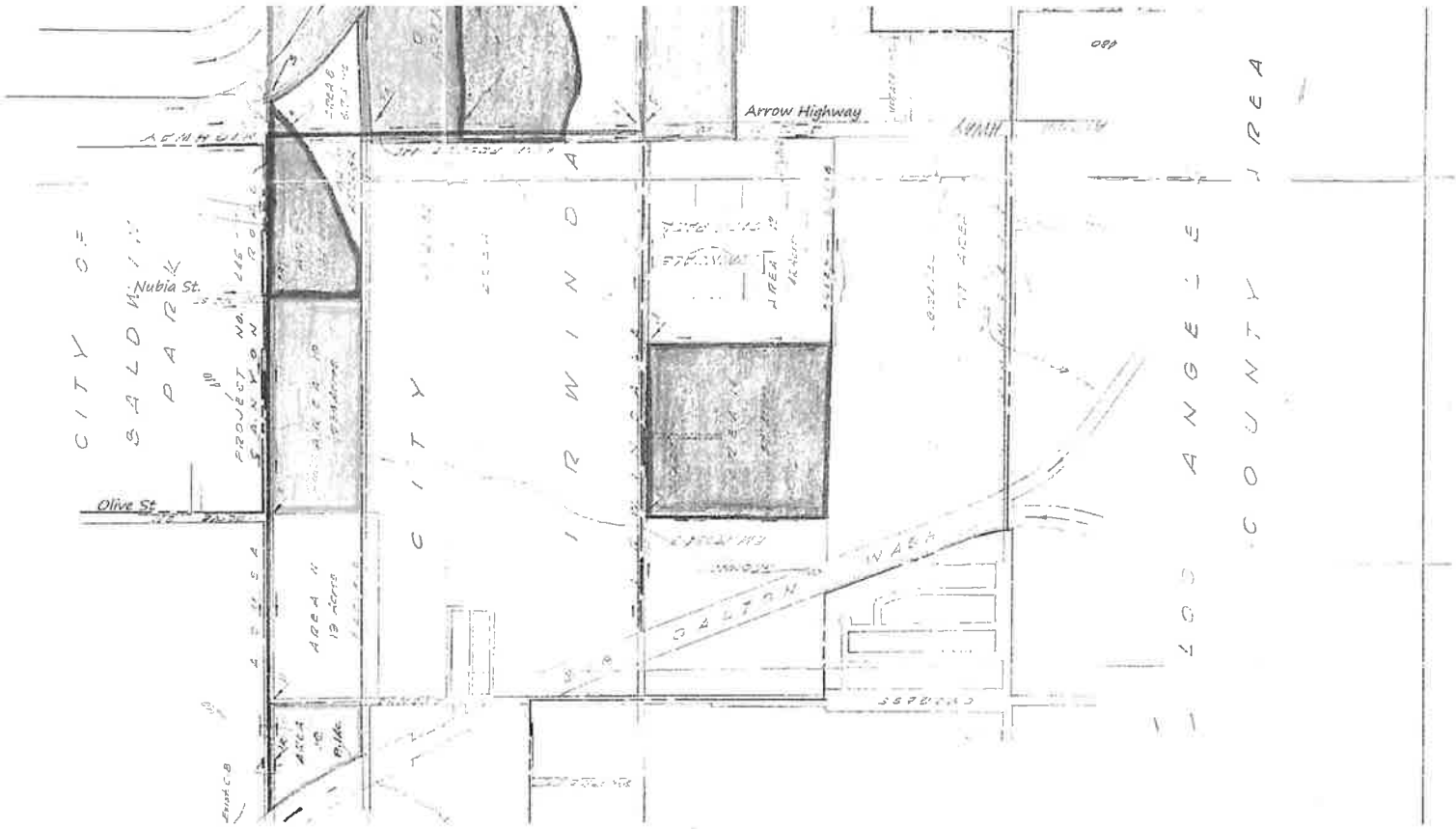
COMMENTS, ETC: Allowable q per acre = 1.29 cfs.

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
DESIGN DIVISION
Hydraulic Analysis Unit
OFFICIAL RECORD DOCUMENT
Issued Date: 2/24/17
Public Service That Works

INFORMATION PROVIDED BY: Ambrose C. Ajaelo PE Date: 02/16/2017

INFORMATION REVIEWED BY: Date:

Print Save a Copy


Arrow Highway
Nubia St.
Olive St
CITY OF SAN DIMAS
CITY OF IRWINDALE
LOS ANGELES COUNTY AREA
PROJECT NO. 1
AREA 19 ACRES
AREA 12 ACRES
DALTON
NARS

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT — Sht. ___ of ___

Hydrology Calculation Sheet

PROJECT 445-A
FREQUENCY 10
ISOHYETAL ZONE L

CALCULATED BY E.J.P.
CHECKED BY
DATE 3-3-60

DRAINAGE AREA	Soil & Development	A Acres	I in/hr.	C	ΔQ CFS	ΣQ CFS	SLOPE	SECTION	v FPS	L FT.	T MIN.	ΣT MIN.	REMARKS
5A.	HG.-C	12	2.55	0.76	23							11.5	
5B	" "	18	2.12	0.74	28	23	.011	ST. FLOW	4.3	1200	4.7	16.2	IRVINDALE AVE
5C	" "	17	1.95	0.73	24	51	"	"	5.6	100	3.3	19.5	"
6	" "	28	"	"	40	75						"	ARROW HWY @ "
7	" "	74	1.82	0.71	96	115	.0023	60" RCP	6.5	1250	3.2	22.7	" "
8	" "	7	1.72	0.70	8	211	.0023	75" "	7.5	1350	3.0	25.7	" @ AZUSA CYN. RD.
8A, 9	HF. "	18	1.68	0.80	24	219	.011	57" "	13.5	1150	1.4	27.1	NUGIA ST. @ " "
10	HF. "	29	1.65	0.80	33	243	.011	" "	15	1500	1.7	28.8	OLIVE ST @ " "
11	HF. "	22	1.60	0.80	28	276	.0081	63" "	14	1300	1.6	30.4	CYPRESS AVE @ " "
12	HF. "	7	1.59	0.80	9	304	.0081	66" "	14	750	0.9	31.3	BIG DALTON WASH @ " "
						313							
		238											

DA-2

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

Hydraulic Calculation Sheet

Sht 1 of 2

PROJECT # 415 - LINE "A"

CALCULATED BY

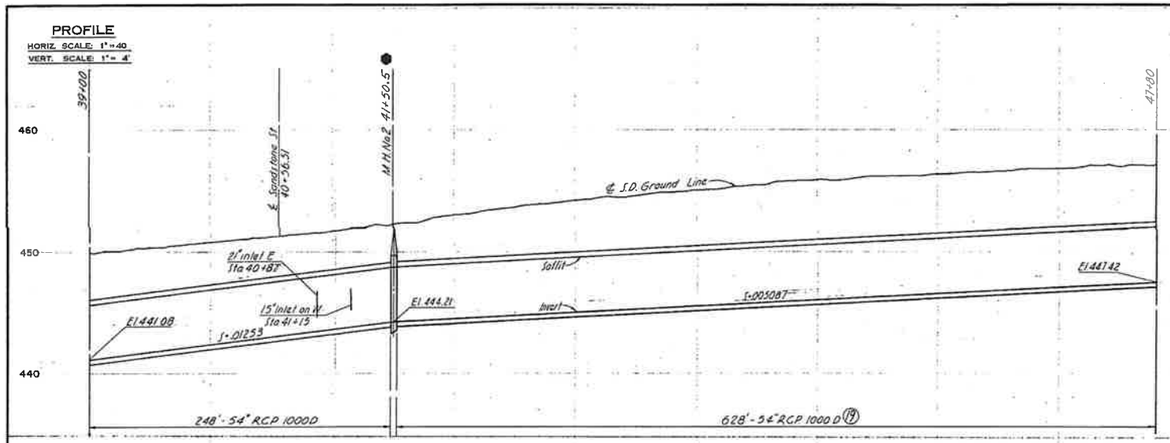
DATE

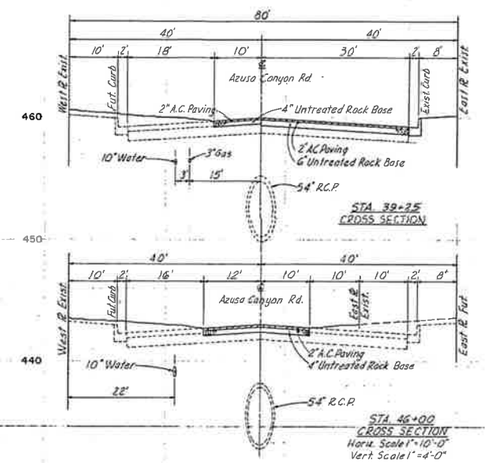
STA.	ELEV. INV	D	ELEV W.S.	SECTION	A	W.P. k	R V	Q	$\frac{V^2}{2g}$	E.G. S_f	$\frac{Av}{S_f}$	L	h_f	h_b	h_j	h_t	E.G.
0+00			410.39	60"RCP	19.64	2603	12.1	238.4	2.29								
9+00			418.03	57"RCP	17.72	2271	13.4		2.82	420.85		900	7.55	.37	.14	.11	
9+60							12.5	217.7	2.34			60	.66				
10+00																	
0+00			410.00	60"RCP	19.64	2603	12.1	238.4	2.29	412.29							
8+98			418.03							420.32		898	7.55	.37			
"			417.63	57"RCP	17.72	2271	13.4		2.79	420.42							
9+62			418.34							421.13		64	.71				
"			419.21				12.28	217.7	2.34	421.55					.42		
18+00			421.01							423.35		838	7.68				
"			426.55	54"RCP	15.90	1967	13.7		2.92	429.47							
19+00			427.78							430.70		100	1.23				
22+00			431.47							434.39		300	3.69				
"			432.11	57"RCP	17.72	2271	12.28		2.34	434.45							
22+85			432.89							435.23		85	.78				
"			433.91				10.8	191.7	1.81	435.72					.49		
28+00			437.61							439.42		515	3.71				
"			437.26	54"RCP	15.90	1967	12		2.26	439.52							
29+00			438.21							440.47		100	.95				
35+33			444.32							446.58		633	6.06				
"			444.93				11.1	176.3	1.92	446.85					.27		
39+00			447.87							449.79		367	2.94				
40+38			449.36							451.28		187	1.49				
"			449.97				10.1	160.8	1.59	451.56					.28		

DB-2

PROFILE

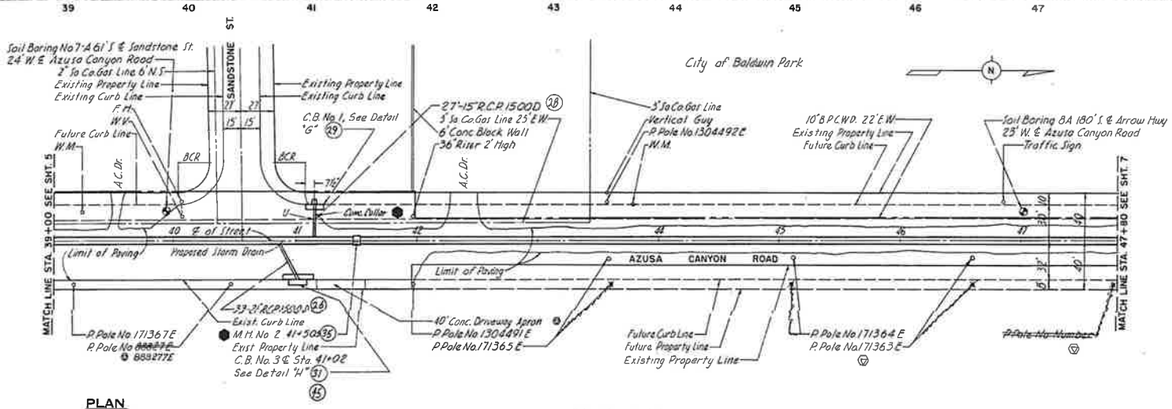
HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

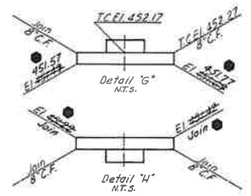




PLAN

SCALE: 1" = 40'





REFERENCE

MJB 2657 (Street)
MJ 9964 (Street)

BENCH MARKS

TBM-10A
L. & T. in N.E. Corner porch slab 50± W. centerline Azusa Canyon Rd. centerline 265'N. centerline Sandstone St.
Elev. 454.845

TBM-11A
L. & T. top pump foundation 180'± W. centerline Azusa Canyon Rd. & 55' S. Arrow Hwy.
Elev. 459.292

9400285845

1958 STORM DRAIN BOND ISSUE

CITY OF IRWINDALE
APPROVED May 29, 1961
CITY MANAGER

WILSEY, HAM & BLAIR
ENGINEERS
MAY 26, 61
CHIEF ENGINEER

REVISIONS		
MARK	DATE	DESCRIPTION
⊖	4-25-62	Revised P.P. location & No.
●	8-9-66	"As Built"

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

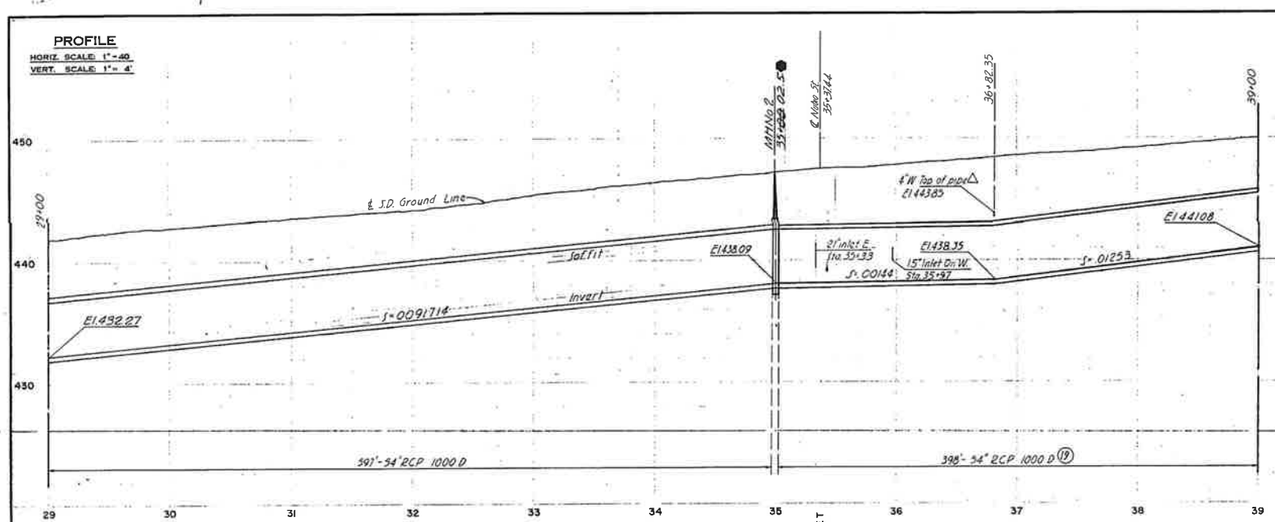
PROJECT NO 445
IRWINDALE
LINE A
STA. 39+00 TO STA. 47+80
PLAN AND PROFILE

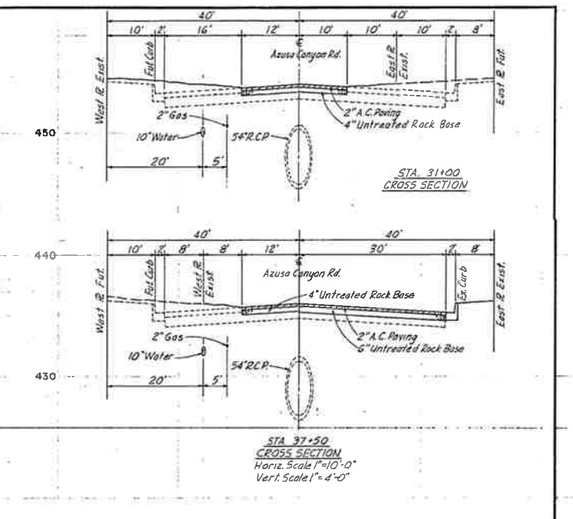
DRAWN BY IRWINDALE
TRACED BY IRWINDALE
CHECKED BY
DESIGNED BY IRWINDALE
SUBMITTED BY C.W.H.
RECOMMENDED BY
APPROVED BY
CHIEF ENGINEER

SCALE AS SHOWN
DATE NOV., 1961
NO. 275-445-D2.6
SHEET 6 OF 18

PROFILE

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 4'

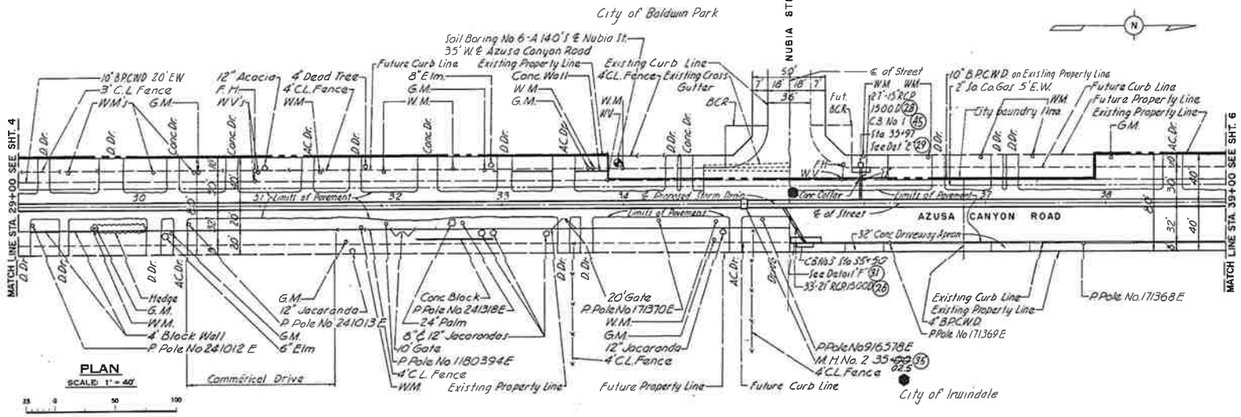


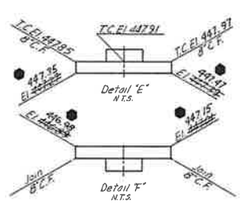


STA. 37+50
CROSS SECTION
Horiz. Scale 1"=10'-0"
Vert. Scale 1"= 4'-0"

PLAN

SCALE: 1" = 40'





REFERENCE

MJ 9964 (Street)

BENCH MARKS

TBM-9A
L. B.T. 5' N. of S. end top E. curb Azusa Canyon Rd. on centerline Nubia St. prod.
Elev. 447.466

TBM-9A
L. B.T. Top E. curb Azusa Canyon Rd. 350' N. centerline Nubia St.
Elev. 450.293

1958 STORM DRAIN BOND ISSUE

CITY OF IRWINDALE
APPROVED May 29 1961
CITY MANAGER

WILSEY, HAM & BLAIR ENGINEERS
CHIEF ENGINEER

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	
●	8-4-61	"As Built"	PROJECT NO 445 IRWINDALE LINE A

STA. 29+00 TO STA. 39+00
PLAN AND PROFILE

DRAWN BY K.R.W.INDALE | DESIGNED BY IRWINDALE | APPROVED BY
TRACED BY K.R.W.INDALE | CHECKED BY | CHIEF ENGINEER
CHECKED BY | SUBMITTED BY C.H.H. | SCALE AS SHOWN | DATE NOV., 1961 | NO. 275-445-D2.5
RECOMMENDED BY | SHEET 5 OF 18
CHIEF DIVISION ENGINEER

APPENDIX B

HYDROLOGY CALCULATIONS

Peak Flow Hydrologic Analysis

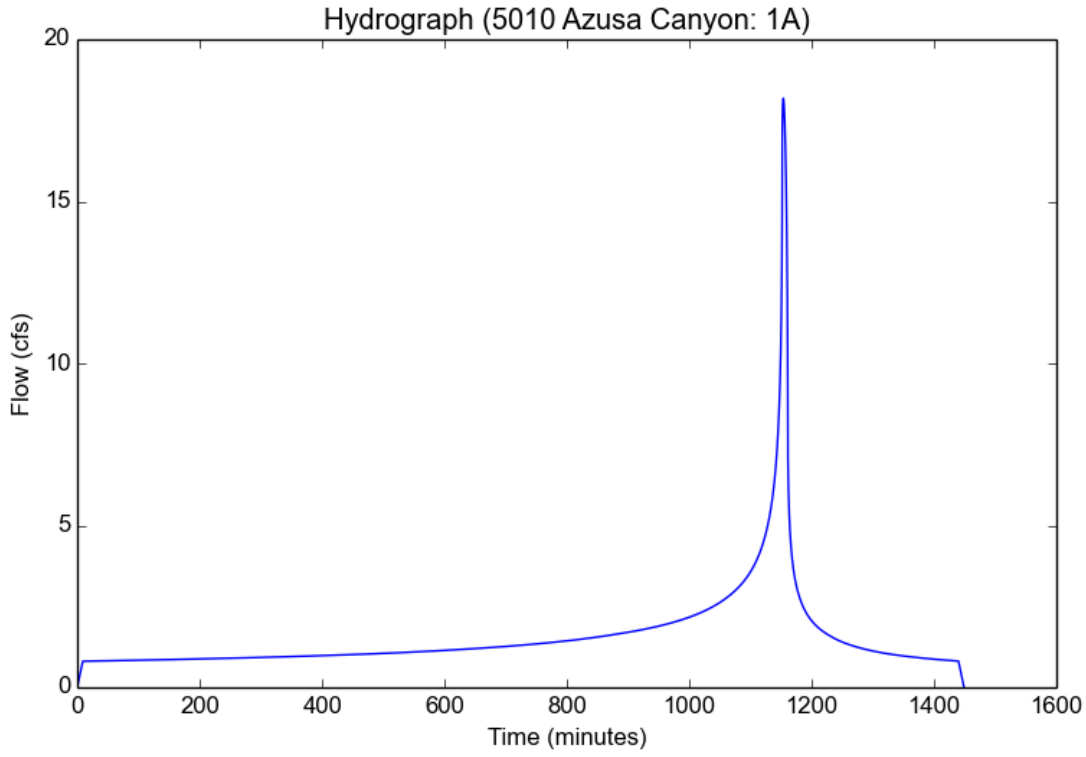
File location: O:/3500-3599/3521/hydrocalc/5010 Azusa Canyon Report.pdf
Version: HydroCalc 1.0.2

Input Parameters

Project Name	5010 Azusa Canyon
Subarea ID	1A
Area (ac)	6.35
Flow Path Length (ft)	840.0
Flow Path Slope (vft/hft)	0.0072
50-yr Rainfall Depth (in)	7.0
Percent Impervious	0.9
Soil Type	8
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	7.0
Peak Intensity (in/hr)	3.1683
Undeveloped Runoff Coefficient (Cu)	0.9369
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	9.0
Clear Peak Flow Rate (cfs)	18.1067
Burned Peak Flow Rate (cfs)	18.1067
24-Hr Clear Runoff Volume (ac-ft)	3.1263
24-Hr Clear Runoff Volume (cu-ft)	136181.4565



Peak Flow Hydrologic Analysis

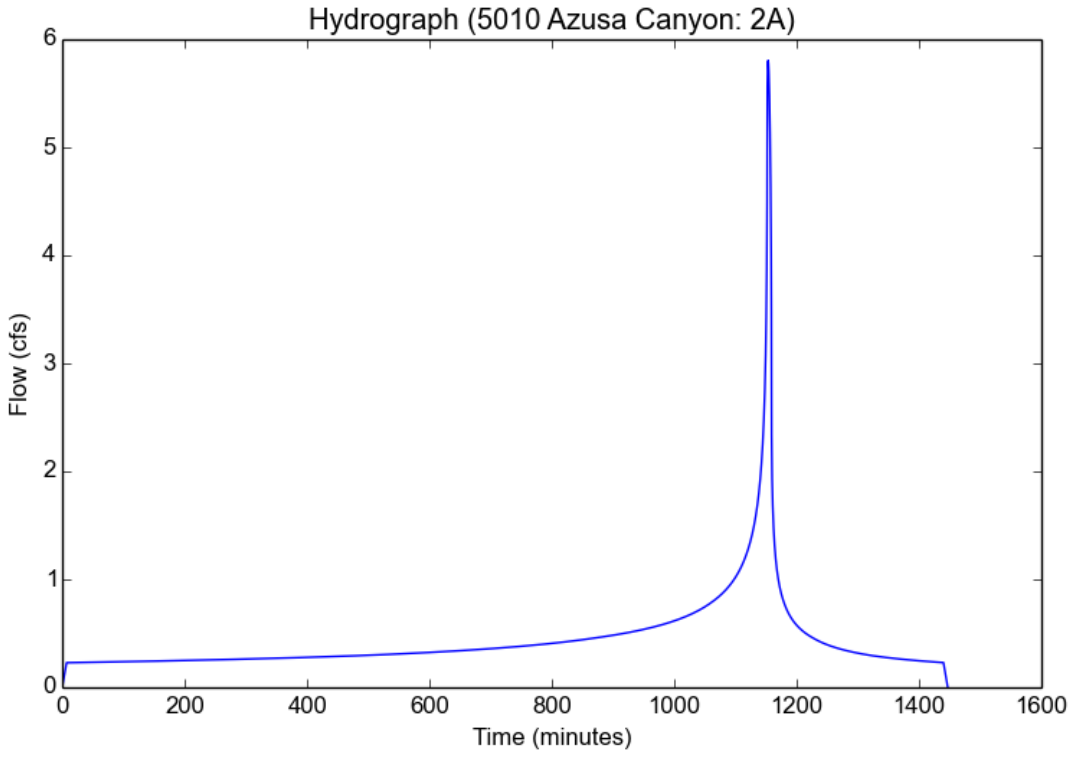
File location: O:/3500-3599/3521/hydrocalc/5010 Azusa Canyon Report.pdf
Version: HydroCalc 1.0.2

Input Parameters

Project Name	5010 Azusa Canyon
Subarea ID	2A
Area (ac)	1.8
Flow Path Length (ft)	535.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	7.0
Percent Impervious	0.9
Soil Type	8
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	7.0
Peak Intensity (in/hr)	3.5655
Undeveloped Runoff Coefficient (Cu)	0.9441
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	7.0
Clear Peak Flow Rate (cfs)	5.7761
Burned Peak Flow Rate (cfs)	5.7761
24-Hr Clear Runoff Volume (ac-ft)	0.8862
24-Hr Clear Runoff Volume (cu-ft)	38602.6806



Peak Flow Hydrologic Analysis

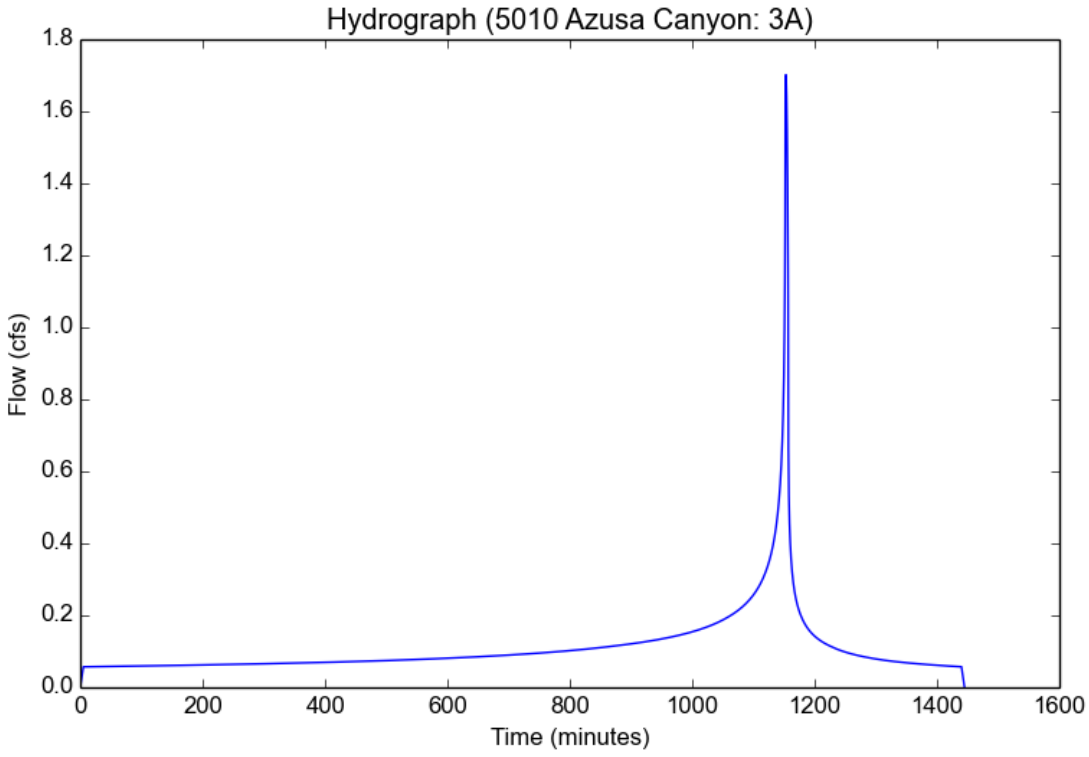
File location: O:/3500-3599/3521/hydrocalc/5010 Azusa Canyon Report.pdf
Version: HydroCalc 1.0.2

Input Parameters

Project Name	5010 Azusa Canyon
Subarea ID	3A
Area (ac)	0.45
Flow Path Length (ft)	220.0
Flow Path Slope (vft/hft)	0.0162
50-yr Rainfall Depth (in)	7.0
Percent Impervious	0.9
Soil Type	8
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	7.0
Peak Intensity (in/hr)	4.1764
Undeveloped Runoff Coefficient (Cu)	0.9539
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	1.6914
Burned Peak Flow Rate (cfs)	1.6914
24-Hr Clear Runoff Volume (ac-ft)	0.2216
24-Hr Clear Runoff Volume (cu-ft)	9650.7367



Peak Flow Hydrologic Analysis

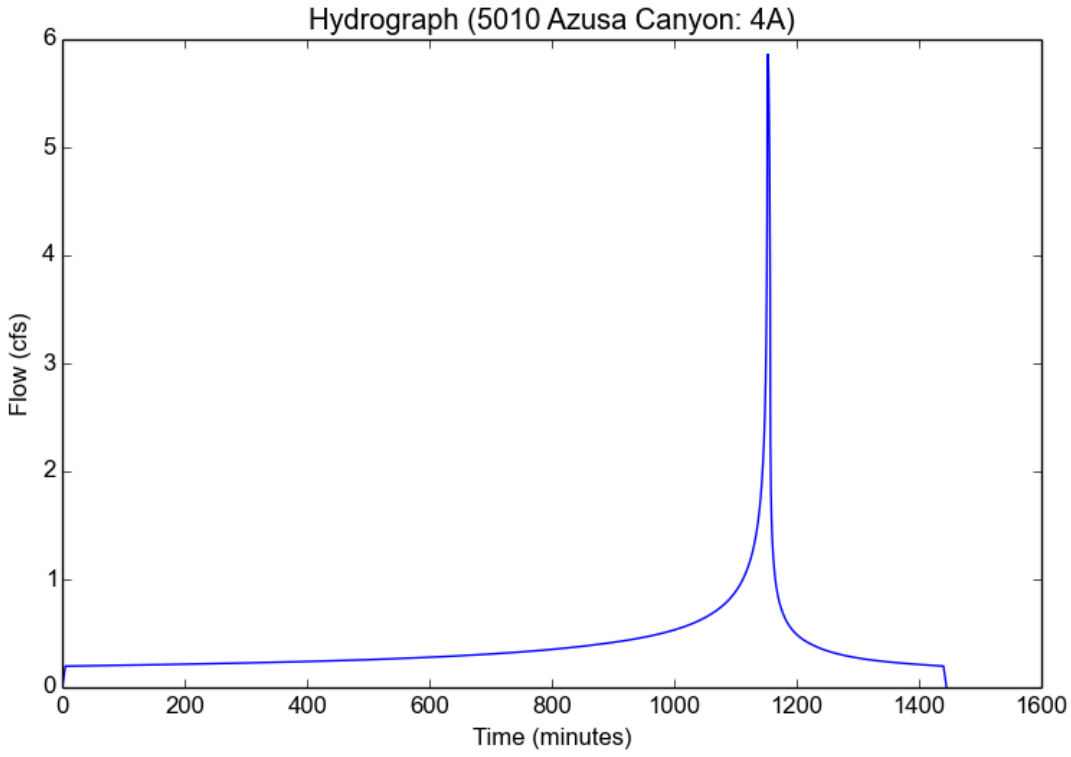
File location: O:/3500-3599/3521/hydrocalc/5010 Azusa Canyon Report.pdf
Version: HydroCalc 1.0.2

Input Parameters

Project Name	5010 Azusa Canyon
Subarea ID	4A
Area (ac)	1.55
Flow Path Length (ft)	340.0
Flow Path Slope (vft/hft)	0.0078
50-yr Rainfall Depth (in)	7.0
Percent Impervious	0.9
Soil Type	8
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	7.0
Peak Intensity (in/hr)	4.1764
Undeveloped Runoff Coefficient (Cu)	0.9539
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	5.8261
Burned Peak Flow Rate (cfs)	5.8261
24-Hr Clear Runoff Volume (ac-ft)	0.7631
24-Hr Clear Runoff Volume (cu-ft)	33241.4266



Peak Flow Hydrologic Analysis

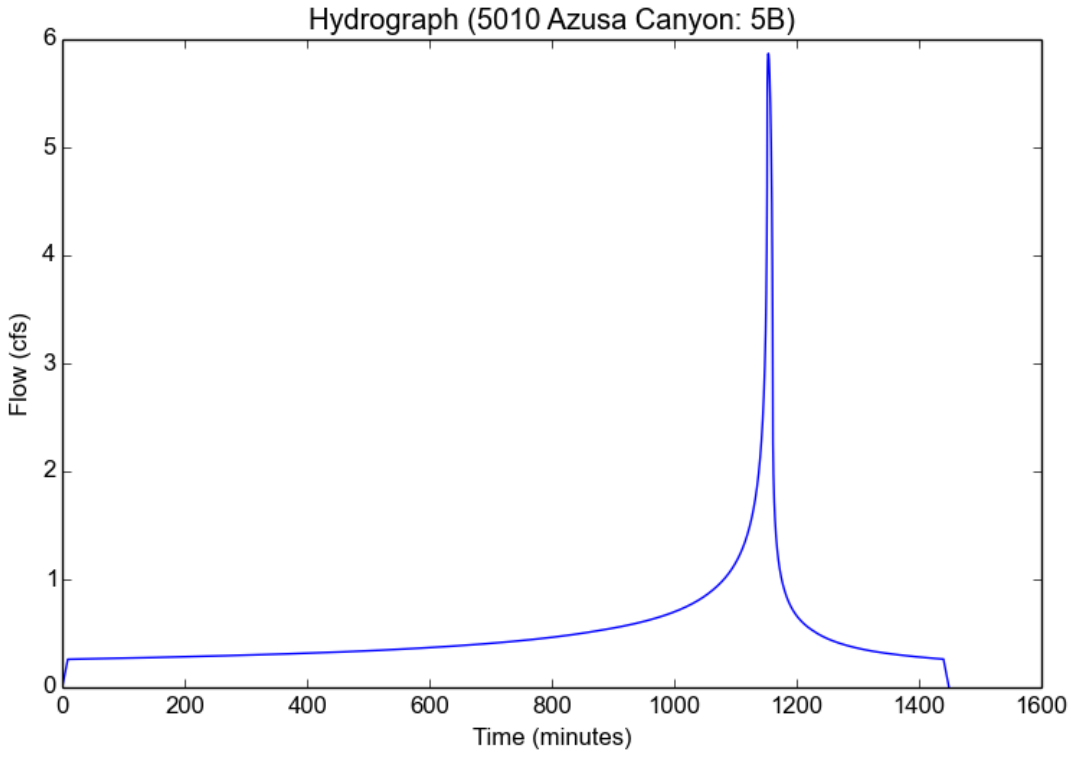
File location: O:/3500-3599/3521/hydrocalc/5010 Azusa Canyon Report.pdf
Version: HydroCalc 1.0.2

Input Parameters

Project Name	5010 Azusa Canyon
Subarea ID	5B
Area (ac)	2.05
Flow Path Length (ft)	850.0
Flow Path Slope (vft/hft)	0.0088
50-yr Rainfall Depth (in)	7.0
Percent Impervious	0.9
Soil Type	8
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	7.0
Peak Intensity (in/hr)	3.1683
Undeveloped Runoff Coefficient (Cu)	0.9369
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	9.0
Clear Peak Flow Rate (cfs)	5.8455
Burned Peak Flow Rate (cfs)	5.8455
24-Hr Clear Runoff Volume (ac-ft)	1.0093
24-Hr Clear Runoff Volume (cu-ft)	43964.0923



Peak Flow Hydrologic Analysis

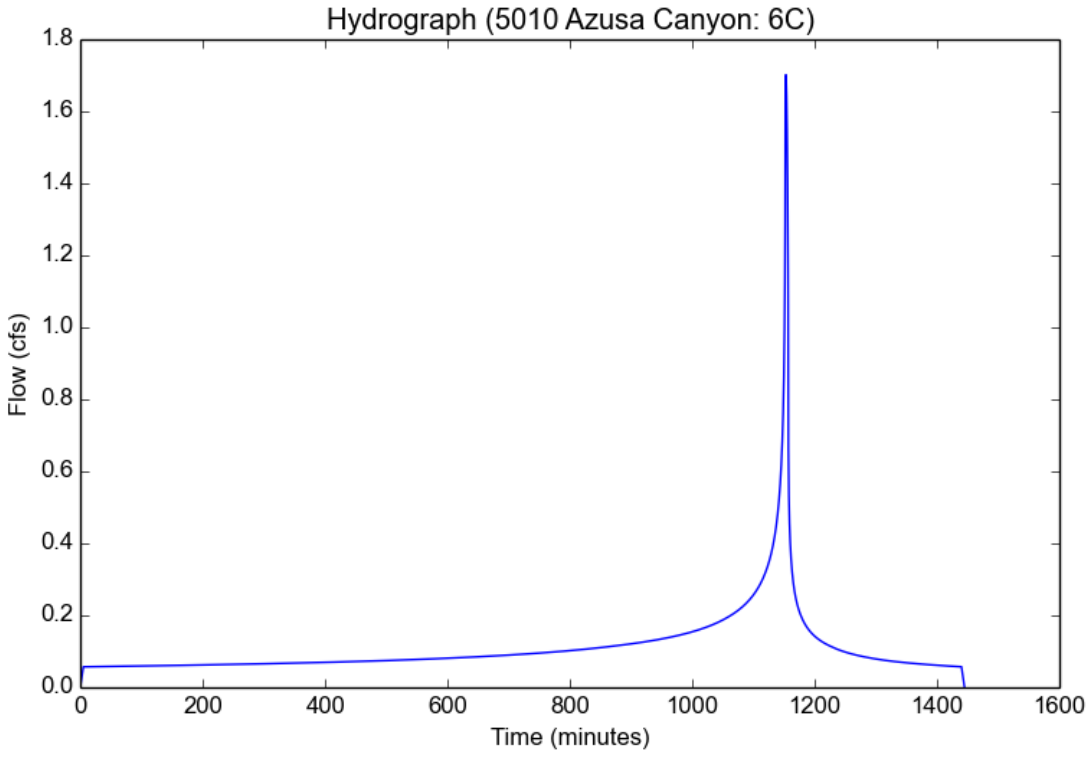
File location: O:/3500-3599/3521/hydrocalc/5010 Azusa Canyon Report.pdf
Version: HydroCalc 1.0.2

Input Parameters

Project Name	5010 Azusa Canyon
Subarea ID	6C
Area (ac)	0.45
Flow Path Length (ft)	75.0
Flow Path Slope (vft/hft)	0.028
50-yr Rainfall Depth (in)	7.0
Percent Impervious	0.9
Soil Type	8
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	7.0
Peak Intensity (in/hr)	4.1764
Undeveloped Runoff Coefficient (Cu)	0.9539
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	1.6914
Burned Peak Flow Rate (cfs)	1.6914
24-Hr Clear Runoff Volume (ac-ft)	0.2216
24-Hr Clear Runoff Volume (cu-ft)	9650.7367



Peak Flow Hydrologic Analysis

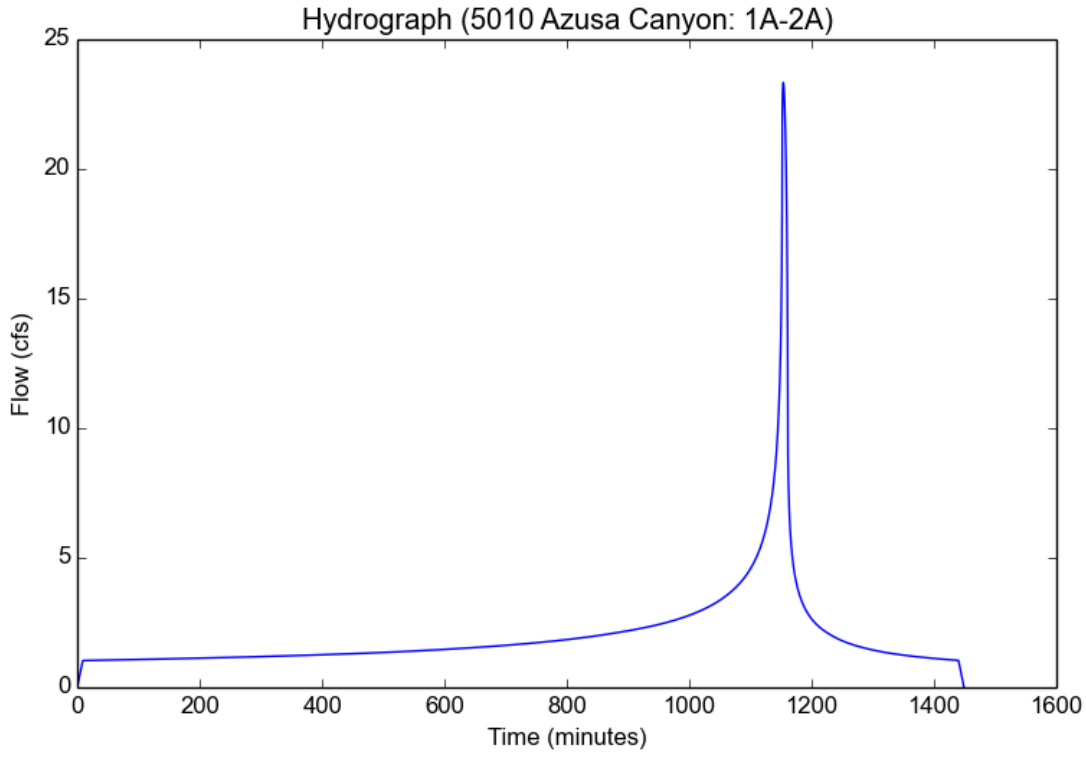
File location: O:/3500-3599/3521/hydrocalc/5010 Azusa Canyon Report.pdf
Version: HydroCalc 1.0.2

Input Parameters

Project Name	5010 Azusa Canyon
Subarea ID	1A-2A
Area (ac)	8.15
Flow Path Length (ft)	840.0
Flow Path Slope (vft/hft)	0.0072
50-yr Rainfall Depth (in)	7.0
Percent Impervious	0.9
Soil Type	8
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	7.0
Peak Intensity (in/hr)	3.1683
Undeveloped Runoff Coefficient (Cu)	0.9369
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	9.0
Clear Peak Flow Rate (cfs)	23.2393
Burned Peak Flow Rate (cfs)	23.2393
24-Hr Clear Runoff Volume (ac-ft)	4.0125
24-Hr Clear Runoff Volume (cu-ft)	174784.0741



APPENDIX C

DETENTION CALCULATIONS

Volume at Area 1A-2A
Building 1 Truck Yard

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	∑ Volume (c.f.)	∑ Volume (ac-ft)
450.11	0.00	0			
			9	9	0.00
450.20	0.09	201			
			219	228	0.01
450.40	0.29	1985			
			813	1041	0.02
450.60	0.49	6146			
			1854	2895	0.07
450.80	0.69	12396			
			4006	6901	0.16
451.00	0.89	27664			
			5670	12571	0.29
451.20	1.09	29038			
			6838	19409	0.45
451.40	1.29	39344			
			9074	28483	0.65
451.60	1.49	51394			

Peak Flow Hydrologic Analysis

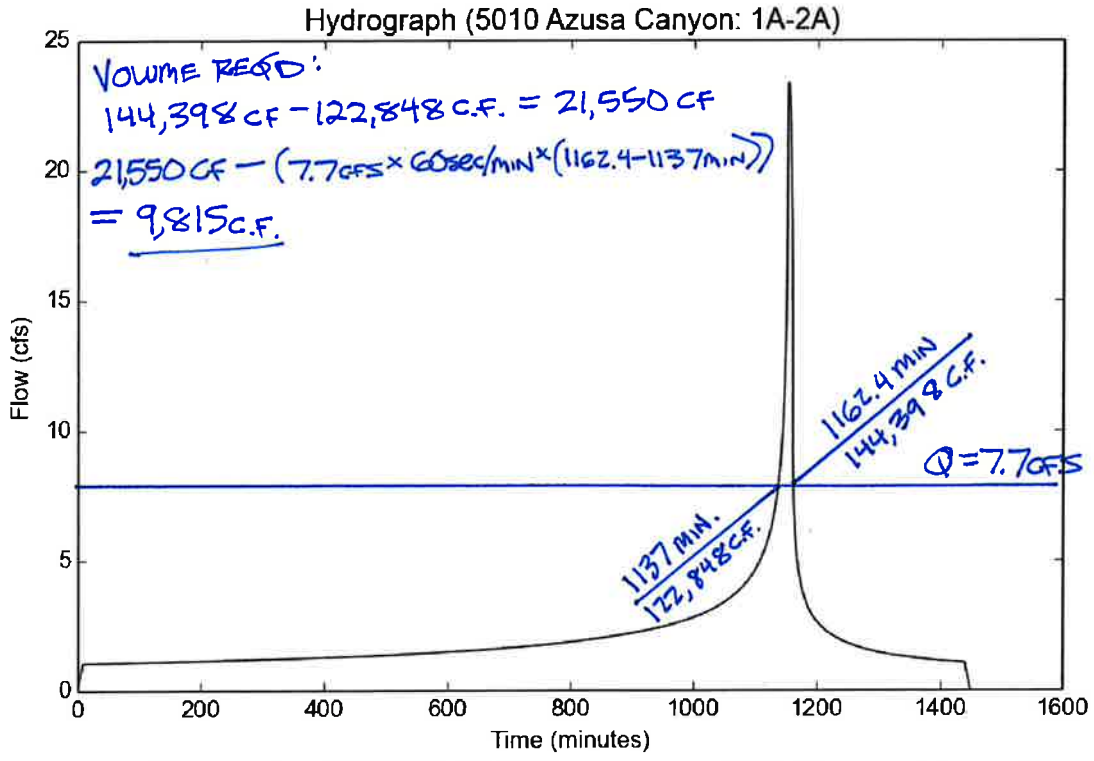
File location: O:/3500-3599/3521/hydrocalc/5010 Azusa Canyon Report.pdf
Version: HydroCalc 1.0.2

Input Parameters

Project Name	5010 Azusa Canyon
Subarea ID	1A-2A
Area (ac)	8.15
Flow Path Length (ft)	840.0
Flow Path Slope (vft/hft)	0.0072
50-yr Rainfall Depth (in)	7.0
Percent Impervious	0.9
Soil Type	8
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	7.0
Peak Intensity (in/hr)	3.1683
Undeveloped Runoff Coefficient (Cu)	0.9369
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	9.0
Clear Peak Flow Rate (cfs)	23.2393
Burned Peak Flow Rate (cfs)	23.2393
24-Hr Clear Runoff Volume (ac-ft)	4.0125
24-Hr Clear Runoff Volume (cu-ft)	174784.0741



Inputs: 5010 Azusa Canyon

Subarea ID	Area (ac)	Flow Path L	Flow Path S	50-yr Rainf	Percent Im	Soil Type	Design Sto	Fire Factor
1A-2A	8.15	840	0.0072	7	0.9	8	50-yr	0

Outputs: 5010 Azusa Canyon

Area (ac)	Modeled (!	Time of Co	Clear Peak	24-Hr Clea	Burned Pe	Peak Inten	Undevelop	Developed
1A-2A	7	9	23.335	4.01249	23.23931	3.168277	0.93692	0.9

Hydrograph: 5010 Azusa Canyon - 1A-2A

Time (min)	Incrementa	Incrementa	Intensity (i	Undevelop	Developed	Clear Peak	Incrementa	Cumulative
0	0	0	0	0	0	0	0	0
0.2	7.36E-05	0.000515	0	0	0	0.023	0.137998	0.137998
0.4	0.000147	0.001031	0	0	0	0.045999	0.413994	0.551992
0.6	0.000221	0.001546	0	0	0	0.068999	0.68999	1.241981
0.8	0.000294	0.002061	0	0	0	0.091999	0.965985	2.207967
1	0.000368	0.002577	0	0	0	0.114998	1.241981	3.449948
1.2	0.000442	0.003092	0	0	0	0.137998	1.517977	4.967925
1.4	0.000515	0.003608	0	0	0	0.160998	1.793973	6.761898
1.6	0.000589	0.004124	0	0	0	0.183997	2.069969	8.831867
1.8	0.000663	0.004639	0	0	0	0.206997	2.345965	11.17783
2	0.000736	0.005155	0	0	0	0.229997	2.62196	13.79979
2.2	0.00081	0.005671	0	0	0	0.252996	2.897956	16.69775
2.4	0.000884	0.006186	0	0	0	0.275996	3.173952	19.8717
2.6	0.000957	0.006702	0	0	0	0.298995	3.449948	23.32165
2.8	0.001031	0.007218	0	0	0	0.321995	3.725944	27.04759
3	0.001105	0.007734	0	0	0	0.344995	4.00194	31.04953
3.2	0.001179	0.00825	0	0	0	0.367994	4.277935	35.32747
3.4	0.001252	0.008766	0	0	0	0.390994	4.553931	39.8814
3.6	0.001326	0.009282	0	0	0	0.413994	4.829927	44.71133
3.8	0.0014	0.009798	0	0	0	0.436993	5.105923	49.81725
4	0.001473	0.010314	0	0	0	0.459993	5.381919	55.19917
4.2	0.001547	0.01083	0	0	0	0.482993	5.657915	60.85708
4.4	0.001621	0.011346	0	0	0	0.505992	5.93391	66.79099
4.6	0.001695	0.011863	0	0	0	0.528992	6.209906	73.0009
4.8	0.001768	0.012379	0	0	0	0.551992	6.485902	79.4868
5	0.001842	0.012895	0	0	0	0.574991	6.761898	86.2487
5.2	0.001916	0.013411	0	0	0	0.597991	7.037894	93.28659
5.4	0.00199	0.013928	0	0	0	0.620991	7.31389	100.6005
5.6	0.002063	0.014444	0	0	0	0.64399	7.589885	108.1904
5.8	0.002137	0.014961	0	0	0	0.66699	7.865881	116.0562
6	0.002211	0.015477	0	0	0	0.68999	8.141877	124.1981
6.2	0.002285	0.015994	0	0	0	0.712989	8.417873	132.616
6.4	0.002359	0.01651	0	0	0	0.735989	8.693869	141.3099
6.6	0.002432	0.017027	0	0	0	0.758989	8.969865	150.2797
6.8	0.002506	0.017544	0	0	0	0.781988	9.24586	159.5256

1135	0.714364	5.000546	1.009315	0.803401	0.89034	7.323861	87.68854	121949
1135.2	0.714899	5.004294	1.013857	0.803975	0.890398	7.3573	88.08697	122037.1
1135.4	0.715438	5.008063	1.018466	0.804558	0.890456	7.391227	88.49116	122125.6
1135.6	0.715979	5.011854	1.023142	0.805148	0.890515	7.425653	88.90128	122214.5
1135.8	0.716524	5.015666	1.027887	0.805748	0.890575	7.46059	89.31746	122303.8
1136	0.717072	5.019501	1.032702	0.806356	0.890636	7.496053	89.73986	122393.6
1136.2	0.717623	5.023358	1.03759	0.806974	0.890697	7.532054	90.16865	122483.8
1136.4	0.718177	5.027238	1.042552	0.807601	0.89076	7.568609	90.60398	122574.4
1136.6	0.718735	5.031142	1.04759	0.808237	0.890824	7.60573	91.04603	122665.4
1136.8	0.719296	5.035069	1.052707	0.808884	0.890888	7.643434	91.49498	122756.9
1137	0.71986	5.039021	1.057905	0.80954	0.890954	7.681736	91.95102	122848.8
1137.2	0.720428	5.042998	1.063184	0.810207	0.891021	7.720653	92.41433	122941.3
1137.4	0.721	5.047	1.068549	0.810885	0.891088	7.760201	92.88512	123034.1
1137.6	0.721575	5.051028	1.074001	0.811574	0.891157	7.800399	93.3636	123127.5
1137.8	0.722155	5.055082	1.079543	0.812274	0.891227	7.841265	93.84999	123221.4
1138	0.722738	5.059163	1.085177	0.812986	0.891299	7.882818	94.3445	123315.7
1138.2	0.723325	5.063272	1.090906	0.813709	0.891371	7.925077	94.84737	123410.6
1138.4	0.723916	5.067409	1.096733	0.814446	0.891445	7.968065	95.35885	123505.9
1138.6	0.724511	5.071575	1.10266	0.815194	0.891519	8.011802	95.8792	123601.8
1138.8	0.72511	5.075769	1.108691	0.815956	0.891596	8.056311	96.40868	123698.2
1139	0.725713	5.079994	1.114829	0.816732	0.891673	8.101617	96.94757	123795.1
1139.2	0.726321	5.08425	1.121077	0.817521	0.891752	8.147742	97.49615	123892.6
1139.4	0.726934	5.088537	1.127439	0.818325	0.891832	8.194714	98.05474	123990.7
1139.6	0.727551	5.092856	1.133917	0.819143	0.891914	8.24256	98.62364	124089.3
1139.8	0.728172	5.097207	1.140517	0.819977	0.891998	8.291307	99.2032	124188.5
1140	0.728799	5.101593	1.147241	0.820827	0.892083	8.340985	99.79375	124288.3
1140.2	0.72943	5.106013	1.154094	0.821692	0.892169	8.391625	100.3957	124388.7
1140.4	0.730067	5.110468	1.161081	0.822575	0.892257	8.44326	101.0093	124489.7
1140.6	0.730709	5.11496	1.168205	0.823475	0.892348	8.495923	101.6351	124591.4
1140.8	0.731356	5.119489	1.175472	0.824393	0.892439	8.549652	102.2734	124693.6
1141	0.732008	5.124055	1.182886	0.82533	0.892533	8.604482	102.9248	124796.6
1141.2	0.732666	5.128662	1.190453	0.826286	0.892629	8.660454	103.5896	124900.1
1141.4	0.73333	5.133308	1.198178	0.827262	0.892726	8.717609	104.2684	125004.4
1141.6	0.733999	5.137996	1.206068	0.828259	0.892826	8.775991	104.9616	125109.4
1141.8	0.734675	5.142726	1.214128	0.829277	0.892928	8.835647	105.6698	125215
1142	0.735357	5.1475	1.222365	0.830317	0.893032	8.896625	106.3936	125321.4
1142.2	0.736046	5.15232	1.230785	0.831381	0.893138	8.958977	107.1336	125428.6
1142.4	0.736741	5.157185	1.239396	0.832469	0.893247	9.022757	107.8904	125536.5
1142.6	0.737443	5.162099	1.248206	0.833582	0.893358	9.088023	108.6647	125645.1
1142.8	0.738152	5.167062	1.257222	0.834721	0.893472	9.154836	109.4572	125754.6
1143	0.738868	5.172076	1.266453	0.835887	0.893589	9.223261	110.2686	125864.9
1143.2	0.739592	5.177143	1.275909	0.837082	0.893708	9.293366	111.0998	125976
1143.4	0.740323	5.182264	1.285599	0.838306	0.893831	9.365226	111.9516	126087.9
1143.6	0.741063	5.187441	1.295533	0.839561	0.893956	9.438918	112.8249	126200.7
1143.8	0.741811	5.192676	1.305722	0.840848	0.894085	9.514524	113.7206	126314.5
1144	0.742567	5.197972	1.316178	0.842169	0.894217	9.592134	114.6399	126429.1
1144.2	0.743333	5.203331	1.326914	0.843526	0.894353	9.671843	115.5839	126544.7

1153.8	0.813578	5.695048	3.168277	0.93692	0.903692	23.33465	279.9592	134881.6
1154	0.814358	5.700507	3.167106	0.936898	0.90369	23.32596	279.9637	135161.5
1154.2	0.815102	5.705714	3.163752	0.936838	0.903684	23.30111	279.7624	135441.3
1154.4	0.815815	5.710704	3.158414	0.936741	0.903674	23.26154	279.3759	135720.7
1154.6	0.8165	5.715501	3.151242	0.936611	0.903661	23.20839	278.8196	135999.5
1154.8	0.817161	5.720128	3.142355	0.93645	0.903645	23.14252	278.1055	136277.6
1155	0.8178	5.724602	3.13184	0.93626	0.903626	23.0646	277.2427	136554.8
1155.2	0.81842	5.728938	3.119768	0.936042	0.903604	22.97514	276.2384	136831.1
1155.4	0.819021	5.733148	3.106188	0.935796	0.90358	22.87451	275.0979	137106.2
1155.6	0.819606	5.737243	3.091138	0.935523	0.903552	22.76299	273.825	137380
1155.8	0.820176	5.741233	3.074639	0.935225	0.903522	22.64075	272.4224	137652.4
1156	0.820732	5.745125	3.056704	0.9349	0.90349	22.50787	270.8917	137923.3
1156.2	0.821275	5.748927	3.037333	0.934549	0.903455	22.36436	269.2334	138192.5
1156.4	0.821806	5.752644	3.016516	0.934172	0.903417	22.21015	267.4471	138460
1156.6	0.822326	5.756283	2.994233	0.933671	0.903367	22.04487	265.5301	138725.5
1156.8	0.822835	5.759848	2.970454	0.93284	0.903284	21.86778	263.4759	138989
1157	0.823335	5.763344	2.945137	0.931954	0.903195	21.67928	261.2823	139250.3
1157.2	0.823825	5.766775	2.918229	0.931013	0.903101	21.47897	258.9494	139509.2
1157.4	0.824306	5.770145	2.889663	0.930013	0.903001	21.26636	256.472	139765.7
1157.6	0.824779	5.773456	2.859359	0.928953	0.902895	21.04087	253.8434	140019.5
1157.8	0.825245	5.776712	2.827218	0.927829	0.902783	20.80177	251.0558	140270.6
1158	0.825702	5.779916	2.793121	0.926636	0.902664	20.54818	248.0997	140518.7
1158.2	0.826153	5.78307	2.756926	0.92537	0.902537	20.27906	244.9634	140763.7
1158.4	0.826597	5.786177	2.718458	0.924024	0.902402	19.99312	241.633	141005.3
1158.6	0.827034	5.789238	2.677507	0.922592	0.902259	19.68881	238.0916	141243.4
1158.8	0.827465	5.792256	2.633813	0.921063	0.902106	19.36423	234.3183	141477.7
1159	0.82789	5.795232	2.587052	0.919427	0.901943	19.01699	230.2873	141708
1159.2	0.82831	5.798169	2.536814	0.91767	0.901767	18.64406	225.9663	141934
1159.4	0.828724	5.801068	2.48257	0.915772	0.901577	18.24156	221.3138	142155.3
1159.6	0.829133	5.80393	2.423615	0.91371	0.901371	17.8043	216.2751	142371.5
1159.8	0.829537	5.806757	2.358982	0.911449	0.901145	17.32515	210.7767	142582.3
1160	0.829936	5.80955	2.287281	0.908941	0.900894	16.79387	204.7141	142787
1160.2	0.83033	5.81231	2.206381	0.906111	0.900611	16.1948	197.932	142985
1160.4	0.83072	5.815039	2.112717	0.902834	0.900283	15.50166	190.1787	143175.2
1160.6	0.831105	5.817738	1.999382	0.89885	0.899885	14.6636	180.9915	143356.1
1160.8	0.831487	5.820407	1.84876	0.888758	0.898876	13.54372	169.2439	143525.4
1161	0.831864	5.823048	1.486987	0.863749	0.896375	10.86312	146.441	143671.8
1161.2	0.832237	5.825662	1.306666	0.840968	0.894097	9.521528	122.3079	143794.1
1161.4	0.832607	5.828248	1.236127	0.832056	0.893206	8.998541	111.1204	143905.3
1161.6	0.832973	5.83081	1.18475	0.825565	0.892557	8.61827	105.7009	144011
1161.8	0.833335	5.833346	1.143354	0.820335	0.892034	8.312269	101.5832	144112.5
1162	0.833694	5.835858	1.108341	0.815912	0.891591	8.053724	98.19596	144210.7
1162.2	0.834049	5.838346	1.077852	0.81206	0.891206	7.828793	95.29511	144306
1162.4	0.834402	5.840812	1.050778	0.80864	0.890864	7.629214	92.74804	144398.8
1162.6	0.834751	5.843255	1.026392	0.805559	0.890556	7.449588	90.47281	144489.3
1162.8	0.835097	5.845677	1.004192	0.802754	0.890275	7.286158	88.41447	144577.7
1163	0.83544	5.848078	0.983807	0.798618	0.889862	7.134935	86.52655	144664.2

Volume at Area 4A
Building 2 Truck Yard

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	∑ Volume (c.f.)	∑ Volume (ac-ft)
448.26	0.00	0			
			5	5	0.00
448.40	0.14	68			
			114	119	0.00
448.60	0.34	1074			
			539	658	0.02
448.80	0.54	4312			
			938	1596	0.04
449.00	0.74	5071			
			1059	2655	0.06
449.20	0.94	5519			

Peak Flow Hydrologic Analysis

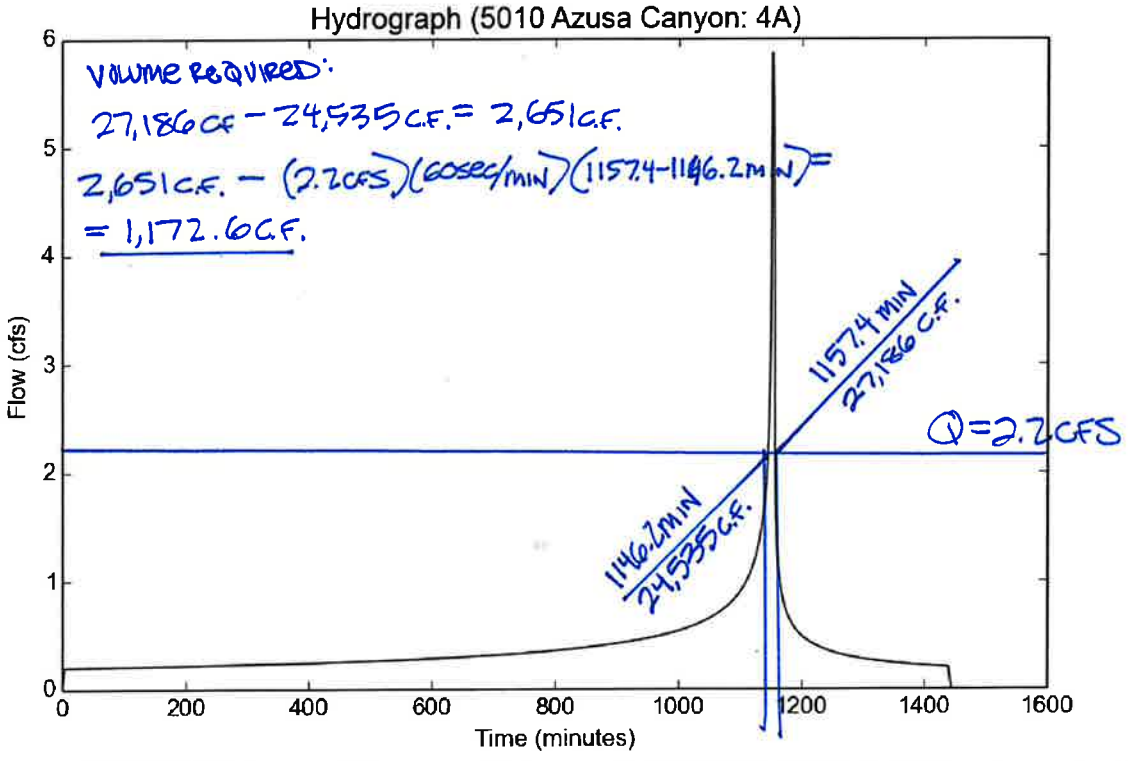
File location: O:/3500-3599/3521/hydrocalc/5010 Azusa Canyon Report.pdf
Version: HydroCalc 1.0.2

Input Parameters

Project Name	5010 Azusa Canyon
Subarea ID	4A
Area (ac)	1.55
Flow Path Length (ft)	340.0
Flow Path Slope (vft/hft)	0.0078
50-yr Rainfall Depth (in)	7.0
Percent Impervious	0.9
Soil Type	8
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	7.0
Peak Intensity (in/hr)	4.1764
Undeveloped Runoff Coefficient (Cu)	0.9539
Developed Runoff Coefficient (Cd)	0.9
Time of Concentration (min)	5.0
Clear Peak Flow Rate (cfs)	5.8261
Burned Peak Flow Rate (cfs)	5.8261
24-Hr Clear Runoff Volume (ac-ft)	0.7631
24-Hr Clear Runoff Volume (cu-ft)	33241.4266



Inputs: 5010 Azusa Canyon

Subarea ID	Area (ac)	Flow Path L	Flow Path S	50-yr Rainf	Percent Im	Soil Type	Design Sto	Fire Factor
4A	1.55	340	0.0078	7	0.9	8	50-yr	0

Outputs: 5010 Azusa Canyon

Area (ac)	Modeled (!	Time of Co	Clear Peak	24-Hr Clea	Burned Pe	Peak Inten	Undevelop	Developed
4A	7	5	5.861	0.763118	5.826067	4.176392	0.95393	0.9

Hydrograph: 5010 Azusa Canyon - 4A

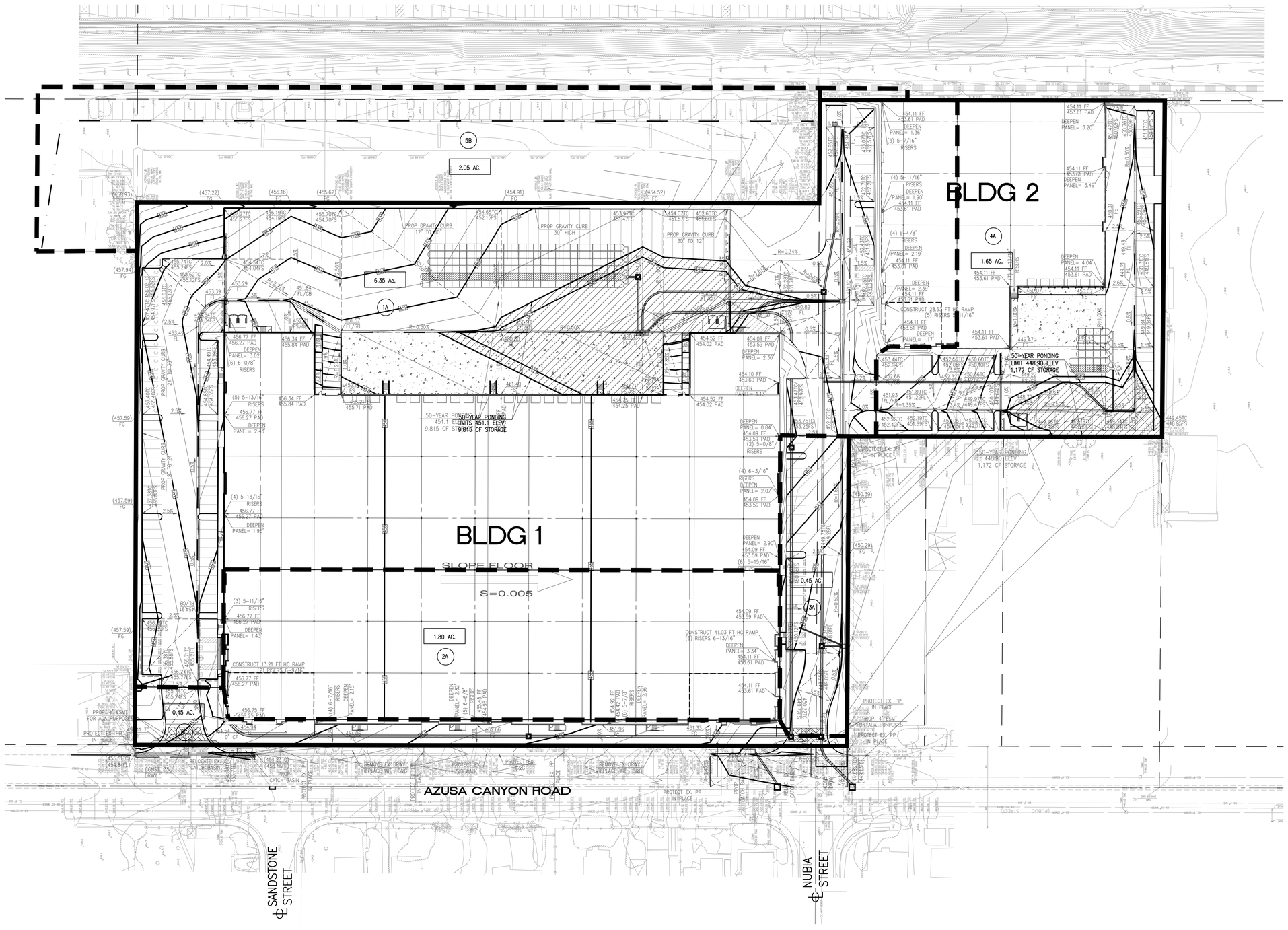
Time (min)	Incrementa	Incrementa	Intensity (i	Undevelop	Developed	Clear Peak	Incrementa	Cumulative
0	0	0	0	0	0	0	0	0
0.2	7.36E-05	0.000515	0	0	0	0.007867	0.047202	0.047202
0.4	0.000147	0.001031	0	0	0	0.015734	0.141607	0.188809
0.6	0.000221	0.001546	0	0	0	0.023601	0.236011	0.424821
0.8	0.000294	0.002061	0	0	0	0.031468	0.330416	0.755237
1	0.000368	0.002577	0	0	0	0.039335	0.424821	1.180057
1.2	0.000442	0.003092	0	0	0	0.047202	0.519225	1.699283
1.4	0.000515	0.003608	0	0	0	0.055069	0.61363	2.312913
1.6	0.000589	0.004124	0	0	0	0.062936	0.708034	3.020947
1.8	0.000663	0.004639	0	0	0	0.070803	0.802439	3.823386
2	0.000736	0.005155	0	0	0	0.07867	0.896844	4.72023
2.2	0.00081	0.005671	0	0	0	0.086538	0.991248	5.711478
2.4	0.000884	0.006186	0	0	0	0.094405	1.085653	6.797131
2.6	0.000957	0.006702	0	0	0	0.102272	1.180057	7.977188
2.8	0.001031	0.007218	0	0	0	0.110139	1.274462	9.25165
3	0.001105	0.007734	0	0	0	0.118006	1.368867	10.62052
3.2	0.001179	0.00825	0	0	0	0.125873	1.463271	12.08379
3.4	0.001252	0.008766	0	0	0	0.13374	1.557676	13.64146
3.6	0.001326	0.009282	0	0	0	0.141607	1.65208	15.29354
3.8	0.0014	0.009798	0	0	0	0.149474	1.746485	17.04003
4	0.001473	0.010314	0	0	0	0.157341	1.84089	18.88092
4.2	0.001547	0.01083	0	0	0	0.165208	1.935294	20.81621
4.4	0.001621	0.011346	0	0	0	0.173075	2.029699	22.84591
4.6	0.001695	0.011863	0	0	0	0.180942	2.124103	24.97002
4.8	0.001768	0.012379	0	0	0	0.188809	2.218508	27.18852
5	0.001842	0.012895	0.154741	0.1	0.82	0.196676	2.312913	29.50144
5.2	0.001916	0.013411	0.154754	0.1	0.82	0.196692	2.360211	31.86165
5.4	0.00199	0.013928	0.154767	0.1	0.82	0.196708	2.360404	34.22205
5.6	0.002063	0.014444	0.154779	0.1	0.82	0.196725	2.360598	36.58265
5.8	0.002137	0.014961	0.154792	0.1	0.82	0.196741	2.360791	38.94344
6	0.002211	0.015477	0.154805	0.1	0.82	0.196757	2.360984	41.30442
6.2	0.002285	0.015994	0.154817	0.1	0.82	0.196773	2.361177	43.6656
6.4	0.002359	0.01651	0.15483	0.1	0.82	0.196789	2.36137	46.02697
6.6	0.002432	0.017027	0.154843	0.1	0.82	0.196805	2.361564	48.38854
6.8	0.002506	0.017544	0.154855	0.1	0.82	0.196821	2.361757	50.75029

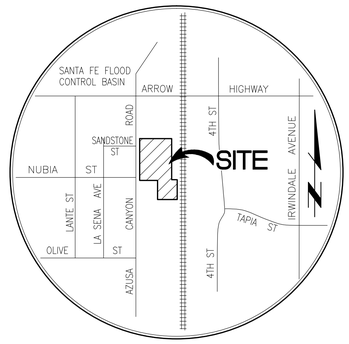
1144.4	0.744108	5.208754	1.442615	0.858143	0.895814	2.003088	23.92113	24308.19
1144.6	0.744892	5.214245	1.45668	0.85992	0.895992	2.023018	24.15664	24332.34
1144.8	0.745687	5.219807	1.471192	0.861753	0.896175	2.043592	24.39966	24356.74
1145	0.746492	5.225441	1.486179	0.863647	0.896365	2.064845	24.65062	24381.39
1145.2	0.747307	5.231152	1.501665	0.865504	0.89655	2.086794	24.90983	24406.3
1145.4	0.748135	5.236942	1.517681	0.866577	0.896658	2.109303	25.17658	24431.48
1145.6	0.748974	5.242815	1.534259	0.867688	0.896769	2.132608	25.45146	24456.93
1145.8	0.749825	5.248775	1.551434	0.868839	0.896884	2.156757	25.73619	24482.67
1146	0.750689	5.254826	1.569243	0.870032	0.897003	2.181805	26.03137	24508.7
1146.2	0.751567	5.260972	1.587729	0.87127	0.897127	2.207812	26.33771	24535.04
1146.4	0.75246	5.26722	1.606938	0.872557	0.897256	2.234843	26.65593	24561.69
1146.6	0.753367	5.273572	1.626918	0.873896	0.89739	2.262968	26.98687	24588.68
1146.8	0.754291	5.280037	1.647727	0.87529	0.897529	2.292269	27.33142	24616.01
1147	0.755231	5.286619	1.669426	0.876744	0.897674	2.322832	27.69061	24643.7
1147.2	0.75619	5.293327	1.692084	0.878262	0.897826	2.354755	28.06552	24671.77
1147.4	0.757167	5.300167	1.715776	0.879849	0.897985	2.388149	28.45742	24700.23
1147.6	0.758164	5.307148	1.740589	0.881511	0.898151	2.423134	28.86769	24729.09
1147.8	0.759183	5.31428	1.766619	0.883255	0.898326	2.459848	29.29789	24758.39
1148	0.760225	5.321574	1.793975	0.885088	0.898509	2.498449	29.74979	24788.14
1148.2	0.761292	5.329041	1.822782	0.887018	0.898702	2.539114	30.22538	24818.37
1148.4	0.762385	5.336695	1.853182	0.889055	0.898905	2.582045	30.72695	24849.09
1148.6	0.763507	5.344552	1.885337	0.891209	0.899121	2.627476	31.25713	24880.35
1148.8	0.764661	5.35263	1.919438	0.893494	0.899349	2.675681	31.81894	24912.17
1149	0.76585	5.360948	1.955707	0.895923	0.899592	2.726975	32.41594	24944.59
1149.2	0.767076	5.369531	1.994404	0.898516	0.899852	2.781736	33.05227	24977.64
1149.4	0.768344	5.378408	2.035843	0.900145	0.900014	2.840046	33.73069	25011.37
1149.6	0.769659	5.387612	2.080397	0.901703	0.90017	2.902703	34.4565	25045.82
1149.8	0.771026	5.397184	2.128527	0.903387	0.900339	2.970413	35.2387	25081.06
1150	0.772454	5.407175	2.180803	0.905216	0.900522	3.043984	36.08638	25117.15
1150.2	0.77395	5.417647	2.237947	0.907215	0.900721	3.124438	37.01053	25154.16
1150.4	0.775526	5.428682	2.300891	0.909417	0.900942	3.213101	38.02523	25192.19
1150.6	0.777198	5.440388	2.370877	0.911865	0.901187	3.311734	39.14901	25231.33
1150.8	0.778987	5.45291	2.449619	0.91462	0.901462	3.42277	40.40702	25271.74
1151	0.780923	5.466458	2.539586	0.917767	0.901777	3.549716	41.83491	25313.58
1151.2	0.78305	5.481353	2.64457	0.921439	0.902144	3.697963	43.48607	25357.06
1151.4	0.785447	5.498132	2.770948	0.92586	0.902586	3.87658	45.44726	25402.51
1151.6	0.788262	5.517831	2.931099	0.931463	0.903146	4.103177	47.87854	25450.39
1151.8	0.79187	5.543093	3.156676	0.93671	0.903671	4.421525	51.14821	25501.54
1152	0.8	5.6	3.760569	0.947642	0.904764	5.273764	58.17174	25559.71
1152.2	0.804237	5.629662	4.036021	0.952376	0.905238	5.663014	65.62067	25625.33
1152.4	0.806118	5.642829	4.111952	0.953217	0.905322	5.770091	68.59863	25693.93
1152.6	0.807585	5.653097	4.151388	0.953653	0.905365	5.82571	69.57481	25763.5
1152.8	0.808835	5.661843	4.170749	0.953868	0.905387	5.853018	70.07237	25833.57
1153	0.809944	5.669607	4.176392	0.95393	0.905393	5.860978	70.28398	25903.86
1153.2	0.810953	5.676668	4.171528	0.953876	0.905388	5.854117	70.29057	25974.15
1153.4	0.811885	5.683195	4.157997	0.953727	0.905373	5.835033	70.1349	26044.28
1153.6	0.812757	5.689296	4.136929	0.953493	0.905349	5.805317	69.84209	26114.13

1153.8	0.813578	5.695048	4.109024	0.953184	0.905318	5.765962	69.42767	26183.55
1154	0.814358	5.700507	4.074708	0.952804	0.90528	5.717567	68.90118	26252.46
1154.2	0.815102	5.705714	4.034197	0.952356	0.905236	5.660443	68.26806	26320.72
1154.4	0.815815	5.710704	3.987548	0.951752	0.905175	5.594616	67.53035	26388.25
1154.6	0.8165	5.715501	3.93467	0.950794	0.905079	5.519842	66.68675	26454.94
1154.8	0.817161	5.720128	3.875327	0.94972	0.904972	5.435946	65.73473	26520.68
1155	0.8178	5.724602	3.809126	0.948522	0.904852	5.342378	64.66994	26585.35
1155.2	0.81842	5.728938	3.735486	0.947188	0.904719	5.238324	63.48421	26648.83
1155.4	0.819021	5.733148	3.653583	0.945706	0.904571	5.122632	62.16574	26711
1155.6	0.819606	5.737243	3.562263	0.944052	0.904405	4.99368	60.69787	26771.69
1155.8	0.820176	5.741233	3.459877	0.942199	0.90422	4.849159	59.05704	26830.75
1156	0.820732	5.745125	3.344004	0.940101	0.90401	4.68567	57.20898	26887.96
1156.2	0.821275	5.748927	3.21088	0.937691	0.903769	4.497936	55.10163	26943.06
1156.4	0.821806	5.752644	3.054147	0.934854	0.903485	4.277034	52.64982	26995.71
1156.6	0.822326	5.756283	2.861428	0.929026	0.902903	4.004566	49.6896	27045.4
1156.8	0.822835	5.759848	2.60106	0.919917	0.901992	3.636509	45.84645	27091.25
1157	0.823335	5.763344	1.960132	0.89622	0.899622	2.733236	38.21847	27129.46
1157.2	0.823825	5.766775	1.645364	0.875132	0.897513	2.28894	30.13306	27159.6
1157.4	0.824306	5.770145	1.527785	0.867254	0.896725	2.123506	26.47468	27186.07
1157.6	0.824779	5.773456	1.444309	0.858357	0.895836	2.005489	24.77397	27210.85
1157.8	0.825245	5.776712	1.378437	0.850035	0.895003	1.912244	23.5064	27234.35
1158	0.825702	5.779916	1.323716	0.843122	0.894312	1.834913	22.48294	27256.84
1158.2	0.826153	5.78307	1.276822	0.837197	0.89372	1.768738	21.6219	27278.46
1158.4	0.826597	5.786177	1.235779	0.832012	0.893201	1.710889	20.87776	27299.34
1158.6	0.827034	5.789238	1.1993	0.827403	0.89274	1.659528	20.2225	27319.56
1158.8	0.827465	5.792256	1.166491	0.823259	0.892326	1.61338	19.63745	27339.2
1159	0.82789	5.795232	1.136706	0.819496	0.89195	1.571521	19.10941	27358.31
1159.2	0.82831	5.798169	1.109458	0.816053	0.891605	1.533258	18.62868	27376.93
1159.4	0.828724	5.801068	1.084371	0.812884	0.891288	1.498056	18.18789	27395.12
1159.6	0.829133	5.80393	1.061148	0.80995	0.890995	1.46549	17.78128	27412.9
1159.8	0.829537	5.806757	1.039549	0.807221	0.890722	1.435222	17.40427	27430.31
1160	0.829936	5.80955	1.019379	0.804673	0.890467	1.406971	17.05316	27447.36
1160.2	0.83033	5.81231	1.000474	0.802285	0.890228	1.380509	16.72488	27464.09
1160.4	0.83072	5.815039	0.9827	0.798371	0.889837	1.355386	16.41537	27480.5
1160.6	0.831105	5.817738	0.965939	0.794638	0.889464	1.33171	16.12258	27496.62
1160.8	0.831487	5.820407	0.950094	0.791108	0.889111	1.309345	15.84633	27512.47
1161	0.831864	5.823048	0.935079	0.787763	0.888776	1.288168	15.58508	27528.05
1161.2	0.832237	5.825662	0.92082	0.784587	0.888459	1.268071	15.33744	27543.39
1161.4	0.832607	5.828248	0.907252	0.781565	0.888156	1.248962	15.1022	27558.49
1161.6	0.832973	5.83081	0.894319	0.778684	0.887868	1.230758	14.87832	27573.37
1161.8	0.833335	5.833346	0.88197	0.775933	0.887593	1.213387	14.66487	27588.04
1162	0.833694	5.835858	0.87016	0.773302	0.88733	1.196785	14.46103	27602.5
1162.2	0.834049	5.838346	0.85885	0.770783	0.887078	1.180894	14.26607	27616.76
1162.4	0.834402	5.840812	0.848003	0.768367	0.886837	1.165663	14.07934	27630.84
1162.6	0.834751	5.843255	0.837589	0.766047	0.886605	1.151046	13.90025	27644.74
1162.8	0.835097	5.845677	0.827577	0.763817	0.886382	1.137001	13.72828	27658.47
1163	0.83544	5.848078	0.817941	0.761671	0.886167	1.123491	13.56295	27672.04

APPENDIX D

HYDROLOGY MAP





VICINITY MAP

N.T.S.

SUBAREA DATA SUMMARY

SUBAREA	AREA (ACRES)	LENGTH (FEET)	SLOPE	RAINFALL DEPTH (INCH)	SOIL TYPE	BURN FACTOR	PERCENT IMPERVIOUSNESS	Tc (MINUTES)	Q50 DESIGN (CFS)	Q50 RESTRICTED (CFS)
(1A)	6.35	840	0.0072	7.0	8	0	0.9	9	18.1	8.9
(2A)	1.8	535	0.0050	7.0	8	0	0.9	7	5.8	8.9
(3A)	0.45	220	0.0162	7.0	8	0	0.9	5	1.7	8.9
(4A)	1.55	340	0.0078	7.0	8	0	0.9	5	5.8	8.9
(5B)	2.05	850	0.0088	7.0	8	0	0.9	9	5.8	N/A
(6C)	0.45	75	0.0280	7.0	8	0	0.9	5	1.7	N/A

LEGEND

- PROJECT BOUNDARY
- SUBAREA BOUNDARY
- SUBAREA FLOWPATH
- 1.00 AC. — SUBAREA AREA
- (1A) — SUBAREA NUMBER
- APPROXIMATE LIMITS OF 50-YEAR PONDING

Last Update: 4/6/18
O:\3500-3599\3521\3521HYD.dwg

0 20 40 80 120

SCALE:1"=40'

CITY OF IRWINDALE
PUBLIC WORKS DEPARTMENT

PROPOSED CONDITION HYDROLOGY MAP
FOR
5010 AZUSA CANYON

PREPARED FOR:
OVERTON MOORE PROPERTIES
19300 HAMILTON AVENUE
GARDENA CA, 90248
PHONE: (310) 323-9100
FAX: (310) 608-7997

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____

Public Works Director R.C.E. XXXXX

Sheet 1 of 1 Sheets

APPENDIX G

Noise Modeling Worksheets

APPENDIX G.1

Noise Monitoring Worksheets

Monitoring Location: Site 1
Monitoring Date: 12/10/2018

Monitoring Period

Time	LAeq	LASmax	LASmin
10:29:03	75.2	81.9	61.9
10:30:03	77.8	85.0	67.1
10:31:03	73.6	84.1	66.8
10:32:03	76.3	80.0	70.5
10:33:03	70.1	78.0	63.7
10:34:03	79.0	85.4	64.8
10:35:03	75.1	77.9	67.0
10:36:03	79.4	85.9	68.0
10:37:03	76.0	84.1	65.1
10:38:03	80.6	87.7	70.7
10:39:03	76.3	83.3	69.4
10:40:03	72.9	79.6	61.9
10:41:03	74.6	82.4	62.1
10:42:03	76.3	82.4	64.4
10:43:03	74.4	80.2	64.4
10:44:03	72.5	77.2	74.8

15-minute LAeq **76.4**

Monitoring Location: Site 2
Monitoring Date: 12/10/2018

Monitoring Period

Time	LAeq	LASmax	LASmin
11:05:14	69.7	79.8	59.6
11:06:14	67.2	74.7	52.7
11:07:14	70.1	76.1	57.6
11:08:14	69.1	75.8	55.9
11:09:14	68.6	74.9	55.4
11:10:14	70.4	76.7	56.3
11:11:14	66.5	74.8	51.6
11:12:14	67.1	75.6	53.4
11:13:14	67.9	72.6	55.9
11:14:14	67.7	73.8	59.5
11:15:14	67.0	72.6	60.6
11:16:14	66.1	72.0	55.9
11:17:14	65.3	70.8	54.9
11:18:14	66.6	74.2	52.0
11:19:14	67.7	74.3	59.1
11:20:14	61.3	65.7	62.4

15-minute LAeq **67.8**

Monitoring Location: Site 3
Monitoring Date: 12/10/2018

Monitoring Period

Time	LAeq	LASmax	LASmin
11:40:33	65.8	76.0	47.5
11:41:33	64.4	69.9	55.9
11:42:33	59.2	66.0	53.6
11:43:33	66.2	76.6	56.3
11:44:33	64.0	74.3	50.1
11:45:33	65.0	73.4	50.6
11:46:33	63.9	69.7	53.6
11:47:33	64.3	70.8	56.6
11:48:33	68.9	78.9	56.3
11:49:33	64.5	71.6	58.2
11:50:33	60.3	66.9	49.5
11:51:33	70.1	75.9	58.6
11:52:33	69.0	76.5	62.4
11:53:33	63.2	72.9	52.7
11:54:33	61.1	67.8	46.6
11:55:33	64.2	66.7	64.8

15-minute LAeq **65.6**

Monitoring Location: Site 4
Monitoring Date: 12/10/2018

Monitoring Period

Time	LAeq	LASmax	LASmin
12:02:35	66.6	76.2	56.8
12:03:35	80.9	92.1	60.2
12:04:35	69.5	77.1	59.9
12:05:35	72.6	82.0	58.0
12:06:35	65.7	74.1	56.5
12:07:35	68.0	75.7	58.0
12:08:35	63.7	68.0	57.5
12:09:35	68.8	75.4	56.2
12:10:35	70.3	78.6	58.1
12:11:35	69.4	80.3	56.1
12:12:35	70.3	74.9	61.3
12:13:35	75.9	85.3	59.5
12:14:35	79.0	93.6	60.5
12:15:35	69.1	79.0	60.4
12:16:35	67.5	76.3	57.5
12:17:35	57.8	62.3	59.4

15-minute LAeq **73.2**

APPENDIX G.2

Construction Noise Worksheet

Project Title: Single Family Residential

Parameters

Construction Hours:

11	Daytime hours (7:00 AM to 7:00 PM)
0	Evening hours (7:00 PM to 10:00 PM)
0	Nighttime hours (10:00 PM to 7:00 AM)

Calculation

Construction Phase	**Number of**	**Acoustical**	**Actual Noise Level**	**Distance**	**Leq**	**Estimate Noise Shielding**
Equipment Type	**Units**	**Usage Factor (%)**	**At 50 feet, Lmax**	**Feet**		**dBA**
Demolition					78.5	
Excavators	2	40	80.7	75	73.2	0
Loaders	2	40	79.1	75	71.6	0
Grading					85.0	
Scrapers	4	40	83.6	75	76.1	0
Blade	1	50	85	75	78.5	0
Loaders	1	40	79.1	75	71.6	0
Water Truck	1	50	85	75	78.5	0
Building Construction					86.4	
Generators	6	50	80.6	75	74.1	0
Loaders	2	40	79.1	75	71.6	0
Water Truck	1	50	85	75	78.5	0
Excavators	4	40	80.7	75	73.2	0
Crane	1	16	80.6	75	69.1	0
Laser Screed	1	50	85	75	78.5	0
Concrete Pump	1	20	81.4	75	70.9	0
Asphalt Tanker	1	50	85	75	78.5	0
Paving					84.9	
Scrapers	2	40	83.6	75	76.1	0
Loader	1	40	79.1	75	71.6	0
Bobcats	2	50	85	75	78.5	0
Laser Screed	1	50	85	75	78.5	0
Architectural Coating					74.2	
Compressor	2	40	77.7	75	70.2	0
Man Lift	2	20	74.7	75	64.2	0

APPENDIX G.3

Roadway Noise Worksheets

rev. (Date)

Weekday AM Peak Hour Volumes

Intersection: 10
Azusa Canyon Road (NS)/Arrow Hwy (EW)

Azusa Canyon Road

Southbound

	right	through	left
Existing	8	4	10
Existing plus Pro	8	4	10
Future Baseline	8	4	10
Future Baseline	8	4	10
Future Baseline	8	4	10
Future Baseline	8	4	10

Eastbound

Arrow Highway

	left	through	right
Existing	5	806	97
Existing plus Pro	5	806	198
Future Baseline	5	822	99
Future Baseline	5	822	200
Future Baseline	5	1,097	119
Future Baseline	5	1,099	222

N
W E
S

Westbound

	right	through	left
Existing	9	1,810	91
Existing plus Pro	9	1,810	135
Future Baseline	9	1,846	93
Future Baseline	9	1,846	137
Future Baseline	9	1,955	99
Future Baseline	9	1,960	143

Northbound

	left	through	right
Existing	708	4	125
Existing plus Pro	708	4	125
Future Baseline	722	4	128
Future Baseline	722	4	128
Future Baseline	743	4	150
Future Baseline	748	4	150

ADT

Road	Azusa Canyon Road		Arrow Highway	
Leg	North of	South of	East of	West of
Cross Street	Arrow Highway		Azusa Canyon Road	
Existing	320.0	8,232.0	22,808.0	27,472.0
Existing plus Pro	320.0	9,392.0	23,160.0	28,280.0
Future Baseline	320.0	8,400.0	23,264.0	28,016.0
Future Baseline	320.0	9,560.0	23,616.0	28,824.0
Future Baseline	320.0	8,952.0	26,560.0	31,416.0
Future Baseline	320.0	10,168.0	26,968.0	32,336.0

2

NOISE LEVEL CONTOURS - Existing Plus Project Weekday Off-Site ADT Volumes

ROADWAY NAME / Segment	Land Use	Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor (1)	Barrier Attn. dB(A)	Vehicle Mix: Medium Trucks	Vehicle Mix: Heavy Trucks	dB(A) CNEL	Traffic Volumes: Day	Eve	Night	MTd	HTd	MTe	HTe	MTn	HTn	Ref. Energy Levels: A	MT	HT	Dist Adj	Ld: A	MT	HT	Total	Le: A	MT	HT	Total	Ln: A	MT	HT	Total
Azusa Canyon n/o Arrow																																				
Existing		2	0	320	40	75	0	0	1.8%	0.7%	47.8	249	41	31	5	2	0	0	0	0	67.4	76.3	81.2	-1.8	47.2	39.4	40.2	48.6	44.3	31.8	30.1	44.7	31.1	29.9	31.0	35.5
Existing plus Project		2	0	320	40	75	0	0	1.8%	0.7%	47.8	249	41	31	5	2	0	0	0	0	67.4	76.3	81.2	-1.8	47.2	39.4	40.2	48.6	44.3	31.8	30.1	44.7	31.1	29.9	31.0	35.5
Future Baseline		2	0	320	40	75	0	0	1.8%	0.7%	47.8	249	41	31	5	2	0	0	0	0	67.4	76.3	81.2	-1.8	47.2	39.4	40.2	48.6	44.3	31.8	30.1	44.7	31.1	29.9	31.0	35.5
Future Baseline with Project		2	0	320	40	75	0	0	1.8%	0.7%	47.8	249	41	31	5	2	0	0	0	0	67.4	76.3	81.2	-1.8	47.2	39.4	40.2	48.6	44.3	31.8	30.1	44.7	31.1	29.9	31.0	35.5
Future Baseline plus Cumulative		2	0	320	40	75	0	0	1.8%	0.7%	47.8	249	41	31	5	2	0	0	0	0	67.4	76.3	81.2	-1.8	47.2	39.4	40.2	48.6	44.3	31.8	30.1	44.7	31.1	29.9	31.0	35.5
Future Baseline plus Cumulative with Project		2	0	320	40	75	0	0	1.8%	0.7%	47.8	249	41	31	5	2	0	0	0	0	67.4	76.3	81.2	-1.8	47.2	39.4	40.2	48.6	44.3	31.8	30.1	44.7	31.1	29.9	31.0	35.5
Azusa Canyon s/o Arrow																																				
Existing		4	15	8,232	30	75	0	0	1.8%	0.7%	59.8	6,396	1,045	790	130	51	7	2	11	5	62.5	73.1	80.3	-1.6	58.0	51.8	54.9	60.4	55.0	44.2	44.8	55.7	41.8	42.3	45.7	48.4
Existing plus Project		4	15	9,392	30	75	0	0	1.8%	0.7%	60.4	7,298	1,193	902	148	59	9	2	13	5	62.5	73.1	80.3	-1.6	58.6	52.4	55.5	61.0	55.6	44.8	45.3	56.3	42.4	42.9	46.3	49.0
Future Baseline		4	15	8,400	30	75	0	0	1.8%	0.7%	59.9	6,527	1,067	806	132	52	8	2	11	5	62.5	73.1	80.3	-1.6	58.1	51.9	55.0	60.5	55.1	44.3	44.8	55.8	41.9	42.4	45.8	48.5
Future Baseline with Project		4	15	9,560	30	75	0	0	1.8%	0.7%	60.5	7,428	1,214	918	150	60	9	2	13	5	62.5	73.1	80.3	-1.6	58.7	52.4	55.6	61.0	55.7	44.9	45.4	56.4	42.5	43.0	46.3	49.1
Future Baseline plus Cumulative		4	15	8,952	30	75	0	0	1.8%	0.7%	60.2	6,956	1,137	859	141	56	8	2	12	5	62.5	73.1	80.3	-1.6	58.4	52.2	55.3	60.8	55.4	44.6	45.1	56.1	42.2	42.7	46.1	48.8
Future Baseline plus Cumulative with Project		4	15	10,168	30	75	0	0	1.8%	0.7%	60.7	7,901	1,291	976	160	63	9	2	14	6	62.5	73.1	80.3	-1.6	58.9	52.7	55.8	61.3	55.9	45.1	45.7	56.7	42.8	43.3	46.6	49.3
Arrow Hwy e/o Azusa																																				
Existing		4	5	22,808	45	75	0	0	1.8%	0.7%	67.8	####	2,897	2,190	359	142	21	5	31	13	69.3	77.6	82.1	-1.7	67.4	58.9	59.4	68.5	64.4	51.3	49.2	64.8	51.2	49.4	50.1	55.1
Existing plus Project		4	5	23,160	45	75	0	0	1.8%	0.7%	67.8	####	2,941	2,223	364	144	21	5	31	13	69.3	77.6	82.1	-1.7	67.5	58.9	59.4	68.6	64.5	51.4	49.3	64.8	51.3	49.5	50.2	55.2
Future Baseline		4	5	23,264	45	75	0	0	1.8%	0.7%	67.8	####	2,955	2,233	366	145	21	5	31	13	69.3	77.6	82.1	-1.7	67.5	59.0	59.5	68.6	64.5	51.4	49.3	64.8	51.3	49.5	50.2	55.2
Future Baseline with Project		4	5	23,616	45	75	0	0	1.8%	0.7%	67.9	####	2,999	2,267	372	147	21	5	32	13	69.3	77.6	82.1	-1.7	67.6	59.0	59.5	68.7	64.6	51.4	49.4	64.9	51.4	49.6	50.3	55.3
Future Baseline plus Cumulative		4	5	26,560	45	75	0	0	1.8%	0.7%	68.4	####	3,373	2,550	418	166	24	5	36	15	69.3	77.6	82.1	-1.7	68.1	59.5	60.0	69.2	65.1	52.0	49.9	65.4	51.9	50.1	50.8	55.8
Future Baseline plus Cumulative with Project		4	5	26,968	45	75	0	0	1.8%	0.7%	68.5	####	3,425	2,589	424	168	25	5	37	15	69.3	77.6	82.1	-1.7	68.1	59.6	60.1	69.3	65.2	52.0	49.9	65.5	52.0	50.1	50.9	55.8
Arrow Hwy w/o Azusa																																				
Existing		4	5	27,472	45	75	0	0	1.8%	0.7%	68.6	####	3,489	2,637	432	171	25	5	37	15	69.3	77.6	82.1	-1.7	68.2	59.7	60.2	69.3	65.2	52.1	50.0	65.6	52.0	50.2	50.9	55.9
Existing plus Project		4	5	28,280	45	75	0	0	1.8%	0.7%	68.7	####	3,592	2,715	445	176	26	6	38	16	69.3	77.6	82.1	-1.7	68.3	59.8	60.3	69.5	65.4	52.2	50.1	65.7	52.2	50.4	51.1	56.0
Future Baseline		4	5	28,016	45	75	0	0	1.8%	0.7%	68.7	####	3,558	2,690	441	175	25	6	38	16	69.3	77.6	82.1	-1.7	68.3	59.8	60.3	69.4	65.3	52.2	50.1	65.6	52.1	50.3	51.0	56.0
Future Baseline with Project		4	5	28,824	45	75	0	0	1.8%	0.7%	68.8	####	3,661	2,767	454	180	26	6	39	16	69.3	77.6	82.1	-1.7	68.4	59.9	60.4	69.6	65.4	52.3	50.2	65.8	52.2	50.4	51.2	56.1
Future Baseline plus Cumulative		4	5	31,416	45	75	0	0	1.8%	0.7%	69.1	####	3,990	3,016	494	196	29	6	43	18	69.3	77.6	82.1	-1.7	68.8	60.3	60.8	69.9	65.8	52.7	50.6	66.1	52.6	50.8	51.5	56.5
Future Baseline plus Cumulative with Project		4	5	32,336	45	75	0	0	1.8%	0.7%	69.3	####	4,107	3,104	509	202	29	6	44	18	69.3	77.6	82.1	-1.7	68.9	60.4	60.9	70.1	65.9	52.8	50.7	66.3	52.7	50.9	51.7	56.6

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as aspalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

rev. (Date)

Weekday PM Peak Hour Volumes

Intersection: 10

Azusa Canyon Road (NS)/Arrow Hwy (EW)

Azusa Canyon Road

Southbound

	right	through	left
Existing	22	20	26
Existing plus Pro	22	20	26
Future Baseline	22	20	27
Future Baseline	22	20	27
Future Baseline	22	20	27
Future Baseline	22	20	27

Eastbound

	left	through	right
Existing	9	2,000	299
Existing plus Pro	9	2,000	301
Future Baseline	9	2,040	305
Future Baseline	9	2,040	307
Future Baseline	9	2,168	335
Future Baseline	9	2,168	337

Arrow Highway

W N E S

Westbound

	right	through	left
Existing	14	995	141
Existing plus Pro	14	995	142
Future Baseline	14	1,015	144
Future Baseline	14	1,015	145
Future Baseline	14	1,291	165
Future Baseline	14	1,291	166

Northbound

	left	through	right
Existing	128	7	247
Existing plus Pro	209	7	282
Future Baseline	131	7	252
Future Baseline	212	7	287
Future Baseline	159	7	259
Future Baseline	240	7	294

ADT

Road	Azusa Canyon Road		Arrow Highway	
Leg	North of	South of	East of	West of
Cross Street	Arrow Highway		Azusa Canyon Road	
Existing	784.0	6,736.0	27,384.0	27,624.0
Existing plus Pro	784.0	7,688.0	27,672.0	28,288.0
Future Baseline	792.0	6,872.0	27,936.0	28,176.0
Future Baseline	792.0	7,824.0	28,224.0	28,840.0
Future Baseline	792.0	7,560.0	31,392.0	31,872.0
Future Baseline	792.0	8,512.0	31,680.0	32,536.0

2

NOISE LEVEL CONTOURS - Existing Plus Project Weekday Off-Site ADT Volumes

ROADWAY NAME / Segment	Land Use	Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor (1)	Barrier Attn. dB(A)	Vehicle Mix: Medium Trucks	Vehicle Mix: Heavy Trucks	dB(A) CNEL	Traffic Volumes: Day	Eve	Night	MTd	HTd	MTe	HTe	MTn	HTn	Ref. Energy Levels: A	MT	HT	Dist Adj	Ld: A	MT	HT	Total	Le: A	MT	HT	Total	Ln: A	MT	HT	Total
Azusa Canyon n/o Arrow																																				
Existing		2	0	784	40	75	0	0	1.8%	0.7%	51.7	609	100	75	12	5	1	0	1	0	67.4	76.3	81.2	-1.8	51.1	43.3	44.1	52.5	48.2	35.7	33.9	48.6	35.0	33.8	34.9	39.4
Existing plus Project		2	0	784	40	75	0	0	1.8%	0.7%	51.7	609	100	75	12	5	1	0	1	0	67.4	76.3	81.2	-1.8	51.1	43.3	44.1	52.5	48.2	35.7	33.9	48.6	35.0	33.8	34.9	39.4
Future Baseline		2	0	792	40	75	0	0	1.8%	0.7%	51.8	615	101	76	12	5	1	0	1	0	67.4	76.3	81.2	-1.8	51.2	43.3	44.2	52.5	48.2	35.7	34.0	48.6	35.0	33.9	34.9	39.4
Future Baseline with Project		2	0	792	40	75	0	0	1.8%	0.7%	51.8	615	101	76	12	5	1	0	1	0	67.4	76.3	81.2	-1.8	51.2	43.3	44.2	52.5	48.2	35.7	34.0	48.6	35.0	33.9	34.9	39.4
Future Baseline plus Cumulative		2	0	792	40	75	0	0	1.8%	0.7%	51.8	615	101	76	12	5	1	0	1	0	67.4	76.3	81.2	-1.8	51.2	43.3	44.2	52.5	48.2	35.7	34.0	48.6	35.0	33.9	34.9	39.4
Future Baseline plus Cumulative with Project		2	0	792	40	75	0	0	1.8%	0.7%	51.8	615	101	76	12	5	1	0	1	0	67.4	76.3	81.2	-1.8	51.2	43.3	44.2	52.5	48.2	35.7	34.0	48.6	35.0	33.9	34.9	39.4
Azusa Canyon s/o Arrow																																				
Existing		4	15	6,736	30	75	0	0	1.8%	0.7%	58.9	####	855	647	106	42	6	1	9	4	62.5	73.1	80.3	-1.6	57.1	50.9	54.1	59.5	54.2	43.3	43.9	54.9	41.0	41.5	44.8	47.5
Existing plus Project		4	15	7,688	30	75	0	0	1.8%	0.7%	59.5	####	976	738	121	48	7	2	10	4	62.5	73.1	80.3	-1.6	57.7	51.5	54.6	60.1	54.7	43.9	44.5	55.4	41.5	42.0	45.4	48.1
Future Baseline		4	15	6,872	30	75	0	0	1.8%	0.7%	59.0	####	873	660	108	43	6	1	9	4	62.5	73.1	80.3	-1.6	57.2	51.0	54.1	59.6	54.2	43.4	44.0	55.0	41.0	41.6	44.9	47.6
Future Baseline with Project		4	15	7,824	30	75	0	0	1.8%	0.7%	59.6	####	994	751	123	49	7	2	11	4	62.5	73.1	80.3	-1.6	57.8	51.6	54.7	60.2	54.8	44.0	44.5	55.5	41.6	42.1	45.5	48.2
Future Baseline plus Cumulative		4	15	7,560	30	75	0	0	1.8%	0.7%	59.4	####	960	726	119	47	7	2	10	4	62.5	73.1	80.3	-1.6	57.6	51.4	54.6	60.0	54.7	43.8	44.4	55.4	41.5	42.0	45.3	48.0
Future Baseline plus Cumulative with Project		4	15	8,512	30	75	0	0	1.8%	0.7%	59.9	####	####	817	134	53	8	2	12	5	62.5	73.1	80.3	-1.6	58.2	51.9	55.1	60.5	55.2	44.4	44.9	55.9	42.0	42.5	45.8	48.6
Arrow Hwy e/o Azusa																																				
Existing		4	5	27,384	45	75	0	0	1.8%	0.7%	68.6	####	####	####	431	171	25	5	37	15	69.3	77.6	82.1	-1.7	68.2	59.7	60.2	69.3	65.2	52.1	50.0	65.6	52.0	50.2	50.9	55.9
Existing plus Project		4	5	27,672	45	75	0	0	1.8%	0.7%	68.6	####	####	####	435	173	25	6	37	16	69.3	77.6	82.1	-1.7	68.2	59.7	60.2	69.4	65.3	52.1	50.0	65.6	52.1	50.3	51.0	55.9
Future Baseline		4	5	27,936	45	75	0	0	1.8%	0.7%	68.6	####	####	####	440	174	25	6	38	16	69.3	77.6	82.1	-1.7	68.3	59.8	60.3	69.4	65.3	52.2	50.1	65.6	52.1	50.3	51.0	56.0
Future Baseline with Project		4	5	28,224	45	75	0	0	1.8%	0.7%	68.7	####	####	####	444	176	26	6	38	16	69.3	77.6	82.1	-1.7	68.3	59.8	60.3	69.5	65.4	52.2	50.1	65.7	52.2	50.3	51.1	56.0
Future Baseline plus Cumulative		4	5	31,392	45	75	0	0	1.8%	0.7%	69.1	####	####	####	494	196	29	6	42	18	69.3	77.6	82.1	-1.7	68.8	60.3	60.8	69.9	65.8	52.7	50.6	66.1	52.6	50.8	51.5	56.5
Future Baseline plus Cumulative with Project		4	5	31,680	45	75	0	0	1.8%	0.7%	69.2	####	####	####	499	198	29	6	43	18	69.3	77.6	82.1	-1.7	68.8	60.3	60.8	70.0	65.9	52.7	50.6	66.2	52.7	50.8	51.6	56.5
Arrow Hwy w/o Azusa																																				
Existing		4	5	27,624	45	75	0	0	1.8%	0.7%	68.6	####	####	####	435	172	25	5	37	16	69.3	77.6	82.1	-1.7	68.2	59.7	60.2	69.4	65.3	52.1	50.0	65.6	52.1	50.3	51.0	55.9
Existing plus Project		4	5	28,288	45	75	0	0	1.8%	0.7%	68.7	####	####	####	445	176	26	6	38	16	69.3	77.6	82.1	-1.7	68.3	59.8	60.3	69.5	65.4	52.2	50.1	65.7	52.2	50.4	51.1	56.0
Future Baseline		4	5	28,176	45	75	0	0	1.8%	0.7%	68.7	####	####	####	443	176	26	6	38	16	69.3	77.6	82.1	-1.7	68.3	59.8	60.3	69.5	65.3	52.2	50.1	65.7	52.2	50.3	51.1	56.0
Future Baseline with Project		4	5	28,840	45	75	0	0	1.8%	0.7%	68.8	####	####	####	454	180	26	6	39	16	69.3	77.6	82.1	-1.7	68.4	59.9	60.4	69.6	65.4	52.3	50.2	65.8	52.3	50.4	51.2	56.1
Future Baseline plus Cumulative		4	5	31,872	45	75	0	0	1.8%	0.7%	69.2	####	####	####	502	199	29	6	43	18	69.3	77.6	82.1	-1.7	68.9	60.3	60.8	70.0	65.9	52.7	50.7	66.2	52.7	50.9	51.6	56.6
Future Baseline plus Cumulative with Project		4	5	32,536	45	75	0	0	1.8%	0.7%	69.3	####	####	####	512	203	30	6	44	18	69.3	77.6	82.1	-1.7	69.0	60.4	60.9	70.1	66.0	52.8	50.8	66.3	52.8	51.0	51.7	56.6

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as aspalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

rev. (Date)

Weekday AM Peak Hour Volumes

Intersection: 11
Azusa Canyon Road (NS)/Sandstone St (EW)

Azusa Canyon Road

Southbound

	right	through	left
Existing	5	171	0
Existing plus Pro	5	229	106
Future Baseline	5	174	0
Future Baseline	5	232	106
Future Baseline	5	200	0
Future Baseline	5	260	106

Eastbound

Sandstone St

	left	through	right
Existing	14	0	7
Existing plus Pro	14	0	7
Future Baseline	14	0	7
Future Baseline	14	0	7
Future Baseline	14	0	7
Future Baseline	14	0	7

N
W E
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Westbound

	right	through	left
Existing	0	0	0
Existing plus Pro	15	0	1
Future Baseline	0	0	0
Future Baseline	15	0	1
Future Baseline	0	0	0
Future Baseline	15	0	1

Northbound

	left	through	right
Existing	3	830	0
Existing plus Pro	3	838	8
Future Baseline	3	847	0
Future Baseline	3	855	8
Future Baseline	3	890	0
Future Baseline	3	903	8

ADT

Road	Azusa Canyon Road		Sandstone St	
Leg	North of	South of	East of	West of
Cross Street	Sandstone St		Azusa Canyon Road	
Existing	8,160.0	8,088.0	0.0	232.0
Existing plus Proj	9,656.0	8,688.0	1,040.0	232.0
Future Baseline	8,320.0	8,248.0	0.0	232.0
Future Baseline w	9,816.0	8,848.0	1,040.0	232.0
Future Baseline p	8,872.0	8,800.0	0.0	232.0
Future Baseline p	10,424.0	9,456.0	1,040.0	232.0

2

NOISE LEVEL CONTOURS - Existing Plus Project Weekday Off-Site ADT Volumes

ROADWAY NAME / Segment	Land Use	Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor (1)	Barrier Attn. dB(A)	Vehicle Mix: Medium Trucks	Vehicle Mix: Heavy Trucks	dB(A) CNEL	Traffic Volumes: Day	Eve	Night	MTd	HTd	MTe	HTe	MTn	HTn	Ref. Energy Levels: A	MT	HT	Dist Adj	Ld: A	MT	HT	Total	Le: A	MT	HT	Total	Ln: A	MT	HT	Total
Azusa Canyon n/o Sandstone																																				
Existing		4	15	8,160	30	75	0	0	1.8%	0.7%	59.8	6,340	1,036	783	128	51	7	2	11	5	62.5	73.1	80.3	-1.6	58.0	51.8	54.9	60.4	55.0	44.2	44.7	55.7	41.8	42.3	45.7	48.4
Existing plus Project		4	15	9,656	30	75	0	0	1.8%	0.7%	60.5	7,503	1,226	927	152	60	9	2	13	5	62.5	73.1	80.3	-1.6	58.7	52.5	55.6	61.1	55.7	44.9	45.5	56.4	42.5	43.0	46.4	49.1
Future Baseline		4	15	8,320	30	75	0	0	1.8%	0.7%	59.9	6,465	1,057	799	131	52	8	2	11	5	62.5	73.1	80.3	-1.6	58.1	51.8	55.0	60.4	55.1	44.3	44.8	55.8	41.9	42.4	45.7	48.5
Future Baseline with Project		4	15	9,816	30	75	0	0	1.8%	0.7%	60.6	7,627	1,247	942	154	61	9	2	13	6	62.5	73.1	80.3	-1.6	58.8	52.6	55.7	61.2	55.8	45.0	45.5	56.5	42.6	43.1	46.5	49.2
Future Baseline plus Cumulative		4	15	8,872	30	75	0	0	1.8%	0.7%	60.1	6,894	1,127	852	140	55	8	2	12	5	62.5	73.1	80.3	-1.6	58.3	52.1	55.3	60.7	55.4	44.5	45.1	56.1	42.2	42.7	46.0	48.7
Future Baseline plus Cumulative with Project		4	15	10,424	30	75	0	0	1.8%	0.7%	60.8	8,099	1,324	1,001	164	65	9	2	14	6	62.5	73.1	80.3	-1.6	59.0	52.8	56.0	61.4	56.1	45.2	45.8	56.8	42.9	43.4	46.7	49.4
Azusa Canyon s/o Sandstone																																				
Existing		4	15	8,088	30	75	0	0	1.8%	0.7%	59.7	6,284	1,027	776	127	50	7	2	11	5	62.5	73.1	80.3	-1.6	57.9	51.7	54.9	60.3	55.0	44.1	44.7	55.7	41.8	42.3	45.6	48.3
Existing plus Project		4	15	8,688	30	75	0	0	1.8%	0.7%	60.0	6,751	1,103	834	137	54	8	2	12	5	62.5	73.1	80.3	-1.6	58.2	52.0	55.2	60.6	55.3	44.5	45.0	56.0	42.1	42.6	45.9	48.7
Future Baseline		4	15	8,248	30	75	0	0	1.8%	0.7%	59.8	6,409	1,047	792	130	51	7	2	11	5	62.5	73.1	80.3	-1.6	58.0	51.8	54.9	60.4	55.0	44.2	44.8	55.7	41.8	42.4	45.7	48.4
Future Baseline with Project		4	15	8,848	30	75	0	0	1.8%	0.7%	60.1	6,875	1,124	849	139	55	8	2	12	5	62.5	73.1	80.3	-1.6	58.3	52.1	55.2	60.7	55.3	44.5	45.1	56.0	42.1	42.7	46.0	48.7
Future Baseline plus Cumulative		4	15	8,800	30	75	0	0	1.8%	0.7%	60.1	6,838	1,118	845	138	55	8	2	12	5	62.5	73.1	80.3	-1.6	58.3	52.1	55.2	60.7	55.3	44.5	45.1	56.0	42.1	42.6	46.0	48.7
Future Baseline plus Cumulative with Project		4	15	9,456	30	75	0	0	1.8%	0.7%	60.4	7,347	1,201	908	149	59	9	2	13	5	62.5	73.1	80.3	-1.6	58.6	52.4	55.5	61.0	55.6	44.8	45.4	56.3	42.4	42.9	46.3	49.0
Sandstone St e/o Azusa																																				
Existing		2	0	0	15	75	0	0	1.8%	0.7%	#NUM!	0	0	0	0	0	0	0	0	0	50.8	65.4	74.5	-1.8	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
Existing plus Project		2	0	1,040	15	75	0	0	1.8%	0.7%	45.2	808	132	100	16	6	1	0	1	1	50.8	65.4	74.5	-1.8	40.1	37.9	42.9	45.6	37.1	30.3	32.8	39.1	23.9	28.4	33.7	35.2
Future Baseline		2	0	0	15	75	0	0	1.8%	0.7%	#NUM!	0	0	0	0	0	0	0	0	0	50.8	65.4	74.5	-1.8	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
Future Baseline with Project		2	0	1,040	15	75	0	0	1.8%	0.7%	45.2	808	132	100	16	6	1	0	1	1	50.8	65.4	74.5	-1.8	40.1	37.9	42.9	45.6	37.1	30.3	32.8	39.1	23.9	28.4	33.7	35.2
Future Baseline plus Cumulative		2	0	0	15	75	0	0	1.8%	0.7%	#NUM!	0	0	0	0	0	0	0	0	0	50.8	65.4	74.5	-1.8	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
Future Baseline plus Cumulative with Project		2	0	1,040	15	75	0	0	1.8%	0.7%	45.2	808	132	100	16	6	1	0	1	1	50.8	65.4	74.5	-1.8	40.1	37.9	42.9	45.6	37.1	30.3	32.8	39.1	23.9	28.4	33.7	35.2
Sandstone St w/o Azusa																																				
Existing		1	0	232	25	75	0	0	1.8%	0.7%	42.5	180	29	22	4	1	0	0	0	0	59.4	71.1	78.7	-1.8	40.0	34.8	38.4	43.0	37.0	27.2	28.3	37.9	23.8	25.3	29.2	31.5
Existing plus Project		1	0	232	25	75	0	0	1.8%	0.7%	42.5	180	29	22	4	1	0	0	0	0	59.4	71.1	78.7	-1.8	40.0	34.8	38.4	43.0	37.0	27.2	28.3	37.9	23.8	25.3	29.2	31.5
Future Baseline		1	0	232	25	75	0	0	1.8%	0.7%	42.5	180	29	22	4	1	0	0	0	0	59.4	71.1	78.7	-1.8	40.0	34.8	38.4	43.0	37.0	27.2	28.3	37.9	23.8	25.3	29.2	31.5
Future Baseline with Project		1	0	232	25	75	0	0	1.8%	0.7%	42.5	180	29	22	4	1	0	0	0	0	59.4	71.1	78.7	-1.8	40.0	34.8	38.4	43.0	37.0	27.2	28.3	37.9	23.8	25.3	29.2	31.5
Future Baseline plus Cumulative		1	0	232	25	75	0	0	1.8%	0.7%	42.5	180	29	22	4	1	0	0	0	0	59.4	71.1	78.7	-1.8	40.0	34.8	38.4	43.0	37.0	27.2	28.3	37.9	23.8	25.3	29.2	31.5
Future Baseline plus Cumulative with Project		1	0	232	25	75	0	0	1.8%	0.7%	42.5	180	29	22	4	1	0	0	0	0	59.4	71.1	78.7	-1.8	40.0	34.8	38.4	43.0	37.0	27.2	28.3	37.9	23.8	25.3	29.2	31.5

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as aspalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

rev. (Date)

Weekday PM Peak Hour Volumes

Intersection: 11
Azusa Canyon Road (NS)/Sandstone St (EW)

Azusa Canyon Road

Southbound

	right	through	left
Existing	12	459	0
Existing plus Pro	12	467	15
Future Baseline	12	468	0
Future Baseline	12	476	15
Future Baseline	12	519	0
Future Baseline	12	527	15

Eastbound

Sandstone St

	left	through	right
Existing	10	0	5
Existing plus Pro	10	0	5
Future Baseline	10	0	5
Future Baseline	10	0	5
Future Baseline	10	0	5
Future Baseline	10	0	5

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Westbound

	right	through	left
Existing	0	0	0
Existing plus Pro	92	0	7
Future Baseline	0	0	0
Future Baseline	92	0	7
Future Baseline	0	0	0
Future Baseline	92	0	7

Northbound

	left	through	right
Existing	9	371	0
Existing plus Pro	9	422	1
Future Baseline	9	378	0
Future Baseline	9	429	1
Future Baseline	9	413	0
Future Baseline	9	464	1

ADT

Road	Azusa Canyon Road		Sandstone St	
Leg	North of	South of	East of	West of
Cross Street	Sandstone St		Azusa Canyon Road	
Existing	6,816.0	6,752.0	0.0	288.0
Existing plus Proj	8,144.0	7,288.0	920.0	288.0
Future Baseline	6,944.0	6,880.0	0.0	288.0
Future Baseline w	8,272.0	7,416.0	920.0	288.0
Future Baseline p	7,632.0	7,568.0	0.0	288.0
Future Baseline p	8,960.0	8,104.0	920.0	288.0

2

NOISE LEVEL CONTOURS - Existing Plus Project Weekday Off-Site ADT Volumes

ROADWAY NAME / Segment	Land Use	Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor (1)	Barrier Attn. dB(A)	Vehicle Mix: Medium Trucks	Vehicle Mix: Heavy Trucks	dB(A) CNEL	Traffic Volumes: Day	Eve	Night	MTd	HTd	MTe	HTe	MTn	HTn	Ref. Energy Levels: A	MT	HT	Dist Adj	Ld: A	MT	HT	Total	Le: A	MT	HT	Total	Ln: A	MT	HT	Total
Azusa Canyon n/o Sandstone																																				
Existing		4	15	6,816	30	75	0	0	1.8%	0.7%	59.0	5,296	866	654	107	43	6	1	9	4	62.5	73.1	80.3	-1.6	57.2	51.0	54.1	59.6	54.2	43.4	43.9	54.9	41.0	41.5	44.9	47.6
Existing plus Project		4	15	8,144	30	75	0	0	1.8%	0.7%	59.8	6,328	1,034	782	128	51	7	2	11	5	62.5	73.1	80.3	-1.6	58.0	51.8	54.9	60.3	55.0	44.2	44.7	55.7	41.8	42.3	45.6	48.4
Future Baseline		4	15	6,944	30	75	0	0	1.8%	0.7%	59.1	5,395	882	667	109	43	6	1	9	4	62.5	73.1	80.3	-1.6	57.3	51.1	54.2	59.7	54.3	43.5	44.0	55.0	41.1	41.6	45.0	47.7
Future Baseline with Project		4	15	8,272	30	75	0	0	1.8%	0.7%	59.8	6,427	1,051	794	130	52	8	2	11	5	62.5	73.1	80.3	-1.6	58.0	51.8	54.9	60.4	55.0	44.2	44.8	55.8	41.9	42.4	45.7	48.4
Future Baseline plus Cumulative		4	15	7,632	30	75	0	0	1.8%	0.7%	59.5	5,930	969	733	120	48	7	2	10	4	62.5	73.1	80.3	-1.6	57.7	51.5	54.6	60.1	54.7	43.9	44.4	55.4	41.5	42.0	45.4	48.1
Future Baseline plus Cumulative with Project		4	15	8,960	30	75	0	0	1.8%	0.7%	60.2	6,962	1,138	860	141	56	8	2	12	5	62.5	73.1	80.3	-1.6	58.4	52.2	55.3	60.8	55.4	44.6	45.1	56.1	42.2	42.7	46.1	48.8
Azusa Canyon s/o Sandstone																																				
Existing		4	15	6,752	30	75	0	0	1.8%	0.7%	58.9	5,246	858	648	106	42	6	1	9	4	62.5	73.1	80.3	-1.6	57.1	50.9	54.1	59.5	54.2	43.4	43.9	54.9	41.0	41.5	44.8	47.6
Existing plus Project		4	15	7,288	30	75	0	0	1.8%	0.7%	59.3	5,663	926	700	115	45	7	1	10	4	62.5	73.1	80.3	-1.6	57.5	51.3	54.4	59.9	54.5	43.7	44.2	55.2	41.3	41.8	45.2	47.9
Future Baseline		4	15	6,880	30	75	0	0	1.8%	0.7%	59.0	5,346	874	660	108	43	6	1	9	4	62.5	73.1	80.3	-1.6	57.2	51.0	54.1	59.6	54.2	43.4	44.0	55.0	41.1	41.6	44.9	47.6
Future Baseline with Project		4	15	7,416	30	75	0	0	1.8%	0.7%	59.4	5,762	942	712	117	46	7	1	10	4	62.5	73.1	80.3	-1.6	57.6	51.3	54.5	59.9	54.6	43.8	44.3	55.3	41.4	41.9	45.2	48.0
Future Baseline plus Cumulative		4	15	7,568	30	75	0	0	1.8%	0.7%	59.4	5,880	961	727	119	47	7	2	10	4	62.5	73.1	80.3	-1.6	57.6	51.4	54.6	60.0	54.7	43.9	44.4	55.4	41.5	42.0	45.3	48.1
Future Baseline plus Cumulative with Project		4	15	8,104	30	75	0	0	1.8%	0.7%	59.7	6,297	1,029	778	128	51	7	2	11	5	62.5	73.1	80.3	-1.6	57.9	51.7	54.9	60.3	55.0	44.1	44.7	55.7	41.8	42.3	45.6	48.4
Sandstone St e/o Azusa																																				
Existing		2	0	0	15	75	0	0	1.8%	0.7%	#NUM!	0	0	0	0	0	0	0	0	0	50.8	65.4	74.5	-1.8	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
Existing plus Project		2	0	920	15	75	0	0	1.8%	0.7%	44.7	715	117	88	14	6	1	0	1	1	50.8	65.4	74.5	-1.8	39.6	37.3	42.4	45.0	36.6	29.8	32.2	38.6	23.4	27.9	33.2	34.6
Future Baseline		2	0	0	15	75	0	0	1.8%	0.7%	#NUM!	0	0	0	0	0	0	0	0	0	50.8	65.4	74.5	-1.8	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
Future Baseline with Project		2	0	920	15	75	0	0	1.8%	0.7%	44.7	715	117	88	14	6	1	0	1	1	50.8	65.4	74.5	-1.8	39.6	37.3	42.4	45.0	36.6	29.8	32.2	38.6	23.4	27.9	33.2	34.6
Future Baseline plus Cumulative		2	0	0	15	75	0	0	1.8%	0.7%	#NUM!	0	0	0	0	0	0	0	0	0	50.8	65.4	74.5	-1.8	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####	#####
Future Baseline plus Cumulative with Project		2	0	920	15	75	0	0	1.8%	0.7%	44.7	715	117	88	14	6	1	0	1	1	50.8	65.4	74.5	-1.8	39.6	37.3	42.4	45.0	36.6	29.8	32.2	38.6	23.4	27.9	33.2	34.6
Sandstone St w/o Azusa																																				
Existing		1	0	288	25	75	0	0	1.8%	0.7%	43.4	224	37	28	5	2	0	0	0	0	59.4	71.1	78.7	-1.8	40.9	35.7	39.4	43.9	37.9	28.2	29.2	38.9	24.7	26.3	30.1	32.4
Existing plus Project		1	0	288	25	75	0	0	1.8%	0.7%	43.4	224	37	28	5	2	0	0	0	0	59.4	71.1	78.7	-1.8	40.9	35.7	39.4	43.9	37.9	28.2	29.2	38.9	24.7	26.3	30.1	32.4
Future Baseline		1	0	288	25	75	0	0	1.8%	0.7%	43.4	224	37	28	5	2	0	0	0	0	59.4	71.1	78.7	-1.8	40.9	35.7	39.4	43.9	37.9	28.2	29.2	38.9	24.7	26.3	30.1	32.4
Future Baseline with Project		1	0	288	25	75	0	0	1.8%	0.7%	43.4	224	37	28	5	2	0	0	0	0	59.4	71.1	78.7	-1.8	40.9	35.7	39.4	43.9	37.9	28.2	29.2	38.9	24.7	26.3	30.1	32.4
Future Baseline plus Cumulative		1	0	288	25	75	0	0	1.8%	0.7%	43.4	224	37	28	5	2	0	0	0	0	59.4	71.1	78.7	-1.8	40.9	35.7	39.4	43.9	37.9	28.2	29.2	38.9	24.7	26.3	30.1	32.4
Future Baseline plus Cumulative with Project		1	0	288	25	75	0	0	1.8%	0.7%	43.4	224	37	28	5	2	0	0	0	0	59.4	71.1	78.7	-1.8	40.9	35.7	39.4	43.9	37.9	28.2	29.2	38.9	24.7	26.3	30.1	32.4

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as aspalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

rev. (Date)

Weekday AM Peak Hour Volumes

Intersection: 12
Azusa Canyon Road (NS)/Nubia St (EW)

Azusa Canyon Road

Southbound

	right	through	left
Existing	17	149	5
Existing plus Pro	17	150	58
Future Baseline	17	152	5
Future Baseline	17	153	58
Future Baseline	17	178	5
Future Baseline	17	181	58

Eastbound

	left	through	right
Existing	21	0	54
Existing plus Pro	21	0	54
Future Baseline	21	0	55
Future Baseline	21	0	55
Future Baseline	21	0	55
Future Baseline	21	0	55

Nubia St

N
W E
S

Westbound

	right	through	left
Existing	2	0	2
Existing plus Pro	8	0	2
Future Baseline	2	0	2
Future Baseline	8	0	2
Future Baseline	2	0	2
Future Baseline	80	0	2

Northbound

	left	through	right
Existing	62	808	23
Existing plus Pro	62	816	13
Future Baseline	63	824	23
Future Baseline	63	832	13
Future Baseline	63	867	23
Future Baseline	63	881	13

ADT

Road	Azusa Canyon Road		Nubia St	
Leg	North of	South of	East of	West of
Cross Street	Nubia St		Azusa Canyon Road	
Existing	8,016.0	8,784.0	256.0	1,232.0
Existing plus Pro	8,560.0	8,776.0	648.0	1,232.0
Future Baseline	8,168.0	8,952.0	256.0	1,248.0
Future Baseline	8,712.0	8,944.0	648.0	1,248.0
Future Baseline	8,720.0	9,504.0	256.0	1,248.0
Future Baseline	9,904.0	9,560.0	1,224.0	1,248.0

2

NOISE LEVEL CONTOURS - Existing Plus Project Weekday Off-Site ADT Volumes

ROADWAY NAME / Segment	Land Use	Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor (1)	Barrier Attn. dB(A)	Vehicle Mix: Medium Trucks	Vehicle Mix: Heavy Trucks	dB(A) CNEL	Traffic Volumes: Day	Eve	Night	MTd	HTd	MTe	HTe	MTn	HTn	Ref. Energy Levels: A	MT	HT	Dist Adj	Ld: A	MT	HT	Total	Le: A	MT	HT	Total	Ln: A	MT	HT	Total
Azusa Canyon n/o Nubia St																																				
Existing		4	15	8,016	30	75	0	0	1.8%	0.7%	59.7	####	####	770	126	50	7	2	11	5	62.5	73.1	80.3	-1.6	57.9	51.7	54.8	60.3	54.9	44.1	44.6	55.6	41.7	42.2	45.6	48.3
Existing plus Project		4	15	8,560	30	75	0	0	1.8%	0.7%	60.0	####	####	822	135	53	8	2	12	5	62.5	73.1	80.3	-1.6	58.2	52.0	55.1	60.6	55.2	44.4	44.9	55.9	42.0	42.5	45.9	48.6
Future Baseline		4	15	8,168	30	75	0	0	1.8%	0.7%	59.8	####	####	784	129	51	7	2	11	5	62.5	73.1	80.3	-1.6	58.0	51.8	54.9	60.4	55.0	44.2	44.7	55.7	41.8	42.3	45.7	48.4
Future Baseline with Project		4	15	8,712	30	75	0	0	1.8%	0.7%	60.1	####	####	836	137	54	8	2	12	5	62.5	73.1	80.3	-1.6	58.3	52.0	55.2	60.6	55.3	44.5	45.0	56.0	42.1	42.6	45.9	48.7
Future Baseline plus Cumulative		4	15	8,720	30	75	0	0	1.8%	0.7%	60.1	####	####	837	137	54	8	2	12	5	62.5	73.1	80.3	-1.6	58.3	52.1	55.2	60.6	55.3	44.5	45.0	56.0	42.1	42.6	45.9	48.7
Future Baseline plus Cumulative with Project		4	15	9,904	30	75	0	0	1.8%	0.7%	60.6	####	####	951	156	62	9	2	13	6	62.5	73.1	80.3	-1.6	58.8	52.6	55.7	61.2	55.8	45.0	45.6	56.5	42.6	43.1	46.5	49.2
Azusa Canyon s/o Nubia St																																				
Existing		4	15	8,784	30	75	0	0	1.8%	0.7%	60.1	####	####	843	138	55	8	2	12	5	62.5	73.1	80.3	-1.6	58.3	52.1	55.2	60.7	55.3	44.5	45.0	56.0	42.1	42.6	46.0	48.7
Existing plus Project		4	15	8,776	30	75	0	0	1.8%	0.7%	60.1	####	####	842	138	55	8	2	12	5	62.5	73.1	80.3	-1.6	58.3	52.1	55.2	60.7	55.3	44.5	45.0	56.0	42.1	42.6	46.0	48.7
Future Baseline		4	15	8,952	30	75	0	0	1.8%	0.7%	60.2	####	####	859	141	56	8	2	12	5	62.5	73.1	80.3	-1.6	58.4	52.2	55.3	60.8	55.4	44.6	45.1	56.1	42.2	42.7	46.1	48.8
Future Baseline with Project		4	15	8,944	30	75	0	0	1.8%	0.7%	60.2	####	####	859	141	56	8	2	12	5	62.5	73.1	80.3	-1.6	58.4	52.2	55.3	60.8	55.4	44.6	45.1	56.1	42.2	42.7	46.1	48.8
Future Baseline plus Cumulative		4	15	9,504	30	75	0	0	1.8%	0.7%	60.4	####	####	912	150	59	9	2	13	5	62.5	73.1	80.3	-1.6	58.6	52.4	55.6	61.0	55.7	44.8	45.4	56.4	42.5	43.0	46.3	49.0
Future Baseline plus Cumulative with Project		4	15	9,560	30	75	0	0	1.8%	0.7%	60.5	####	####	918	150	60	9	2	13	5	62.5	73.1	80.3	-1.6	58.7	52.4	55.6	61.0	55.7	44.9	45.4	56.4	42.5	43.0	46.3	49.1
Nubia St e/o Azusa Canyon																																				
Existing		2	0	256	15	75	0	0	1.8%	0.7%	39.2	199	33	25	4	2	0	0	0	0	50.8	65.4	74.5	-1.8	34.0	31.8	36.8	39.5	31.0	24.2	26.7	33.0	17.8	22.3	27.6	29.1
Existing plus Project		2	0	648	15	75	0	0	1.8%	0.7%	43.2	503	82	62	10	4	1	0	1	0	50.8	65.4	74.5	-1.8	38.0	35.8	40.9	43.5	35.1	28.2	30.7	37.0	21.9	26.4	31.6	33.1
Future Baseline		2	0	256	15	75	0	0	1.8%	0.7%	39.2	199	33	25	4	2	0	0	0	0	50.8	65.4	74.5	-1.8	34.0	31.8	36.8	39.5	31.0	24.2	26.7	33.0	17.8	22.3	27.6	29.1
Future Baseline with Project		2	0	648	15	75	0	0	1.8%	0.7%	43.2	503	82	62	10	4	1	0	1	0	50.8	65.4	74.5	-1.8	38.0	35.8	40.9	43.5	35.1	28.2	30.7	37.0	21.9	26.4	31.6	33.1
Future Baseline plus Cumulative		2	0	256	15	75	0	0	1.8%	0.7%	39.2	199	33	25	4	2	0	0	0	0	50.8	65.4	74.5	-1.8	34.0	31.8	36.8	39.5	31.0	24.2	26.7	33.0	17.8	22.3	27.6	29.1
Future Baseline plus Cumulative with Project		2	0	1,224	15	75	0	0	1.8%	0.7%	46.0	951	155	118	19	8	1	0	2	1	50.8	65.4	74.5	-1.8	40.8	38.6	43.6	46.3	37.8	31.0	33.5	39.8	24.6	29.1	34.4	35.9
Nubia St w/o Azusa Canyon																																				
Existing		1	0	1,232	25	75	0	0	1.8%	0.7%	49.7	957	156	118	19	8	1	0	2	1	59.4	71.1	78.7	-1.8	47.2	42.0	45.7	50.2	44.2	34.5	35.5	45.2	31.0	32.6	36.4	38.8
Existing plus Project		1	0	1,232	25	75	0	0	1.8%	0.7%	49.7	957	156	118	19	8	1	0	2	1	59.4	71.1	78.7	-1.8	47.2	42.0	45.7	50.2	44.2	34.5	35.5	45.2	31.0	32.6	36.4	38.8
Future Baseline		1	0	1,248	25	75	0	0	1.8%	0.7%	49.8	970	158	120	20	8	1	0	2	1	59.4	71.1	78.7	-1.8	47.3	42.1	45.7	50.3	44.3	34.5	35.6	45.2	31.1	32.7	36.5	38.8
Future Baseline with Project		1	0	1,248	25	75	0	0	1.8%	0.7%	49.8	970	158	120	20	8	1	0	2	1	59.4	71.1	78.7	-1.8	47.3	42.1	45.7	50.3	44.3	34.5	35.6	45.2	31.1	32.7	36.5	38.8
Future Baseline plus Cumulative		1	0	1,248	25	75	0	0	1.8%	0.7%	49.8	970	158	120	20	8	1	0	2	1	59.4	71.1	78.7	-1.8	47.3	42.1	45.7	50.3	44.3	34.5	35.6	45.2	31.1	32.7	36.5	38.8
Future Baseline plus Cumulative with Project		1	0	1,248	25	75	0	0	1.8%	0.7%	49.8	970	158	120	20	8	1	0	2	1	59.4	71.1	78.7	-1.8	47.3	42.1	45.7	50.3	44.3	34.5	35.6	45.2	31.1	32.7	36.5	38.8

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as aspalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

rev. (Date)

Weekday PM Peak Hour Volumes

Intersection: 12
Azusa Canyon Road (NS)/Nubia St (EW)

Azusa Canyon Road

Southbound

	right	through	left
Existing	26	462	0
Existing plus Pro	26	467	0
Future Baseline	27	471	0
Future Baseline	27	476	0
Future Baseline	27	522	0
Future Baseline	27	527	0

Eastbound

Nubia St

	left	through	right
Existing	51	0	99
Existing plus Pro	51	0	99
Future Baseline	52	0	101
Future Baseline	52	0	101
Future Baseline	52	0	101
Future Baseline	52	0	101

N
W E
S

Westbound

	right	through	left
Existing	0	0	0
Existing plus Pro	37	0	8
Future Baseline	0	0	0
Future Baseline	37	0	8
Future Baseline	0	0	0
Future Baseline	37	0	8

Northbound

	left	through	right
Existing	42	323	0
Existing plus Pro	42	323	0
Future Baseline	43	329	0
Future Baseline	43	329	0
Future Baseline	43	364	0
Future Baseline	43	364	0

ADT

Road	Azusa Canyon Road		Nubia St	
Leg	North of	South of	East of	West of
Cross Street	Nubia St		Azusa Canyon Road	
Existing	6,896.0	7,408.0	0.0	1,744.0
Existing plus Pro	7,232.0	7,512.0	360.0	1,744.0
Future Baseline	7,032.0	7,552.0	0.0	1,784.0
Future Baseline	7,368.0	7,656.0	360.0	1,784.0
Future Baseline	7,720.0	8,240.0	0.0	1,784.0
Future Baseline	8,056.0	8,344.0	360.0	1,784.0

2

NOISE LEVEL CONTOURS - Existing Plus Project Weekday Off-Site ADT Volumes

ROADWAY NAME / Segment	Land Use	Lanes	Median Width	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor	Alpha Factor (1)	Barrier Attn. dB(A)	Vehicle Mix: Medium Trucks	Vehicle Mix: Heavy Trucks	dB(A) CNEL	Traffic Volumes: Day	Eve	Night	MTd	HTd	MTe	HTe	MTn	HTn	Ref. Energy Levels: A	MT	HT	Dist Adj	Ld: A	MT	HT	Total	Le: A	MT	HT	Total	Ln: A	MT	HT	Total
Azusa Canyon n/o Nubia St																																				
Existing		2	0	6,896	40	75	0	0	1.8%	0.7%	61.2	####	876	662	109	43	6	1	9	4	67.4	76.3	81.2	-1.8	60.6	52.7	53.6	61.9	57.6	45.1	43.4	58.0	44.4	43.3	44.3	48.8
Existing plus Project		2	0	7,232	40	75	0	0	1.8%	0.7%	61.4	####	918	694	114	45	7	1	10	4	67.4	76.3	81.2	-1.8	60.8	52.9	53.8	62.1	57.8	45.3	43.6	58.2	44.6	43.5	44.5	49.0
Future Baseline		2	0	7,032	40	75	0	0	1.8%	0.7%	61.3	####	893	675	111	44	6	1	10	4	67.4	76.3	81.2	-1.8	60.7	52.8	53.6	62.0	57.7	45.2	43.5	58.1	44.5	43.4	44.4	48.9
Future Baseline with Project		2	0	7,368	40	75	0	0	1.8%	0.7%	61.5	####	936	707	116	46	7	1	10	4	67.4	76.3	81.2	-1.8	60.9	53.0	53.8	62.2	57.9	45.4	43.7	58.3	44.7	43.6	44.6	49.1
Future Baseline plus Cumulative		2	0	7,720	40	75	0	0	1.8%	0.7%	61.7	####	980	741	121	48	7	2	10	4	67.4	76.3	81.2	-1.8	61.1	53.2	54.0	62.4	58.1	45.6	43.9	58.5	44.9	43.8	44.8	49.3
Future Baseline plus Cumulative with Project		2	0	8,056	40	75	0	0	1.8%	0.7%	61.9	####	####	773	127	50	7	2	11	5	67.4	76.3	81.2	-1.8	61.3	53.4	54.2	62.6	58.3	45.8	44.1	58.7	45.1	43.9	45.0	49.5
Azusa Canyon s/o Nubia St																																				
Existing		4	15	7,408	30	75	0	0	1.8%	0.7%	59.3	####	941	711	117	46	7	1	10	4	62.5	73.1	80.3	-1.6	57.6	51.3	54.5	59.9	54.6	43.8	44.3	55.3	41.4	41.9	45.2	48.0
Existing plus Project		4	15	7,512	30	75	0	0	1.8%	0.7%	59.4	####	954	721	118	47	7	1	10	4	62.5	73.1	80.3	-1.6	57.6	51.4	54.5	60.0	54.6	43.8	44.4	55.3	41.4	41.9	45.3	48.0
Future Baseline		4	15	7,552	30	75	0	0	1.8%	0.7%	59.4	####	959	725	119	47	7	2	10	4	62.5	73.1	80.3	-1.6	57.6	51.4	54.6	60.0	54.7	43.8	44.4	55.4	41.5	42.0	45.3	48.0
Future Baseline with Project		4	15	7,656	30	75	0	0	1.8%	0.7%	59.5	####	972	735	120	48	7	2	10	4	62.5	73.1	80.3	-1.6	57.7	51.5	54.6	60.1	54.7	43.9	44.4	55.4	41.5	42.0	45.4	48.1
Future Baseline plus Cumulative		4	15	8,240	30	75	0	0	1.8%	0.7%	59.8	####	####	791	130	51	7	2	11	5	62.5	73.1	80.3	-1.6	58.0	51.8	54.9	60.4	55.0	44.2	44.8	55.7	41.8	42.3	45.7	48.4
Future Baseline plus Cumulative with Project		4	15	8,344	30	75	0	0	1.8%	0.7%	59.9	####	####	801	131	52	8	2	11	5	62.5	73.1	80.3	-1.6	58.1	51.9	55.0	60.5	55.1	44.3	44.8	55.8	41.9	42.4	45.8	48.5
Nubia St e/o Azusa Canyon																																				
Existing		2	0	0	15	75	0	0	1.8%	0.7%	#NUM!	0	0	0	0	0	0	0	0	0	50.8	65.4	74.5	-1.8	####	####	####	####	####	####	####	####	####	####	####	####
Existing plus Project		2	0	360	15	75	0	0	1.8%	0.7%	40.6	280	46	35	6	2	0	0	0	0	50.8	65.4	74.5	-1.8	35.5	33.3	38.3	40.9	32.5	25.7	28.1	34.5	19.3	23.8	29.1	30.5
Future Baseline		2	0	0	15	75	0	0	1.8%	0.7%	#NUM!	0	0	0	0	0	0	0	0	0	50.8	65.4	74.5	-1.8	####	####	####	####	####	####	####	####	####	####	####	####
Future Baseline with Project		2	0	360	15	75	0	0	1.8%	0.7%	40.6	280	46	35	6	2	0	0	0	0	50.8	65.4	74.5	-1.8	35.5	33.3	38.3	40.9	32.5	25.7	28.1	34.5	19.3	23.8	29.1	30.5
Future Baseline plus Cumulative		2	0	0	15	75	0	0	1.8%	0.7%	#NUM!	0	0	0	0	0	0	0	0	0	50.8	65.4	74.5	-1.8	####	####	####	####	####	####	####	####	####	####	####	####
Future Baseline plus Cumulative with Project		2	0	360	15	75	0	0	1.8%	0.7%	40.6	280	46	35	6	2	0	0	0	0	50.8	65.4	74.5	-1.8	35.5	33.3	38.3	40.9	32.5	25.7	28.1	34.5	19.3	23.8	29.1	30.5
Nubia St w/o Azusa Canyon																																				
Existing		1	0	1,744	25	75	0	0	1.8%	0.7%	51.2	####	221	167	27	11	2	0	2	1	59.4	71.1	78.7	-1.8	48.7	43.6	47.2	51.7	45.7	36.0	37.0	46.7	32.5	34.1	38.0	40.3
Existing plus Project		1	0	1,744	25	75	0	0	1.8%	0.7%	51.2	####	221	167	27	11	2	0	2	1	59.4	71.1	78.7	-1.8	48.7	43.6	47.2	51.7	45.7	36.0	37.0	46.7	32.5	34.1	38.0	40.3
Future Baseline		1	0	1,784	25	75	0	0	1.8%	0.7%	51.3	####	227	171	28	11	2	0	2	1	59.4	71.1	78.7	-1.8	48.8	43.7	47.3	51.8	45.8	36.1	37.1	46.8	32.6	34.2	38.1	40.4
Future Baseline with Project		1	0	1,784	25	75	0	0	1.8%	0.7%	51.3	####	227	171	28	11	2	0	2	1	59.4	71.1	78.7	-1.8	48.8	43.7	47.3	51.8	45.8	36.1	37.1	46.8	32.6	34.2	38.1	40.4
Future Baseline plus Cumulative		1	0	1,784	25	75	0	0	1.8%	0.7%	51.3	####	227	171	28	11	2	0	2	1	59.4	71.1	78.7	-1.8	48.8	43.7	47.3	51.8	45.8	36.1	37.1	46.8	32.6	34.2	38.1	40.4
Future Baseline plus Cumulative with Project		1	0	1,784	25	75	0	0	1.8%	0.7%	51.3	####	227	171	28	11	2	0	2	1	59.4	71.1	78.7	-1.8	48.8	43.7	47.3	51.8	45.8	36.1	37.1	46.8	32.6	34.2	38.1	40.4

(1) Alpha Factor: Coefficient of absorption relating to the effects of the ground surface. An alpha factor of 0 indicates that the site is an acoustically "hard" site such as aspalt. An alpha factor of 0.5 indicates that the site is an acoustically "soft" site such as vegetative ground cover.

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

APPENDIX H

Traffic Impact Analysis

5010 AZUSA CANYON ROAD TRAFFIC IMPACT ANALYSIS

City of Irwindale

July 12, 2019

Traffic Engineering ● Transportation Planning ● Parking ● Noise & Vibration
Air Quality ● Global Climate Change ● Health Risk Assessment

5010 AZUSA CANYON ROAD TRAFFIC IMPACT ANALYSIS

City of Irwindale

July 12, 2019

prepared by
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18-0152

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EXECUTIVE SUMMARY

The purpose of this traffic impact analysis is to provide an assessment of traffic operations resulting from development of the proposed 5010 Azusa Canyon Road project and to identify measures necessary to mitigate potentially significant traffic impacts. This report analyzes traffic impacts for the anticipated project opening year in Year 2021.

Although this is a technical report, effort has been made to write the report clearly and concisely. A glossary is provided in Appendix A to assist the reader with terms related to transportation engineering.

PROJECT DESCRIPTION

The 10.69-acre project site is generally located west of the Azusa Canyon Road between Sandstone Street and Nubia Street in the City of Irwindale. The project site is currently developed with a telecommunications service yard to be displaced by the proposed project. The proposed project involves the construction of two warehouse buildings totaling 233,987 square feet. One building is proposed to be 184,882 square feet and the other building is proposed to be 49,105 square feet. The proposed project will maintain the two existing full access driveways at Azusa Canyon Road roughly opposite the intersections of Sandstone Street and Nubia Street. The proposed project is anticipated to be constructed and fully operational by year 2021.

EXISTING OPERATIONS

The study intersections currently operate at Levels of Service C or better during the PM peak hour for Existing conditions, with the exception of the following intersections (see Table 1):

- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2 (AM/PM Peak Hours)
- Live Oak Lane (NS) at Live Oak Avenue (EW) - #4 (AM/PM Peak Hours)
- Rivergrade Road (NS) at Live Oak Avenue (EW) - #5 (PM Peak Hour)
- Stewart Avenue (NS) at Live Oak Avenue (EW) - #6 (PM Peak Hour)
- Arrow Highway (NS) at Live Oak Avenue (EW) - #8 (PM Peak Hour)
- Maine Avenue (NS) at Arrow Highway (EW) - #9 (PM Peak Hour)
- Azusa Canyon Road (NS) at Arrow Highway (EW) - #10 (PM Peak Hour)

PROJECT TRIPS

The proposed project is forecast to result in a net increase of 1,121 additional daily Passenger Car Equivalent (PCE) trips, including 132 additional PCE trips during the AM peak hour and 131 additional PCE trips during the PM peak hour (see Table 4).

FORECAST OPERATIONS (IRWINDALE/BALDWIN PARK)

Existing Plus Project Conditions: The proposed project is forecast to result in a significant traffic impact at the following study intersections for Existing Plus Project conditions without improvements (see Table 7):

- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2 (AM/PM Peak Hours)
- Azusa Canyon Road (NS) at Arrow Highway (EW) - #10 (PM Peak Hour)
- Irwindale Avenue (NS) at Arrow Highway (EW) - #14 (AM Peak Hour)

The proposed project is forecast to result in no significant traffic impacts for Existing Plus Project conditions with implementation of the identified intersection improvements (see Table 7).

Future Baseline With Project: The proposed project is forecast to result in a significant traffic impact at the following study intersections for Future Baseline With Project conditions without improvements (see Table 10):

- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2 (AM/PM Peak Hours)
- Azusa Canyon Road (NS) at Arrow Highway (EW) - #10 (PM Peak Hour)
- Irwindale Avenue (NS) at Arrow Highway (EW) - #14 (AM Peak Hour)

The proposed project is forecast to result in no significant traffic impacts for Future Baseline With Project conditions with implementation of the identified intersection improvements (see Table 10).

Future Baseline Plus Cumulative Projects With Project: The proposed project is forecast to result in a significant traffic impact at the following study intersections for Future Baseline Plus Cumulative Projects With Project conditions without improvements (see Table 13):

- I-605 SB On-Ramp (NS) at Live Oak Avenue (EW) - #1 (AM Peak Hour)
- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2 (AM/PM Peak Hours)
- Azusa Canyon Road (NS) at Arrow Highway (EW) - #10 (PM Peak Hour)

The proposed project is forecast to result in no significant traffic impacts for Future Baseline With Project conditions with implementation of the identified intersection improvements (see Table 13).

FORECAST OPERATIONS (STATE HIGHWAY)

Existing Plus Project: The proposed project is forecast to result in a significant traffic impact at the following study intersections for Existing Plus Project conditions without improvements (see Table 14):

- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2

The proposed project is forecast to result in no significant traffic impacts for Existing Plus Project conditions with improvements (see Table 14).

Future Baseline Plus Cumulative Plus Project: The proposed project is forecast to result in a significant traffic impact at the following study intersections for Future Baseline Plus Cumulative Plus Project conditions without improvements (see Table 14):

- I-605 SB On-Ramp (SB) at Live Oak Ave (EW) - #1
- I-605 NB Off-Ramps (NS) at Live Oak Ave (EW) - #2
- I-605 SB Off-Ramp (SB) at Arrow Highway (EW) - #15

The proposed project is forecast to result in no significant traffic impacts for Future Baseline Plus Cumulative Plus Project conditions with improvements (see Table 14).

Off-Ramp Queuing Analysis: The proposed project is forecast to result in no significant traffic impacts at the State Highway study intersection off-ramps for Existing Plus Project and Future Baseline Plus Cumulative Plus Project conditions with improvements (Table 15).

PROJECT IMPROVEMENTS

The proposed project shall remove and reconstruct the existing project site driveways in accordance with applicable engineering standards to the satisfaction of the City of Irwindale Public Works Department.

Azusa Canyon Road shall be constructed/repaired at its ultimate half-section width, including landscaping and parkway improvements in conjunction with development, or as otherwise required by the City of Irwindale Public Works Department.

MITIGATION MEASURES

The following intersection improvements are recommended for Existing Plus Project and Future Baseline With Project conditions:

- **I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2**
  - Install a traffic signal.
  - Construct a second right turn lane at the northbound approach.
  - Construct a second right turn lane at the southbound approach.

- **Azusa Canyon Road (NS) at Arrow Highway (EW) - #10**
  - Restripe the eastbound approach to provide a third through lane (with shared right turns).

- **Irwindale Avenue (NS) at Arrow Highway (EW) - #14**
  - Restripe the westbound approach to provide a dedicated right turn lane

The following additional intersection improvements are recommended for Future Baseline Plus Cumulative Projects With Project conditions:

- **I-605 SB On-Ramp (NS) at Live Oak Avenue (EW) - #1**
  - Construct a second left turn lane at the westbound approach.*
    *Note: requires westbound approach widening and ramp widening to accommodate an additional receiving lane.

- **I-605 SB Off-Ramp (SB) at Arrow Highway (EW) - #15**
  - Construct a second left turn lane at the southbound approach.
    *Note: requires southbound off-ramp widening to accommodate a second left turn lane.

The proposed project is forecast to result in no significant traffic impacts for the evaluated scenarios with implementation of the identified intersection improvements.

1. INTRODUCTION

This section describes the purpose of this traffic impact analysis, project location, proposed development, and study area. Figure 1 shows the project location map and Figure 2 illustrates the project site plan.

PURPOSE AND OBJECTIVES

The purpose of this traffic impact analysis is to provide an assessment of roadway operations resulting from development of the proposed 5010 Azusa Canyon Road project and to identify measures necessary to mitigate potentially significant traffic impacts. This report analyzes traffic impacts for the anticipated project opening in Year 2021.

Although this is a technical report, effort has been made to write the report clearly and concisely. A glossary is provided in Appendix A to assist the reader with terms related to transportation engineering.

PROJECT DESCRIPTION

The 10.69-acre project site is generally located west of the Azusa Canyon Road between Sandstone Street and Nubia Street in the City of Irwindale. The project site is currently developed with a telecommunications service yard to be displaced by the proposed project. The proposed project involves the construction of two warehouse buildings totaling 233,987 square feet. One building is proposed to be 184,882 square feet and the other building is proposed to be 49,105 square feet. The proposed project will maintain the two existing full access driveways at Azusa Canyon Road roughly opposite the intersections of Sandstone Street and Nubia Street. The proposed project is anticipated to be constructed and fully operational by year 2021.

STUDY AREA

Based on the study intersections identified in the approved scoping agreement (Appendix B), the study area consists of the following study intersections within the City of Irwindale, City of Baldwin Park, and California Department of Transportation (Caltrans) jurisdictions:

Study Intersections[1]	Jurisdiction
1. I-605 SB On-Ramp (NS) at Live Oak Ave (EW)	City of Irwindale/Caltrans[2]
2. I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)	City of Irwindale/Caltrans
3. Graham Access Rd (NS) at Live Oak Ave (EW)	City of Irwindale
4. Live Oak Ln (NS) at Live Oak Ave (EW)	City of Irwindale
5. Rivergrade Rd (NS) at Live Oak Ave (EW)	Cities of Irwindale/Baldwin Park
6. Stewart Ave (NS) at Live Oak Ave (EW)	Cities of Irwindale/Baldwin Park
7. Baldwin Park Blvd (NS) at Live Oak Ave (EW)	Cities of Irwindale/Baldwin Park
8. Arrow Hwy (NS) at Live Oak Ave (EW)	City of Irwindale
9. Maine Ave (NS) at Arrow Hwy (EW)	Cities of Irwindale/Baldwin Park
10. Azusa Canyon Rd (NS) at Arrow Hwy (EW)	City of Irwindale
11. Azusa Canyon Rd (NS) at Sandstone St (EW)	Cities of Irwindale/Baldwin Park
12. Azusa Canyon Rd (NS) at Nubia St (EW)	Cities of Irwindale/Baldwin Park
13. 4th St (NS) at Arrow Hwy (EW)	City of Irwindale

[1] (NS) = north-south roadway; (EW) = east-west roadway; SB = Southbound; NB = Northbound; WB = Westbound
[2] Caltrans study intersections are also analyzed using the Highway Capacity Manual delay methodology for intersection Level of Service and off-ramp queueing analysis (see Section 8 – State Highway Analysis).

Study Intersections[1]	Jurisdiction
14. Irwindale Ave (NS) at Arrow Hwy (EW)	City of Irwindale
15. I-605 SB Off-Ramp (SB) at Arrow Highway (EW)	City of Irwindale/Caltrans
16. Irwindale Avenue (NS) at I-210 WB Off-Ramp (WB)	City of Irwindale/Caltrans

ANALYSIS SCENARIOS

The following scenarios are analyzed during typical weekday AM and PM peak hour conditions:

- Existing Conditions
- Existing Plus Project Conditions
- Future Baseline Conditions
- Future Baseline With Project Conditions
- Future Baseline Plus Cumulative Projects Conditions
- Future Baseline Plus Cumulative Projects With Project Conditions

Legend

(#) Study Intersection

Figure 1
Project Location Map

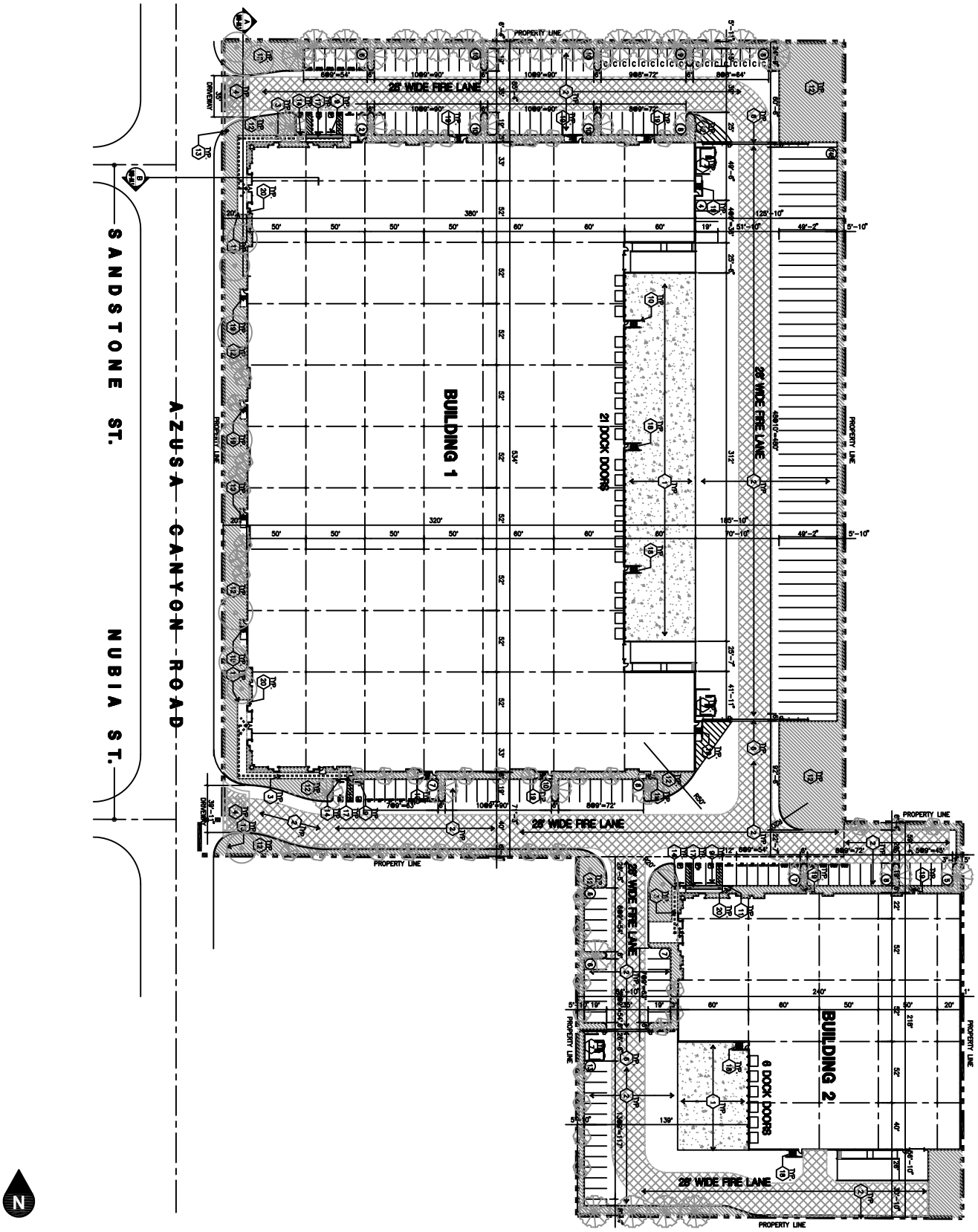


Figure 2
Site Plan

2. METHODOLOGY

This traffic impact analysis has been prepared in accordance with the guidance provided in the City of Irwindale Policy Guidelines for Traffic Impact Reports (December 2014).

INTERSECTION CAPACITY UTILIZATION METHODOLOGY

Analysis of signalized intersections is based on the Intersection Capacity Utilization methodology. The Intersection Capacity Utilization methodology compares the traffic volumes using the intersection to the capacity of the intersection. The resulting Intersection Capacity Utilization value represents that portion of the hour required to provide sufficient capacity to accommodate all intersection traffic volumes if all approaches operate at capacity. Level of Service is used to qualitatively describe the performance of a roadway facility, ranging from Level of Service A (free-flow conditions) to Level of Service F (extreme congestion and system failure). The volume to capacity ratio is then correlated to a performance measure known as Level of Service based on the following thresholds:

Level of Service	Volume to Capacity (V/C)
A	≤ 0.600
B	0.601 to 0.700
C	0.701 to 0.800
D	0.801 to 0.900
E	0.901 to 1.000
F	> 1.000

Source: Highway Capacity Manual, Special Report 209, Transportation Research Board, Washington, D.C., 1985 and Interim Materials on Highway Capacity, NCHRP Circular 212, 1982

Intersection capacity utilization analysis was performed using the Vistro (Version 6.00-00) software. In accordance with the City of Irwindale and City of Baldwin Park requirements, the Intersection Capacity Utilization analysis uses the following parameters: 1,600 vehicles per hour per lane for through and turn lanes, 2,880 vehicles per hour for dual left-turn lanes, and a total yellow clearance time of 10 percent.

INTERSECTION DELAY METHODOLOGY

The methodology used to assess the performance of unsignalized intersections is known as the intersection delay methodology based on the procedures contained in the Highway Capacity Manual (Transportation Research Board, 6th Edition). The methodology considers the traffic volume and distribution of movements, traffic composition, geometric characteristics, and signalization details to calculate the average control delay per vehicle and corresponding Level of Service. Control delay is defined as the portion of delay attributed to the intersection traffic control (such as a traffic signal or stop sign) and includes initial deceleration, queue move-up time, stopped delay, and final acceleration delay. The intersection control delay is then correlated to Level of Service based on the following thresholds:

Level of Service	Intersection Control Delay (Seconds / Vehicle)	
	Signalized Intersection	Unsignalized Intersection
A	≤ 10.0	≤ 10.0
B	> 10.0 to ≤ 20.0	> 10.0 to ≤ 15.0
C	> 20.0 to ≤ 35.0	> 15.0 to ≤ 25.0
D	> 35.0 to ≤ 55.0	> 25.0 to ≤ 35.0
E	> 55.0 to ≤ 80.0	> 35.0 to ≤ 50.0
F	> 80.0	> 50.0

Source: Transportation Research Board, Highway Capacity Manual (6th Edition).

Level of Service is used to qualitatively describe the performance of a roadway facility, ranging from Level of Service A (free-flow conditions) to Level of Service F (extreme congestion and system failure). At intersections with traffic signal or all way stop control, Level of Service is determined by the average control delay for the overall intersection. At intersections with cross street stop control (i.e., one- or two-way stop control), Level of Service is determined by the average control delay for the worst individual movement (or movements sharing a single lane).

Intersection delay analysis was performed using the Vistro (Version 6.00-00) software. Default values recommended in the Highway Capacity Manual were used for any values not specifically identified in the City guidelines.

PERFORMANCE STANDARDS

City of Irwindale. The City of Irwindale guidelines outline the following Level of Service policy statements from the City of Irwindale's General Plan:

1. The City shall ensure that traffic Levels of Service will not exceed Level of Service D at all signalized intersections on arterial and collector streets.

2. For signalized intersections on State Highway facilities, the threshold level is Level of Service E, consistent with the criteria used by the Los Angeles County Congestion Management Program for freeway mainline sections and freeway ramps.

3. The City shall ensure that all new development and redevelopment will meet adopted service levels for transportation facilities unless findings are made that achieving other specific public goals found in the General Plan outweigh this requirement.

4. The City shall focus on signalized intersections when evaluating the street system Level of Service.

5. When reviewing projects, the City shall also monitor stop-controlled intersections using LOS and the Highway Capacity Manual as a guideline, and applying the current California MUTCD signal warrants evaluation.

The above General Plan policy statements are supplemented by the following LOS criteria for un-signalized or stop-controlled intersections:

6. For unsignalized intersections, the minimum acceptable Level of Service recommended by the General Plan is Level of Service D.

7. For unsignalized intersections, a low-volume movement may have delays that yield in excess of Level of Service D, but may still be considered as having acceptable operation by considering both total delay and Level of Service (defined in terms of average control delay). An intersection traffic movement at a stop-controlled approach can be deemed to have acceptable operation under the following conditions:

    a. Total delay less than 4.0 seconds per vehicle for single lane movement with low volume;
    b. Total delay less than 5.0 seconds per vehicle for multilane movements with low volume.

City of Baldwin Park. The City of Baldwin Park General Plan Policy 1.4 establishes Level of Service D as the minimum acceptable Level of Service for intersections during the AM and PM peak hours.

THRESHOLDS OF SIGNIFICANCE

Shared study intersections between the City of Irwindale and City of Baldwin Park are analyzed in accordance with the thresholds established by both agencies.

City of Irwindale. The City of Irwindale has established the following guidelines for determination of significant impacts.

Signalized Intersections:

- When a signalized intersection operates at Level of Service D or better under existing or future baseline conditions and the addition of the project trips degrades the intersection operations to Level of Service E or F. The project mitigation should bring the facility to operate at Level of Service D at minimum.

- When a signalized intersection operates at Level of Service E or better under existing or future baseline conditions and the addition of project trips degrades the intersection operations to Level of Service F or increases the V/C by 0.02 or greater. The project mitigation should bring the facility to operate at Level of Service E at minimum.

- When a signalized intersection operates at Level of Service F under existing or future baseline conditions and the addition of more than 50 peak hour project trips contributes to the continuing operational failure at the intersection or increases the V/C by 0.02 or greater. The project mitigation should bring the facility to pre-project conditions, which typically are defined as existing conditions.

Unsignalized Intersections:

- At an unsignalized intersection, when the minor stop-controlled approach operates at Level of Service F and does not have acceptable operation in terms of total control delay, and the addition of project trips increases the total control delay to more than 4.0 seconds per vehicle for a single lane approach or 5.0 seconds per vehicle for a multilane approach. The project mitigation should bring the facility to operate at Level of Service E minimum or to bring the total control delay to less than 4.0 seconds per vehicle for a single lane approach or 5.0 seconds per vehicle for a multilane approach at a minimum.

- At an unsignalized intersection, when the minor stop-controlled approach operates at Level of Service F and does not have an acceptable operation in terms of total control delay, and the addition of more than 50 peak hour project trips contributes to the continuing operational failure at the minor approach. The project mitigation should bring the facility to pre-project or existing conditions.

City of Baldwin Park. The City of Baldwin Park has established the following guidelines for determination of significant impacts.

Signalized Intersections:

- For signalized study intersections within City of Baldwin Park jurisdiction, a project traffic impact is considered significant if the proposed project increases traffic demand by one percent (1%) or more of capacity (V/C ≥ 0.01), causing or worsening Level of Service E or F (V/C > 0.900).

Unsignalized Intersections:

- The City of Baldwin Park does not have established significant impact thresholds for unsignalized intersections. Since the unsignalized intersections within City of Baldwin Park are shared jurisdiction with City of Irwindale, the significance thresholds for the City of Irwindale were used.

MITIGATION REQUIREMENTS

If a project is forecast to cause a significant transportation impact, feasible mitigation measures shall be identified that will reduce the impact to a less than significant level based on the established thresholds. Mitigation measures can be in many forms, including the addition of lanes, traffic control modification, or demand management measures. If no feasible mitigation measures can be identified to reduce the impact to a less than significant level, the impact will remain significant and unavoidable. If the Lead Agency determines that the benefits of a proposed project outweigh any significant and unavoidable impacts, a statement of overriding considerations must be adopted for project approval.

3. EXISTING CONDITIONS

EXISTING ROADWAY SYSTEM

Figure 3 identifies the lane geometry and intersection traffic controls for Existing conditions based on a field survey of the study area. Regional access to the project area is provided by Interstate 605, Interstate 210, and Interstate 10 freeways. The north-south roadways of Baldwin Park Boulevard, Azusa Canyon Road, and Irwindale Avenue and the east-west roadways of Live Oak Avenue and Arrow Highway Boulevard provide local circulation.

PEDESTRIAN FACILITIES

Existing pedestrian facilities in the project vicinity are shown on Figure 4. As shown on Figure 4, pedestrian sidewalks are currently provided along the roadways adjacent to the project site.

BICYCLE ROUTES

The City of Irwindale Bicycle Route Map is depicted on Figure 5.

TRANSIT FACILITIES

Figure 6 shows the existing transit routes available in the project vicinity. As shown on Figure 6, Foothill Transit Routes 185/272/492 and the Baldwin Park Teal Line provide transit service along parts of Live Oak Avenue, Baldwin Park Boulevard, Arrow Highway, and Irwindale Avenue. The nearest transit stop is for Foothill Transit Route 492 located at the intersection of Azusa Canyon Road/Arrow Highway approximately 750 feet from the project site.

TRUCK ROUTES

The City of Irwindale Truck Route Map is depicted on Figure 7.

GENERAL PLAN CONTEXT

Figure 8 shows the City of Irwindale General Plan Roadway Classification map. This figure shows the nature and extent of arterial and collector highways that are needed to adequately serve the ultimate development depicted by the Land Use Element of the General Plan. The City of Irwindale standard roadway cross-sections are illustrated on Figure 9.

EXISTING INTERSECTION VOLUMES

Existing peak hour intersection volumes are based upon AM and PM peak period intersection turning movement counts obtained in November 2018 during typical weekday conditions. The AM peak period was counted between 7:00 AM and 9:00 PM and the PM peak period was counted between 4:00 PM and 6:00 PM. The actual peak hour within the peak period is the four consecutive 15 minute periods with the highest total volume when all movements are added together. Thus, the weekday PM peak hour at one intersection may be 4:45 PM to 5:45 PM if those four consecutive 15 minute periods have the highest combined volume. Intersection turning movement count worksheets are provided in Appendix C.

To provide a conservative analysis, the peak hour intersection turning movement volumes were converted into Passenger Car Equivalent (PCE) volumes in accordance with recommendations obtained from the San Bernardino County Congestion Management Program (1.5 PCE for 2-axle trucks, 2.0 PCE for 3-axle trucks, and 3.0 PCE for trucks with 4 or more axles) since the majority of the study intersections are located along

the heavily utilized truck corridor of Arrow Highway/Live Oak Avenue. All intersection turning movement volumes shown in the this report are based on PCE volumes.

Figure 10 and Figure 11 show the Existing AM and PM peak hour intersection turning movement volumes (in PCE).

EXISTING INTERSECTION LEVEL OF SERVICE

The intersection Levels of Service for Existing traffic conditions have been calculated and are shown in Table 1. Existing intersection Level of Service worksheets are provided in Appendix D.

As shown in Table 1, the study intersections currently operate within acceptable Levels of Service during the peak hours for Existing traffic conditions, with the exception of the following intersections (see Table 1):

- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2 (AM/PM Peak Hours)
- Live Oak Lane (NS) at Live Oak Avenue (EW) - #4 (AM/PM Peak Hours)
- Rivergrade Road (NS) at Live Oak Avenue (EW) - #5 (PM Peak Hour)
- Stewart Avenue (NS) at Live Oak Avenue (EW) - #6 (PM Peak Hour)
- Arrow Highway (NS) at Live Oak Avenue (EW) - #8 (PM Peak Hour)
- Maine Avenue (NS) at Arrow Highway (EW) - #9 (PM Peak Hour)
- Azusa Canyon Road (NS) at Arrow Highway (EW) - #10 (PM Peak Hour)

AVERAGE DAILY TRAFFIC VOLUMES

As a reference for other technical studies, existing and projected average daily traffic volumes are provided in Appendix E. The existing average daily traffic volumes have been factored from PM peak hour intersection turning movement volumes using a factor of 12.2 times the two-way peak hour volume at each intersection leg. The peak hour to daily factor (12.2) is based on the ratio determined from measured daily traffic volume counts at two sample locations in the project vicinity.

TRAFFIC SIGNAL WARRANT ANALYSIS

The potential need for installation of a traffic signal at existing unsignalized intersections was evaluated based on the California Manual on Uniform Traffic Control Devices ("California MUTCD", November 2014), peak hour volume warrant (Warrant 3). Part 4C – Traffic Control Signal Needs Studies of the California MUTCD contains a series of warrants, or criteria, which serve to determine whether installation of a traffic signal is justified at a particular location. The California MUTCD states that a traffic control signal should not be installed unless one or more warrants are satisfied. Application of the traffic signal warrants should be based on engineering judgement and satisfaction of one or more traffic signal warrants shall not in itself require the installation of a traffic signal. Peak hour traffic signal warrant worksheets are provided in Appendix F.

The California MUTCD peak hour traffic signal warrant is currently satisfied at the following unsignalized study intersection:

- I-605 NB Off-Ramps / Live Oak Avenue - #2

Based on scoping discussions with City of Irwindale staff, Warrants 1 through 3 (eight-hour, four-hour, and peak hour volume warrants) and Warrant 7 (crash experience warrant) were evaluated at the intersection of Azusa Canyon Road/Nubia Street (#12). The additional signal warrant worksheets for the intersection of Azusa Canyon Road/Nubia Street are provided in Appendix F.

Installation of a traffic signal at the intersection of Azusa Canyon Road/Nubia Street (#12) is not currently warranted based on the volume and crash experience criteria established in Warrants 1, 2, 3, and 7.

Table 1
Existing Intersection Levels of Service

ID	Study Intersection	Traffic Control[1]	AM Peak Hour V/C[2] or [Delay][3]	AM Peak Hour LOS[4]	PM Peak Hour V/C[2] or [Delay][3]	PM Peak Hour LOS[4]
1.	I-605 SB On-Ramp at Live Oak Ave	TS	0.567	A	0.813	D
2.	I-605 NB Off-Ramps at Live Oak Ave	CSS	[99.9]	F	[99.9]	F
3.	Graham Access Rd at Live Oak Ave	TS	0.643	B	0.666	B
4.	Live Oak Ln at Live Oak Ave	CSS	[53.9]	F	[64.0]	F
5.	Rivergrade Rd at Live Oak Ave	TS	0.644	B	1.018	F
6.	Stewart Ave at Live Oak Ave	TS	0.820	D	0.909	E
7.	Baldwin Park Blvd at Live Oak Ave	TS	0.613	B	0.836	D
8.	Arrow Hwy at Live Oak Ave	TS	0.667	B	0.990	E
9.	Maine Ave at Arrow Hwy	TS	0.755	C	0.972	E
10.	Azusa Canyon Rd at Arrow Hwy	TS	0.899	D	0.994	E
11.	Azusa Canyon Rd at Sandstone St	CSS	[13.4]	B	[14.3]	B
12.	Azusa Canyon Rd at Nubia St	CSS	[25.9]	D	[20.6]	C
13.	4th St at Arrow Hwy	TS	0.693	B	0.667	B
14.	Irwindale Ave at Arrow Hwy	TS	0.896	D	0.850	D
15.	I-605 SB Off-Ramp at Arrow Hwy	TS	0.696	B	0.514	A
16.	Irwindale Ave at I-210 WB Off-Ramp	TS	0.507	A	0.558	A

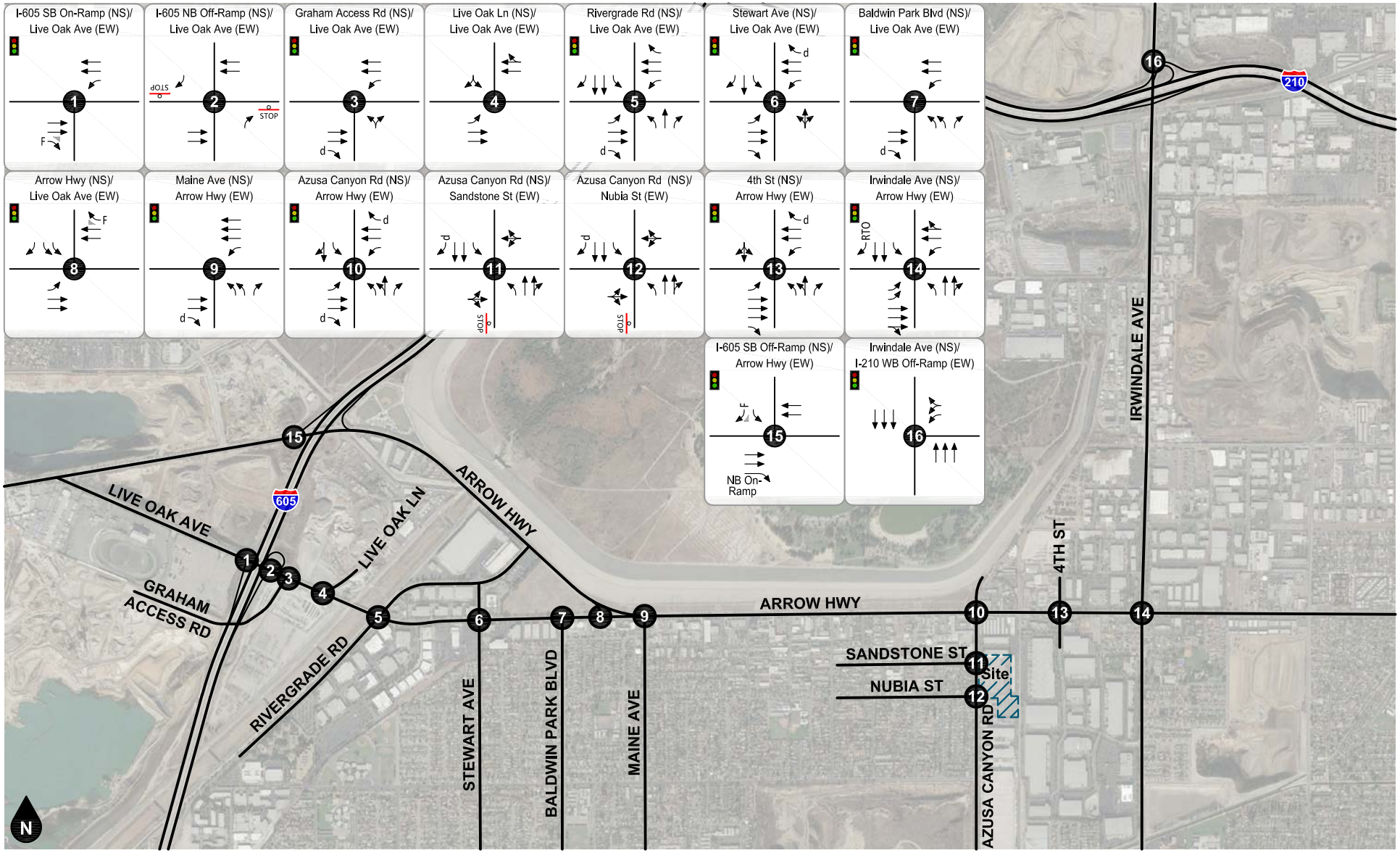
Notes:

(1) TS = Traffic Signal; CSS = Cross Street Stop

(2) V/C = Volume/Capacity

(3) Delay is shown in [seconds/vehicle] for unsignalized study intersections. For intersections with cross street stop control, Level of Service is based on average delay of the worst individual lane (or movements sharing a lane).

(4) LOS = Level of Service



Legend

(#) Study Intersection

Figure 3
Existing Lane Geometry and Intersection Traffic Controls

Legend
- Sidewalk
- Cross Walk
- B Bus Stop

Figure 4
Existing Pedestrian Facilities

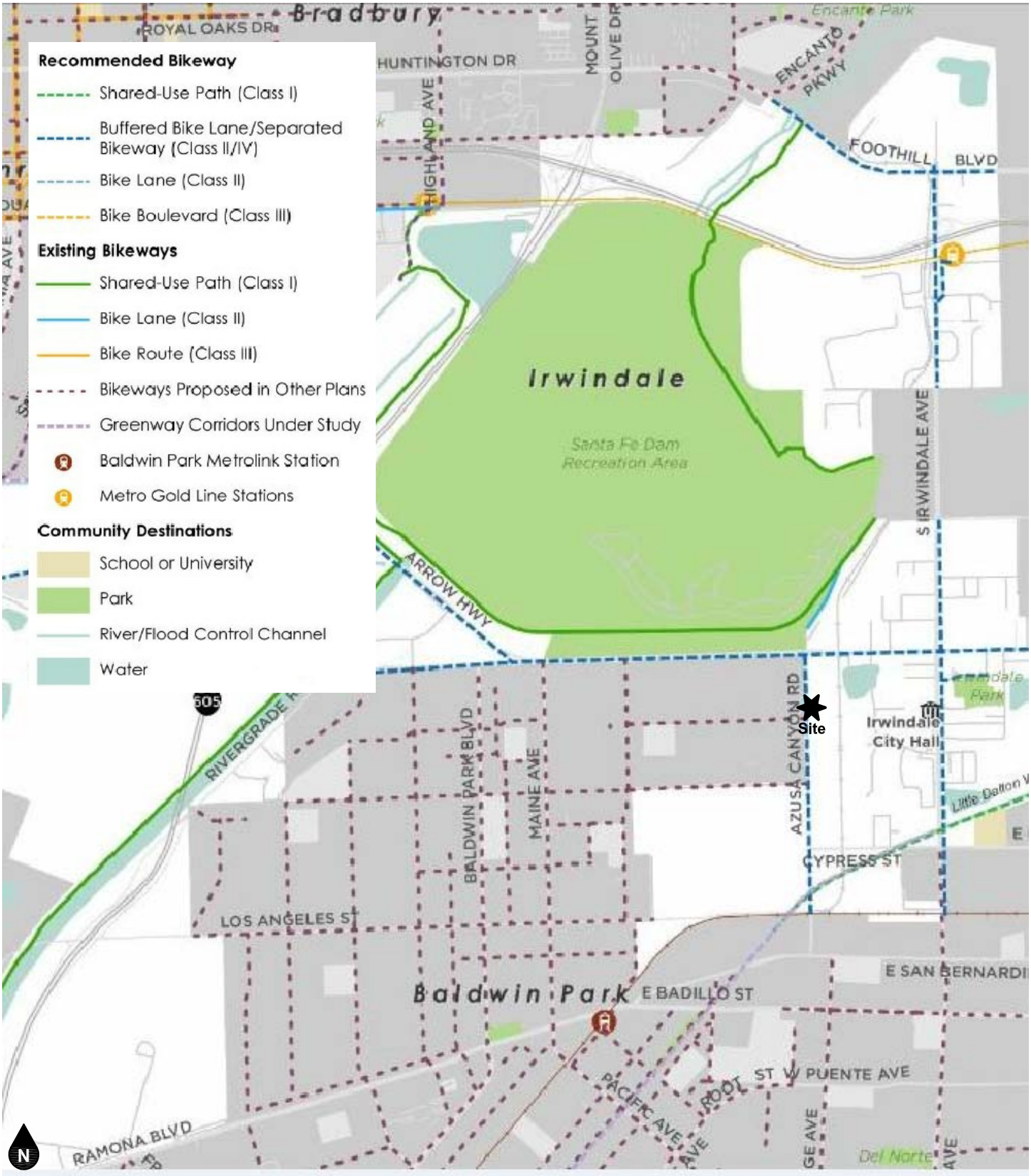


Figure 5
City of Irwindale Bicycle Route Map

Source: City of Irwindale

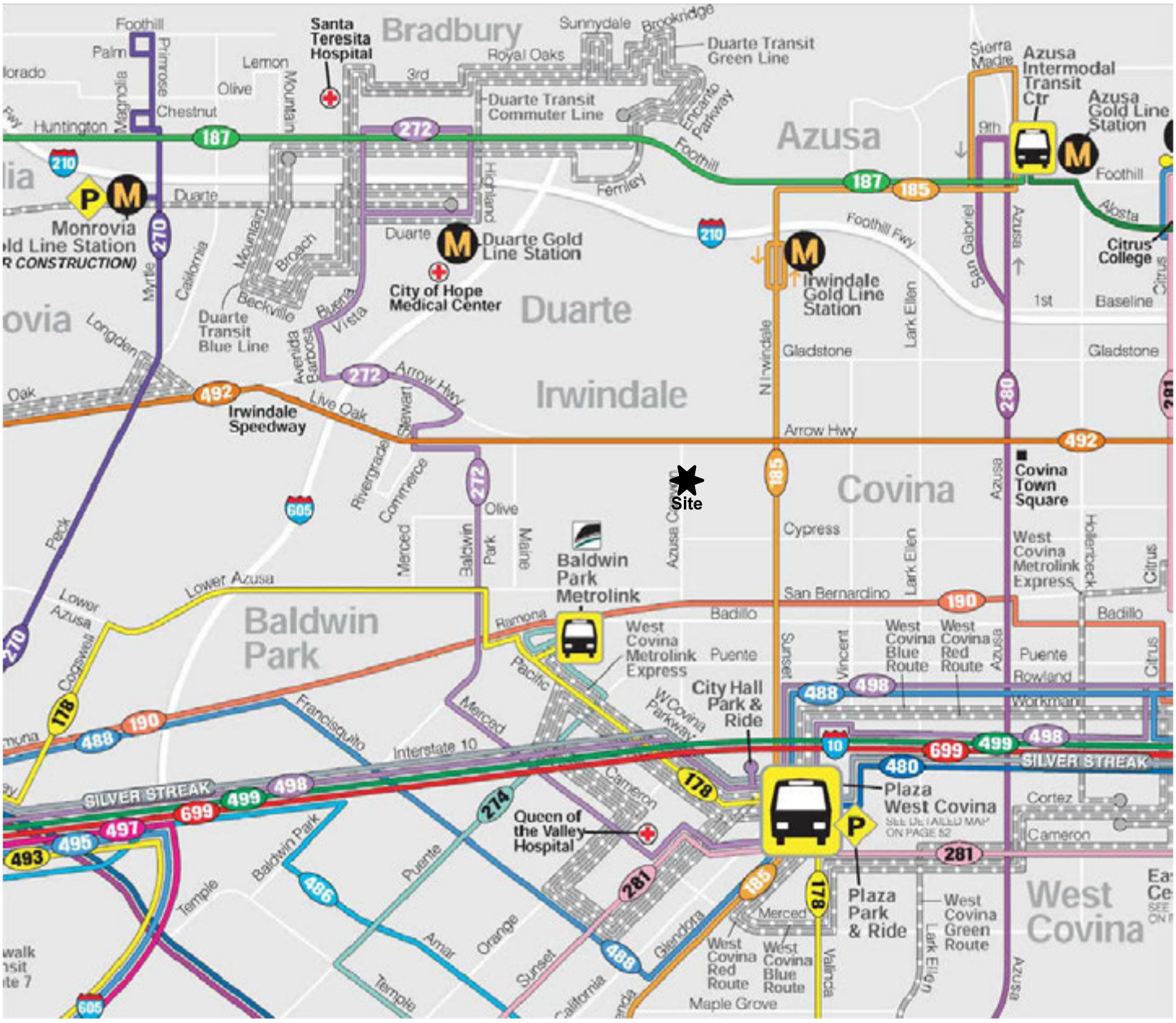


Figure 6
Transit Service Map

Source: Foothill Transit

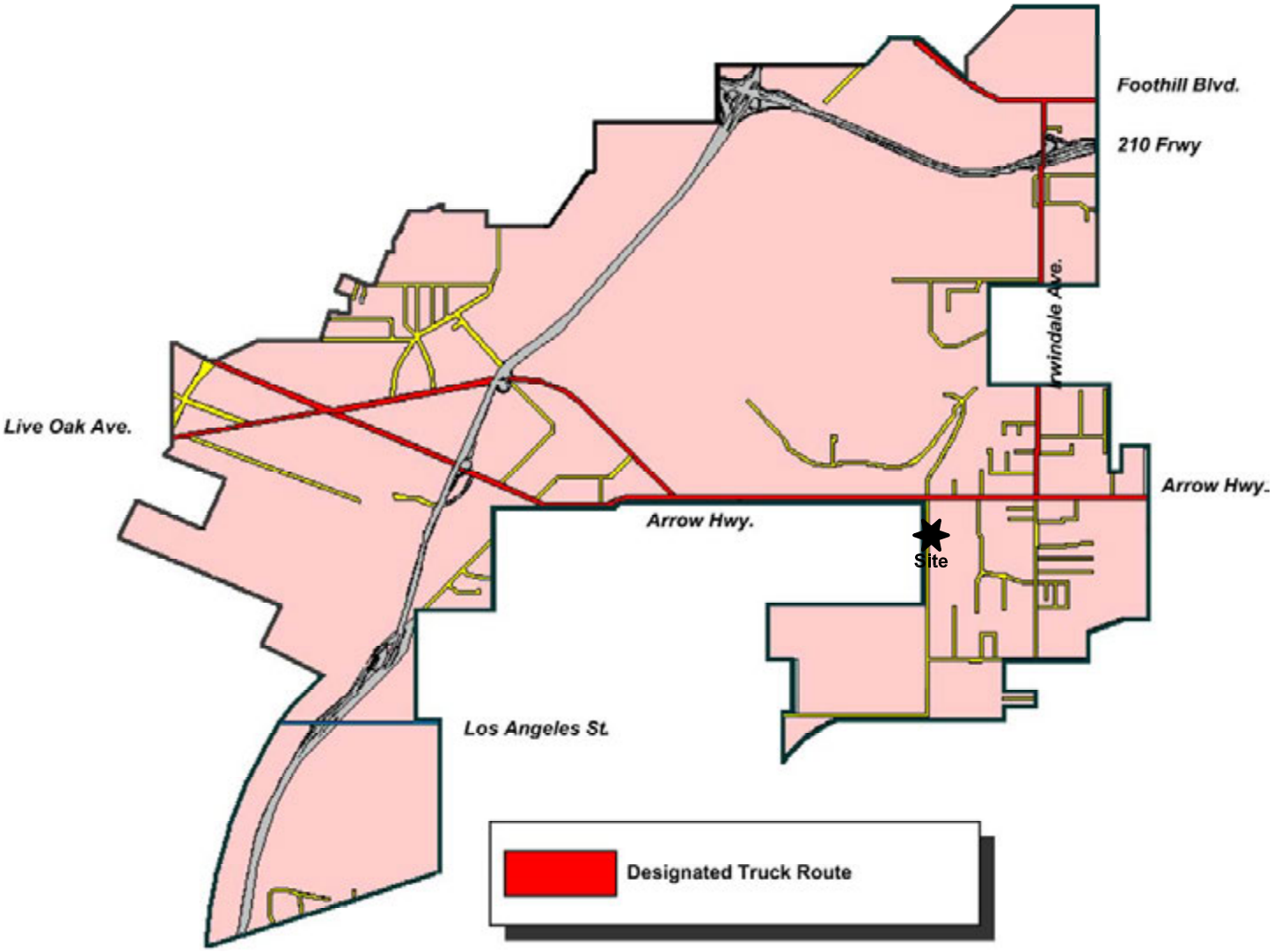


Figure 7
City of Irwindale Truck Routes

Source: City of Irwindale

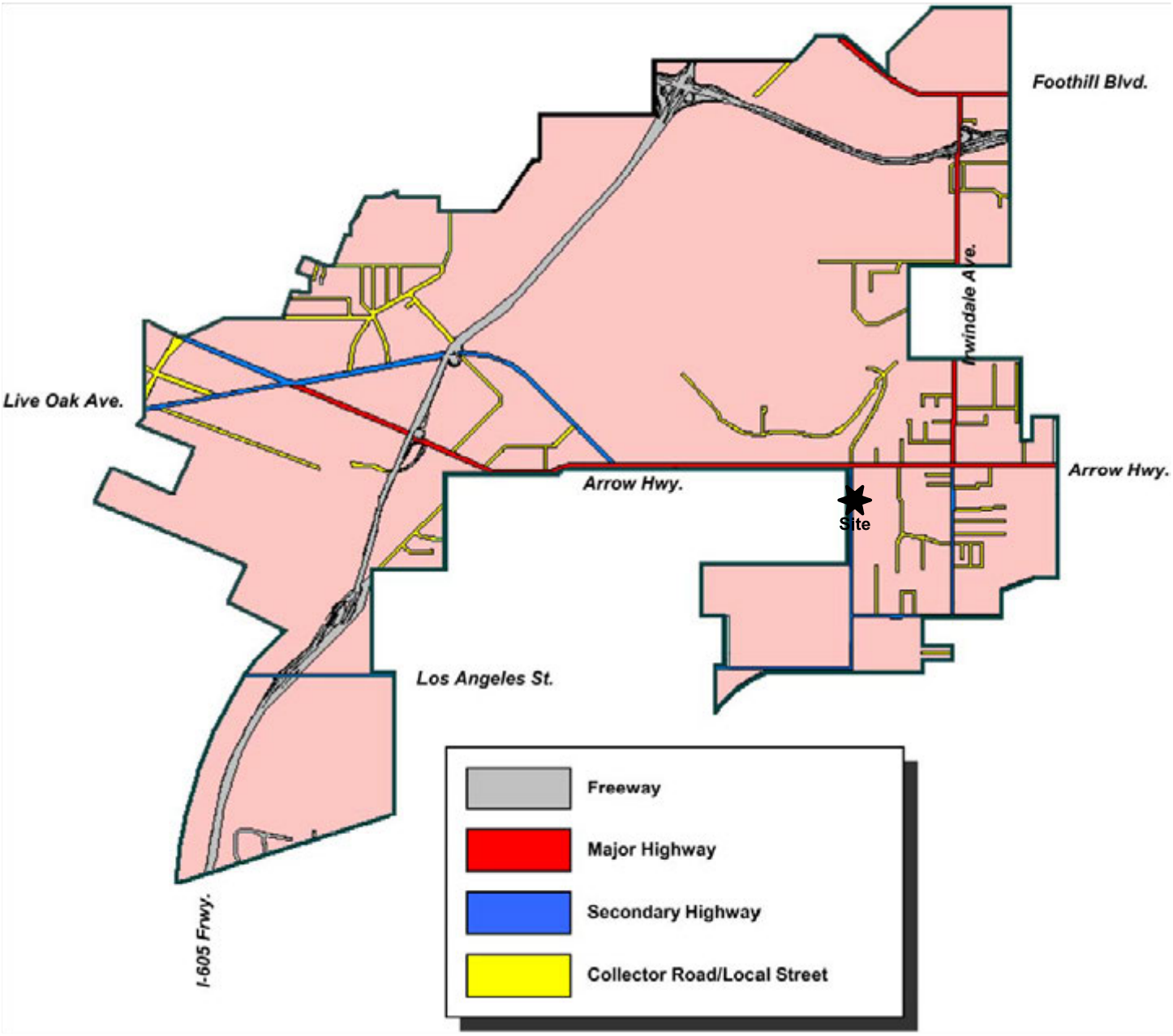


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Figure 8
City of Irwindale Roadway Classifications

Source: City of Irwindale

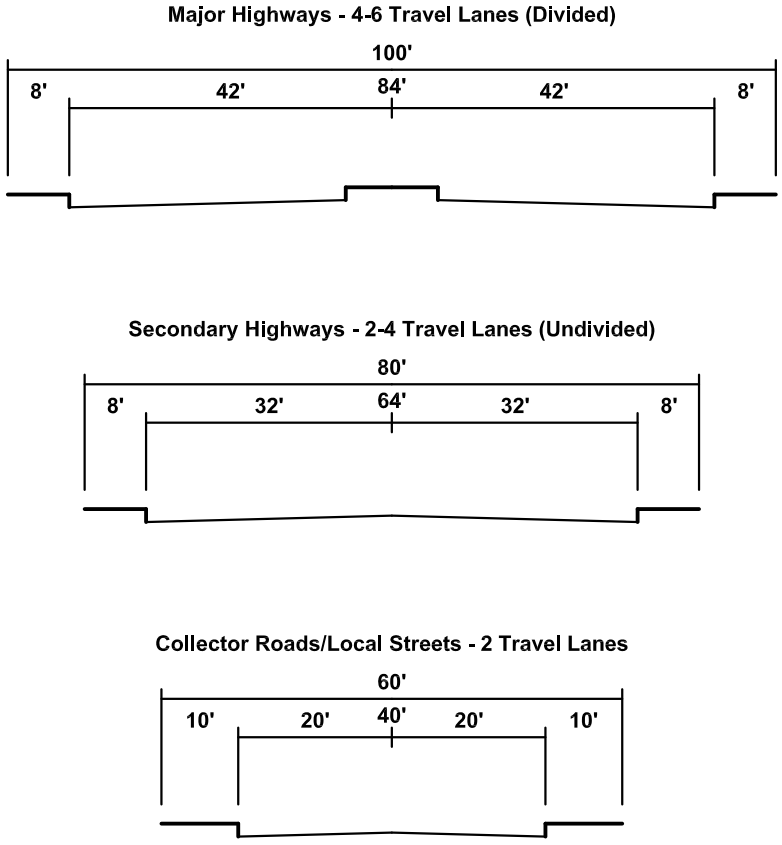
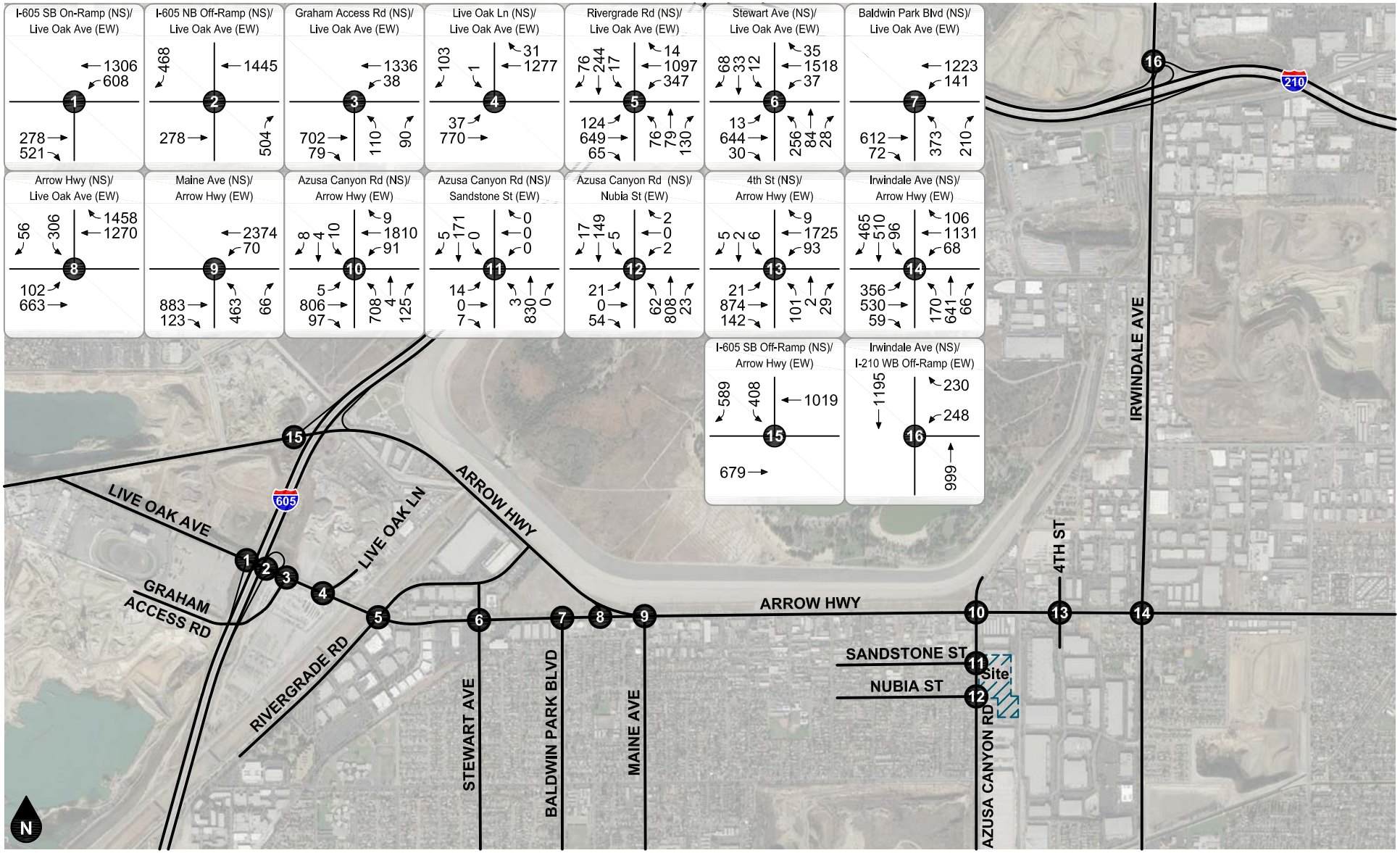


Figure 9
City of Irwindale General Plan Roadway Cross-Sections

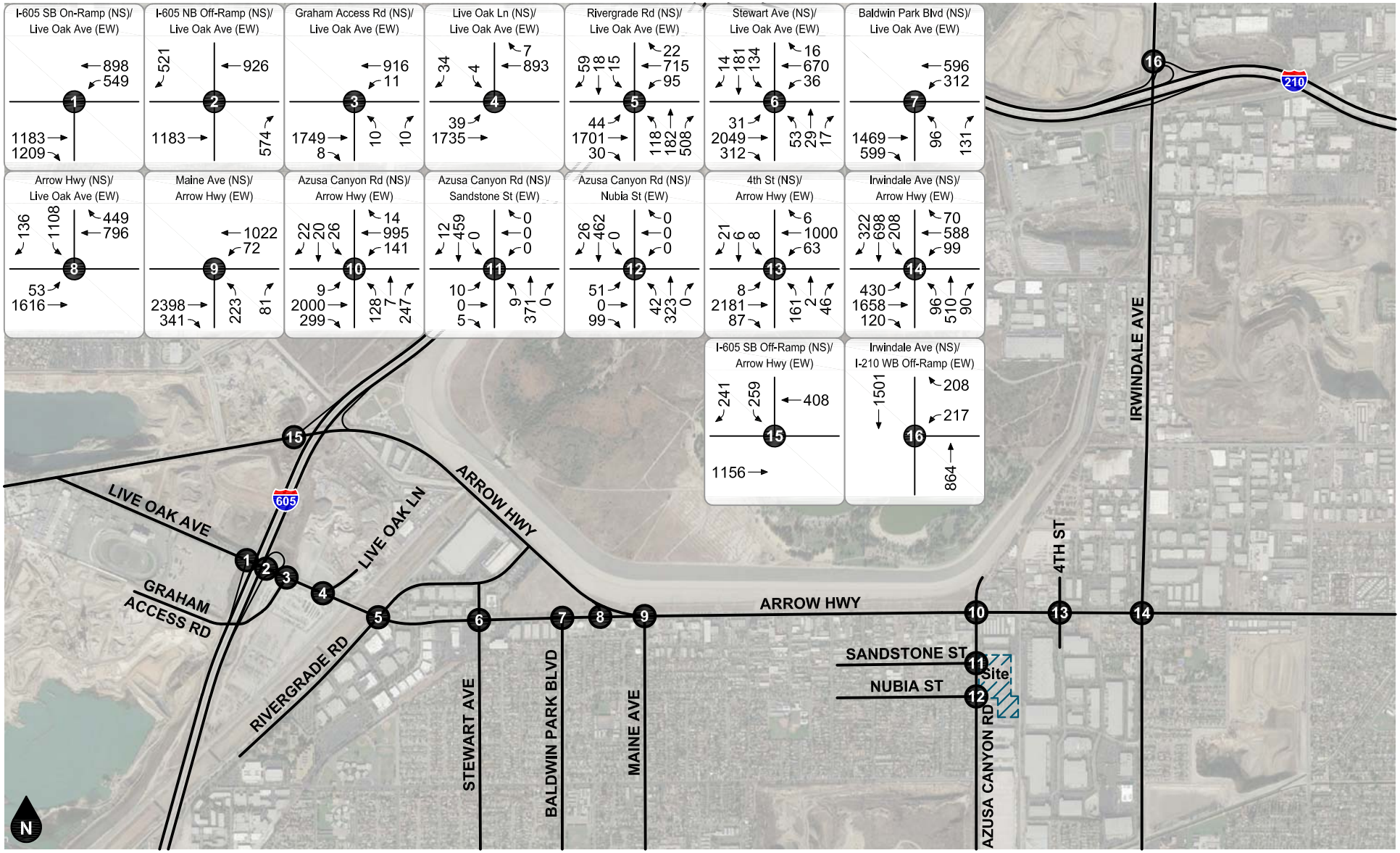
Source: City of Irwindale



Legend

(#) Study Intersection

Figure 10
Existing AM Peak Hour Intersection Turning Movement Volumes



Legend

Study Intersection

Figure 11
Existing PM Peak Hour Intersection Turning Movement Volumes

4. PROJECT FORECASTS

This section describes how project trip generation, trip distribution, and trip assignment forecasts were developed. The forecast project volumes are illustrated on figures contained in this section.

PROJECT TRIP GENERATION

As previously noted, the intersection operational analysis is based on Passenger Car Equivalent (PCE) volumes; therefore, the project trip generation forecasts have been calculated in terms of vehicle trips generated as well as PCE trips generated.

The project site is currently occupied by a telecommunications service yard. Table 2 shows the trip generation of the existing land use based on manual project site driveway counts conducted in November 2018. As shown in Table 2, the existing land use currently generates 352 daily PCE trips, including 80 PCE trips during the AM peak hour and 57 PCE trips during the evening peak hour.

Table 3 shows the project trip generation based upon trip generation rates for the General Light Industrial land use (Land Use Code 110) obtained from the Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, 2017. The project trip generation forecast is determined by multiplying the trip generation rates by the land use quantity. The project trip generation has been converted into Passenger PCE trips in accordance with the truck percentages documented in the City of Fontana Truck Trip Generation Study (August 2003) and PCE factors recommended by the County of San Bernardino Congestion Management Program.

As shown in Table 3, the proposed project is forecast to generate a total of approximately 1,473 daily PCE trips, including 212 PCE trips during the AM peak hour and 188 PCE trips during the PM peak hour.

Table 4 shows the net number of trips resulting from displacement of the existing use and development of the proposed project. The proposed project is forecast to result in a net increase of 1,121 additional daily PCE trips, including 132 additional PCE trips during the AM peak hour and 131 additional PCE trips during the PM peak hour (see Table 4).

PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

Figure 12 and Figure 13 show the forecast directional distribution patterns for the project generated car and truck trips, respectively. The project trip distribution patterns were determined in consultation with City of Irwindale staff and are based on review of existing volume data, surrounding land uses, and the local and regional roadway facilities in the project vicinity.

Peak hour intersection turning movement volumes expected from the project are depicted on Figure 14 and Figure 15.

Table 2
Existing Land Use Trip Generation

Vehicle Trips Generated[1]							
	AM Peak Hour			PM Peak Hour			
Vehicle Type	In	Out	Total	In	Out	Total	Daily
Cars	21	42	63	16	33	49	289
2-Axle Trucks	2	9	11	5	0	5	38
3-Axle Trucks	0	0	0	0	0	0	3
4+ Axle Trucks	0	0	0	0	0	0	0
Trucks Subtotal	2	9	11	5	0	5	41
TOTAL VEHICLE TRIPS GENERATED	**23**	**51**	**74**	**21**	**33**	**54**	**330**

PCE Trips Generated								
	PCE	AM Peak Hour			PM Peak Hour			
Vehicle Type	Factor[4]	In	Out	Total	In	Out	Total	Daily
Cars	1.0	21	42	63	16	33	49	289
2-Axle Trucks	1.5	3	14	17	8	0	8	57
3-Axle Trucks	2.0	0	0	0	0	0	0	6
4+ Axle Trucks	3.0	0	0	0	0	0	0	0
Trucks Subtotal		3	14	17	8	0	8	63
TOTAL PCE TRIPS GENERATED		**24**	**56**	**80**	**24**	**33**	**57**	**352**

Notes:

(1) Source: Manual driveway counts of existing service yard collected in November 2018 (see Appendix C).

(2) PCE = Passenger Car Equivalent; PCE factors recommended by San Bernardino County Congestion Management Program.

Table 3
Project Trip Generation

Land Use	Source	Units[2]	Trip Generation Rates[1]						
			AM Peak Hour			PM Peak Hour			
			In %	Out %	Total	In %	Out %	Total	Daily
General Light Industrial	ITE 110	TSF	88%	12%	0.70	13%	87%	0.63	4.96

Land Use	Quantity	Vehicle Trips Generated						
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	Daily
General Light Industrial	233.987 TSF	144	20	164	19	128	147	1,161
Vehicle Mix	Percent[3]							
Cars	78.6%	113	16	129	15	101	116	913
2-Axle Trucks	8.0%	12	2	14	2	10	12	93
3-Axle Trucks	3.9%	6	1	7	1	5	6	45
4+ Axle Trucks	9.5%	14	2	16	2	12	14	110
Trucks Subtotal	21.4%	32	5	37	5	27	32	248

Vehicle Type	PCE Factor[4]	PCE Trips Generated						
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	Daily
Cars	1.0	113	16	129	15	101	116	913
2-Axle Trucks	1.5	18	3	21	3	15	18	140
3-Axle Trucks	2.0	12	2	14	2	10	12	90
4+ Axle Trucks	3.0	42	6	48	6	36	42	330
Trucks Subtotal	-	72	11	83	11	61	72	560
TOTAL PCE TRIPS GENERATED		**185**	**27**	**212**	**26**	**162**	**188**	**1,473**

Notes:

(1) Source: ITE = Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, 2017.

(2) TSF = Thousand Square Feet

(3) City of Fontana, Truck Trip Generation Study, August 2003.

(4) PCE = Passenger Car Equivalent; PCE factors recommended by San Bernardino County Congestion Management Program.

Table 4
Net Project Trip Generation

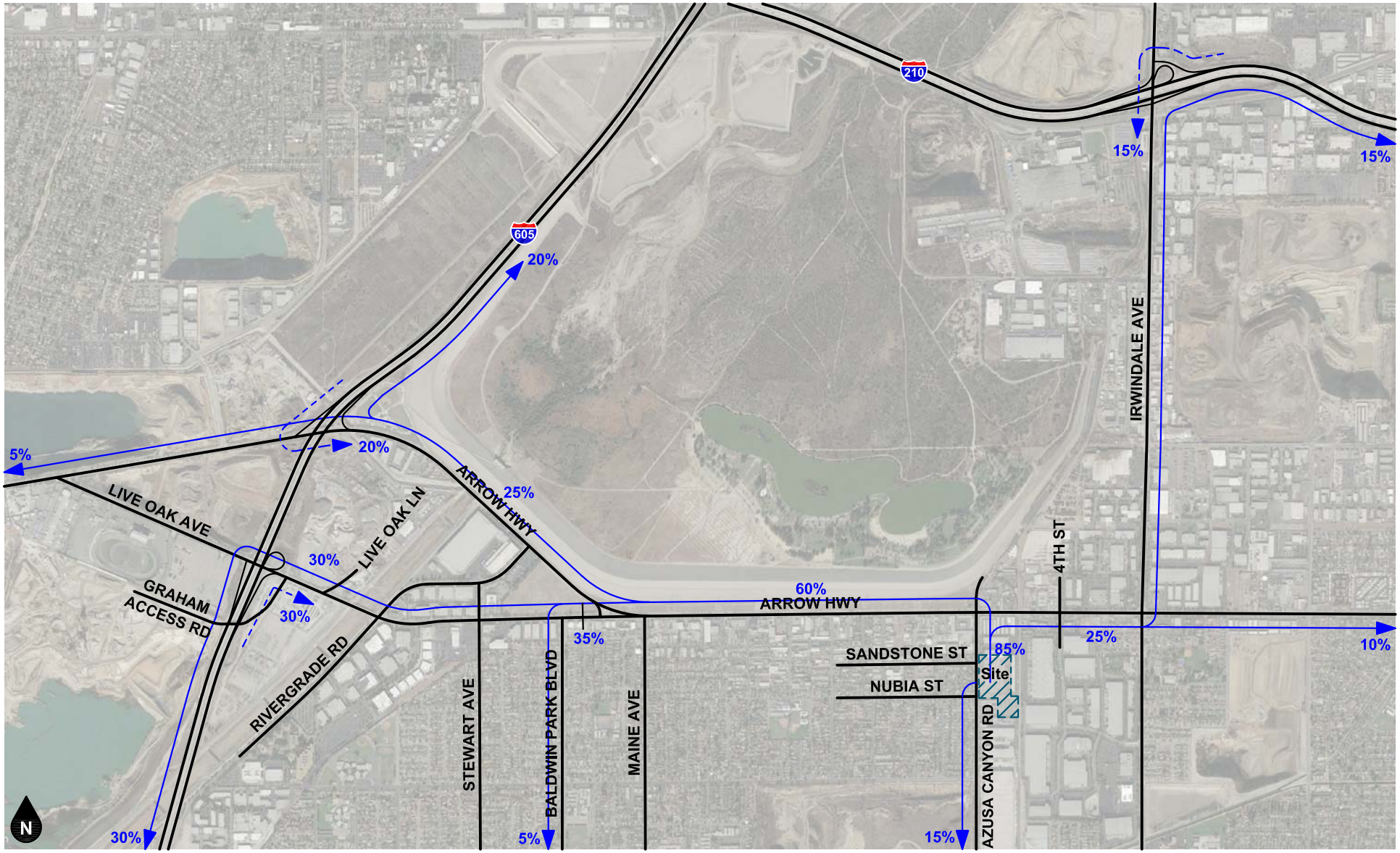
Land Use	Quantity[1]	Net Trip Generation in Vehicle Trips						
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	Daily
Existing Use to be Displaced								
Service Yard[2]	10 AC	23	51	74	21	33	54	330
Proposed Project								
General Light Industrial	233.987 TSF	144	20	164	19	128	147	1,161
NET PROJECT TRIP GENERATION (Vehicles)		**121**	**-31**	**90**	**-2**	**95**	**93**	**831**

Land Use	Quantity[1]	Net Trip Generation in PCE Trips						
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	Daily
Existing Use to be Displaced								
Service Yard (in PCE)	10 AC	24	56	80	24	33	57	352
Proposed Project								
General Light Industrial (in PCE)	233.987 TSF	185	27	212	26	162	188	1,473
NET PROJECT TRIP GENERATION (in PCE)		**161**	**-29**	**132**	**2**	**129**	**131**	**1,121**

Notes:

(1) AC = Acres; TSF = Thousand Square Feet

(2) Source: Manual driveway counts of existing service yard collected in November 2018 (see Appendix C).

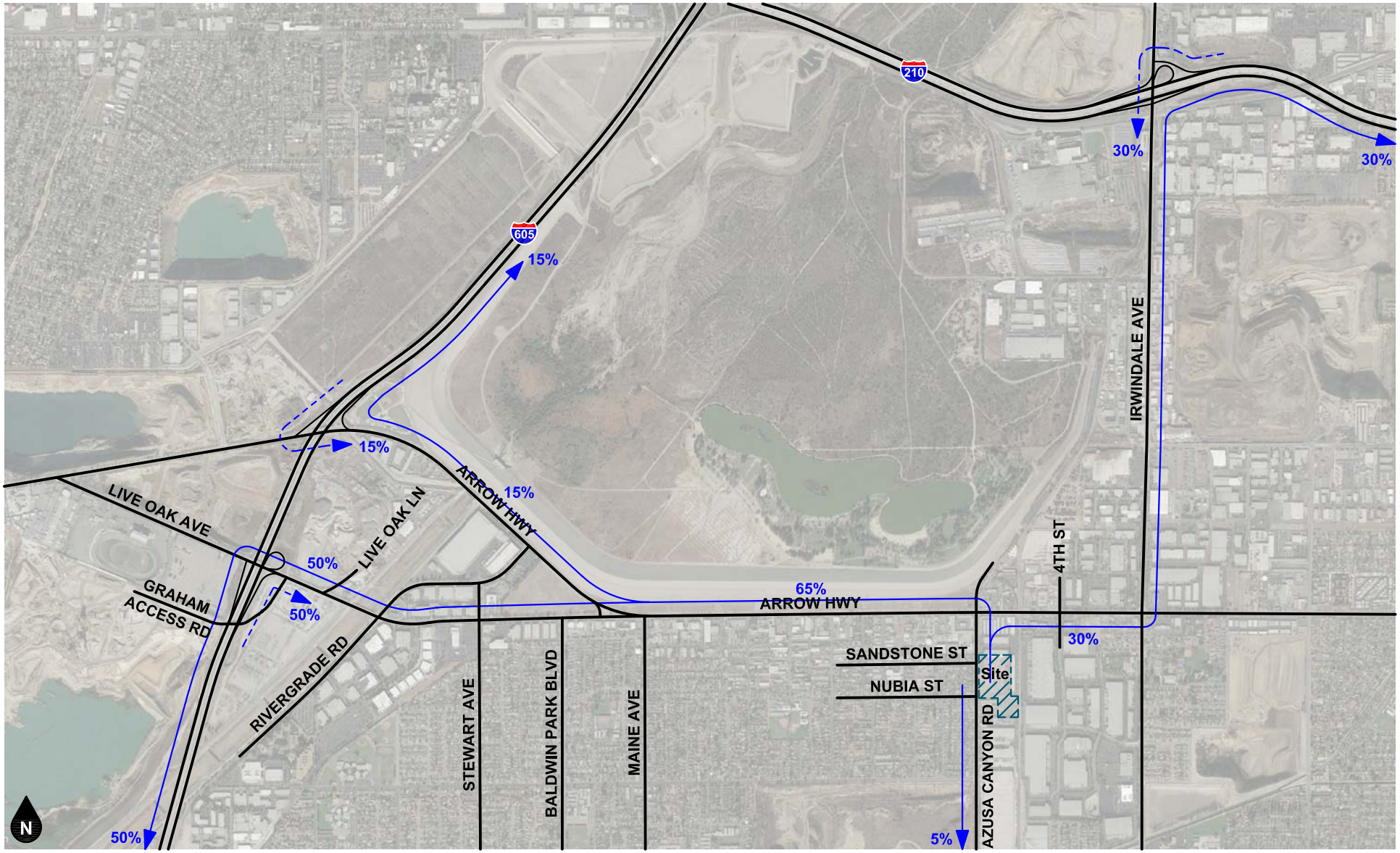


Legend

10% Percent To/From Project

10% Inbound Variation

Figure 12
Project Trip Distribution - Cars



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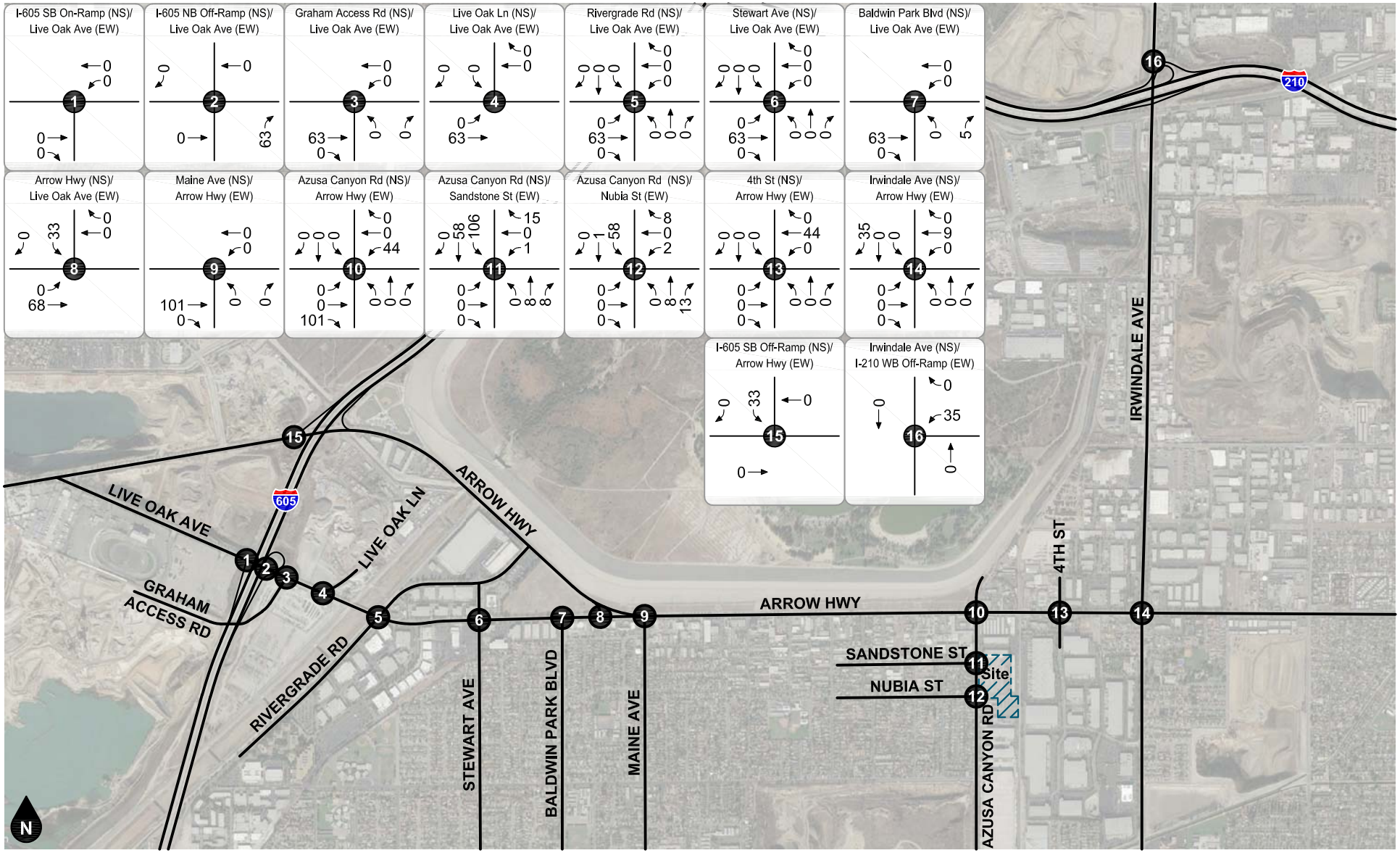
10% Percent To/From Project

10% Inbound Variation

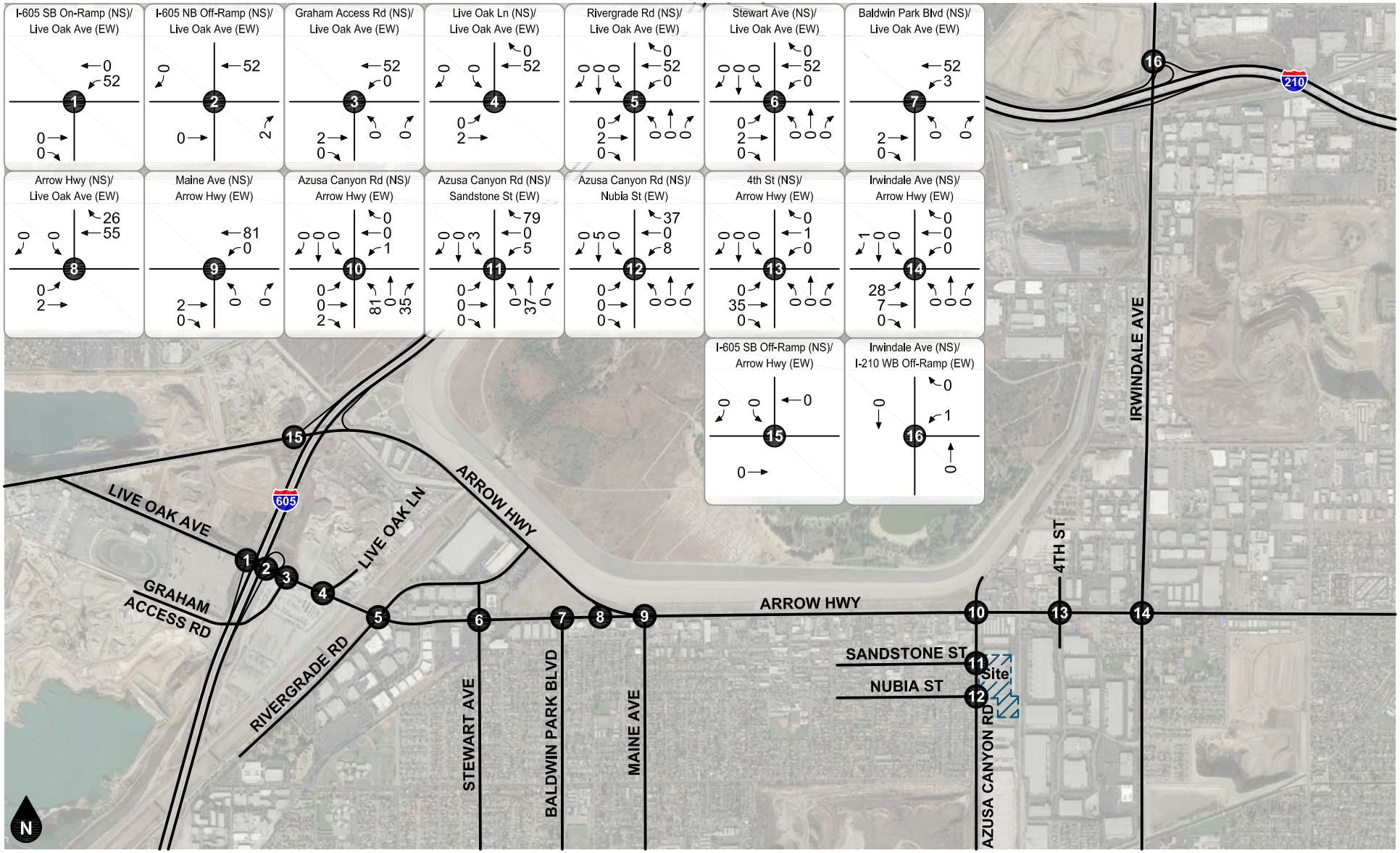
Figure 13
Project Trip Distribution - Trucks



Legend

(#) Study Intersection

Figure 14
Project AM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

Figure 15
Project PM Peak Hour Intersection Turning Movement Volumes

5. FUTURE VOLUME FORECASTS

This section describes how future volume forecasts for each analysis scenario were developed. Forecast study area volumes are illustrated on figures contained in this section. Forecast average daily traffic volumes (non PCE-adjusted) are provided in Appendix E for informational purposes.

CUMULATIVE TRIPS

Ambient Growth Rate

To account for ambient growth on roadways, existing volumes were increased by a growth rate of 0.5 percent (0.5%) per year over a three-year period for Future Baseline conditions. This equates to a total growth factor of approximately 1.02 for Opening Year conditions and is substantially more conservative than the annual growth rate of approximately 0.4 percent derived from traffic growth factors contained in the Los Angeles County 2010 Congestion Management Program (Exhibit D-1, RSA 26). The ambient growth rate was conservatively applied to all movements at the study intersections.

Other Development

To account for trips generated by future development, trips generated by pending or approved other development projects in the Cities of Irwindale, Baldwin Park, and Azusa were added to the study intersections. Table 5 shows the trip generation summary for other development projects. Figure 16 shows the other development location map. The previously discussed ambient growth is assumed to account for any additional background volume growth generated by other developments outside the project vicinity and not specifically listed in this report.

Figure 17 and Figure 18 show the forecast peak hour intersection turning movement volumes for trips generated by other developments.

ANALYSIS SCENARIO VOLUME FORECASTS

Existing Plus Project

Existing Plus Project volume forecasts were derived by adding the project generated trips to Existing volumes. Existing Plus Project peak hour intersection turning movement volumes are shown on Figure 19 and Figure 20.

Future Baseline

To develop Future Baseline volume forecasts, Existing volumes were combined with ambient growth. Future Baseline peak hour intersection turning movement volumes are shown on Figure 21 and Figure 22.

Future Baseline With Project

Future Baseline With Project volume forecasts were developed by adding project generated trips to the Future Baseline forecast. Future Baseline With Project peak hour intersection turning movement volumes are shown on Figure 23 and Figure 24.

Future Baseline Plus Cumulative Projects Without Project

Future Baseline Plus Cumulative Projects volume forecasts were developed by adding other development trips to the Future Baseline forecast. Future Baseline Plus Cumulative Projects Without Project peak hour intersection turning movement volumes are shown on Figure 25 and Figure 26.

Future Baseline Plus Cumulative Projects With Project

Future Baseline Plus Cumulative Projects With Project volume forecasts were developed by adding other development trips and project generated trips to the Future Baseline forecast. Future Baseline Plus Cumulative Projects With Project peak hour intersection turning movement volumes are shown on Figure 27 and Figure 28.

Table 5
Other Development Trip Generation

ID	Land Use	Quantity	Units[1]	Source[2]	AM Peak Hour			PM Peak Hour			Daily
					In	Out	Total	In	Out	Total	
City of Irwindale											
I1	Pilot Flying J Travel Center and Truck Sales										
	Truck Stop	20.670	TSF	ITE 950	274	274	548	249	221	470	9,416
	Pass-By (62% AM, 56% PM)[3]			[a] [b]	-170	-170	-340	-139	-124	-263	-603
	Truck Sales	30.000	TSF	ITE 840	41	15	56	29	44	73	835
I2	Panattoni Industrial - 1200 Arrow Hwy	130.366	TSF	ITE 110	81	10	91	10	72	82	647
I3	Panattoni Industrial - 16203 Arrow Hwy	85.400	TSF	ITE 130	27	7	34	7	27	34	288
I4	Ayala Industrial Building	80.000	TSF	ITE 130	26	6	32	6	26	32	270
I5	Wendy's	2.300	TSF	ITE 934	47	45	92	39	36	75	1,083
	Pass-By (49% AM, 50% PM)			[a]	-23	-22	-45	-20	-18	-38	-83
I6	Reliance II Specific Plan										
	Industrial Park	1853.500	TSF	ITE 130	593	148	741	148	593	741	6,246
	Shopping Center	10.000	TSF	ITE 820	6	3	9	18	20	38	378
	Pass-By (34% PM)			[a]	0	0	0	-6	-7	-13	-13
I7	City of Hope Medical Offices	90.000	TSF	ITE 720	195	55	250	87	224	311	3,132
I8	The Park at Live Oak Specific Plan										
	Industrial Park	1451.400	TSF	ITE 130	464	117	581	116	465	581	4,891
	Shopping Center	98.600	TSF	ITE 820	125	76	201	258	280	538	5,955
	Pass-By (34% PM)				0	0	0	-88	-95	-183	-183
I9	Materials Recovery Facility & Transfer Station	6000	TPD	STUDY	350	314	664	336	328	664	8,333
I10	Vincent Avenue Industrial Building	545.735	TSF	STUDY	427	58	485	57	379	436	3,437
City of Baldwin Park											
B1	4923 Fortin Street - Single Family Residential	15	DU	ITE 210	3	8	11	9	6	15	142
B2	5115 Azusa Canyon Road Warehouse	90.000	TSF	ITE 150	12	3	15	5	12	17	157
City of Azusa											
A1	198 S. Peckham Road - Industrial	12.184	TSF	ITE 110	8	1	9	1	7	8	60
A2	Azusa Business Center	462.491	TSF	ITE 130	148	37	185	37	148	185	1,559
A3	Starbucks	1.850	TSF	ITE 937	84	81	165	40	40	80	1,518
	Pass-By (49% AM)[4]			[a] [c]	-41	-40	-81	0	0	0	-81
A4	Lagunitas Brewing Company	342.629	TSF	ITE 140	164	48	212	72	158	230	1,347
A5	CT Azusa Center - Industrial	181.800	TSF	ITE 130	58	15	73	15	58	73	613
A6	Crow Holdings Industrial	146.000	TSF	ITE 130	47	11	58	12	46	58	492
Total Other Development Trips Generated					**2,946**	**1,100**	**4,046**	**1,298**	**2,946**	**4,244**	**49,836**

Notes:

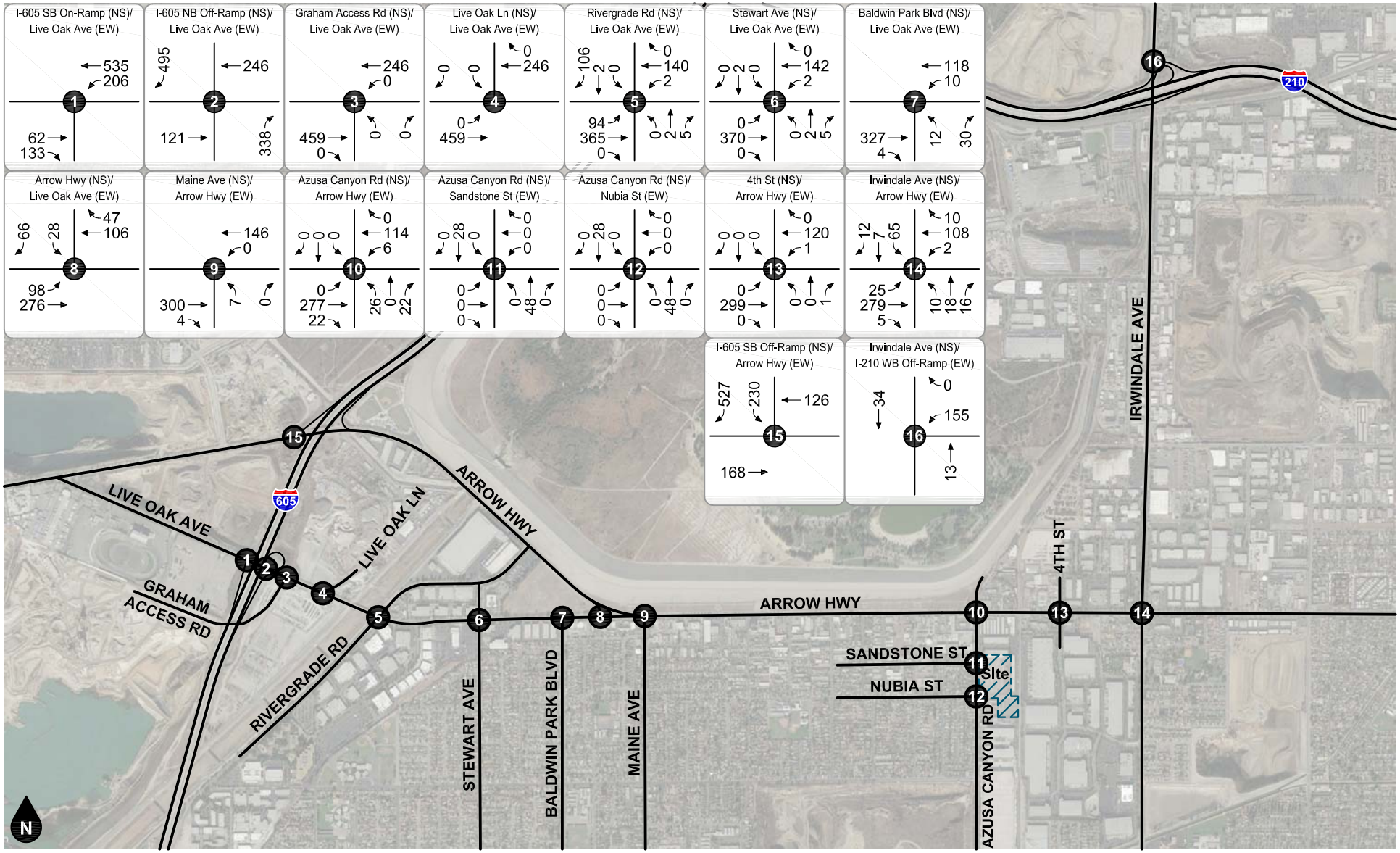
(1) TSF = Thousand Square Feet; DU = Dwelling Units; TPD = Tons Per Day

(2) ITE = Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, 2017; ### = Land Use Code
[a] = Institute of Transportation Engineers, Trip Generation Handbook, 3rd Edition, 2017.
[b] = Exact pass-by data not available, the pass-by rates for Service Station (ITE 945) were used.
[c] = Exact pass-by data not available, the AM pass-by rate for Fast-Food Restaurant w/ Drive-Thru (ITE 934) was used.

Legend

I3 Traffic Analysis Zone

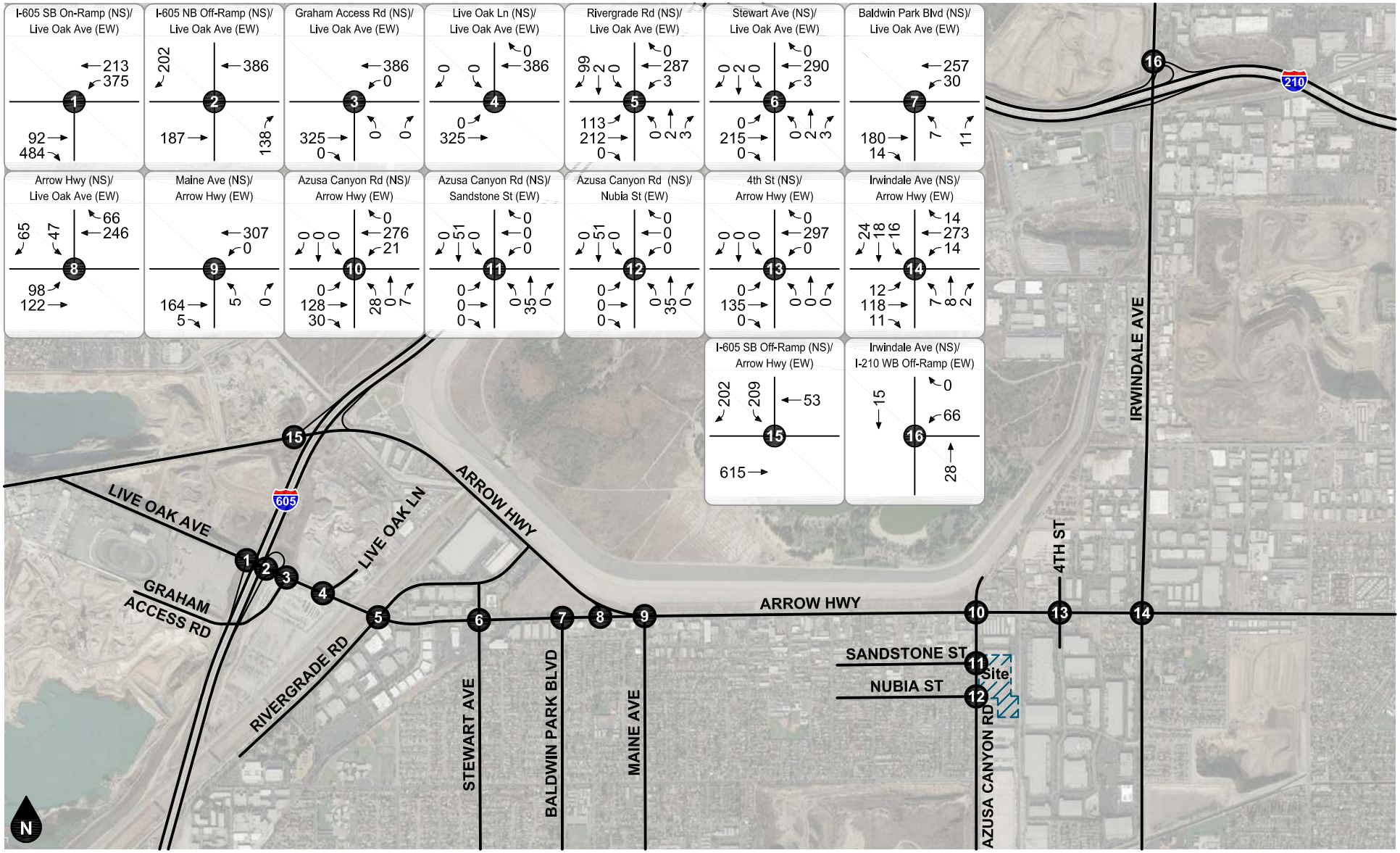
Figure 16
Cumulative Projects Location Map



Legend

(#) Study Intersection

Figure 17
Other Development
AM Peak Hour Intersection Turning Movement Volumes



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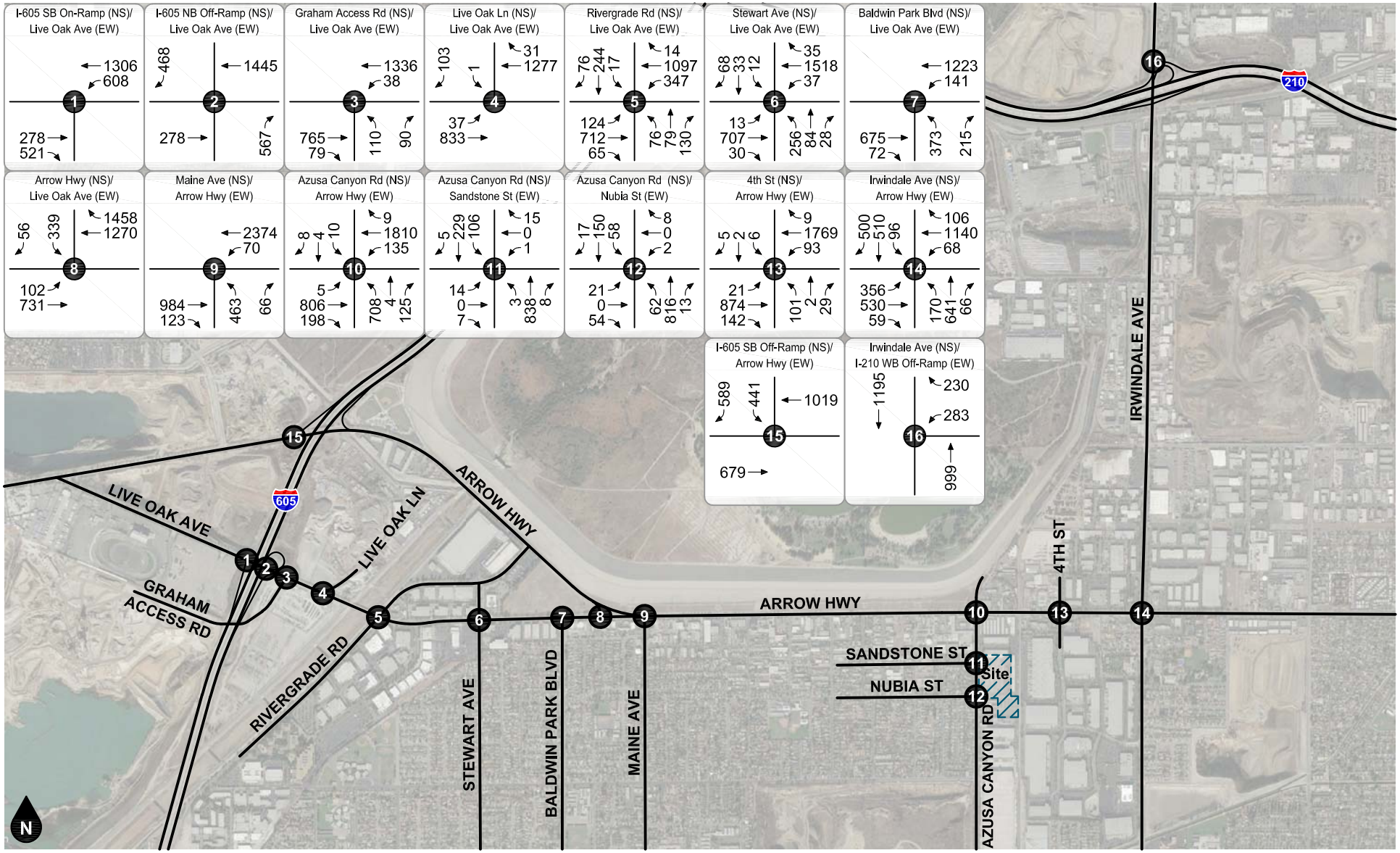
(#) Study Intersection

Figure 18
Other Development
PM Peak Hour Intersection Turning Movement Volumes



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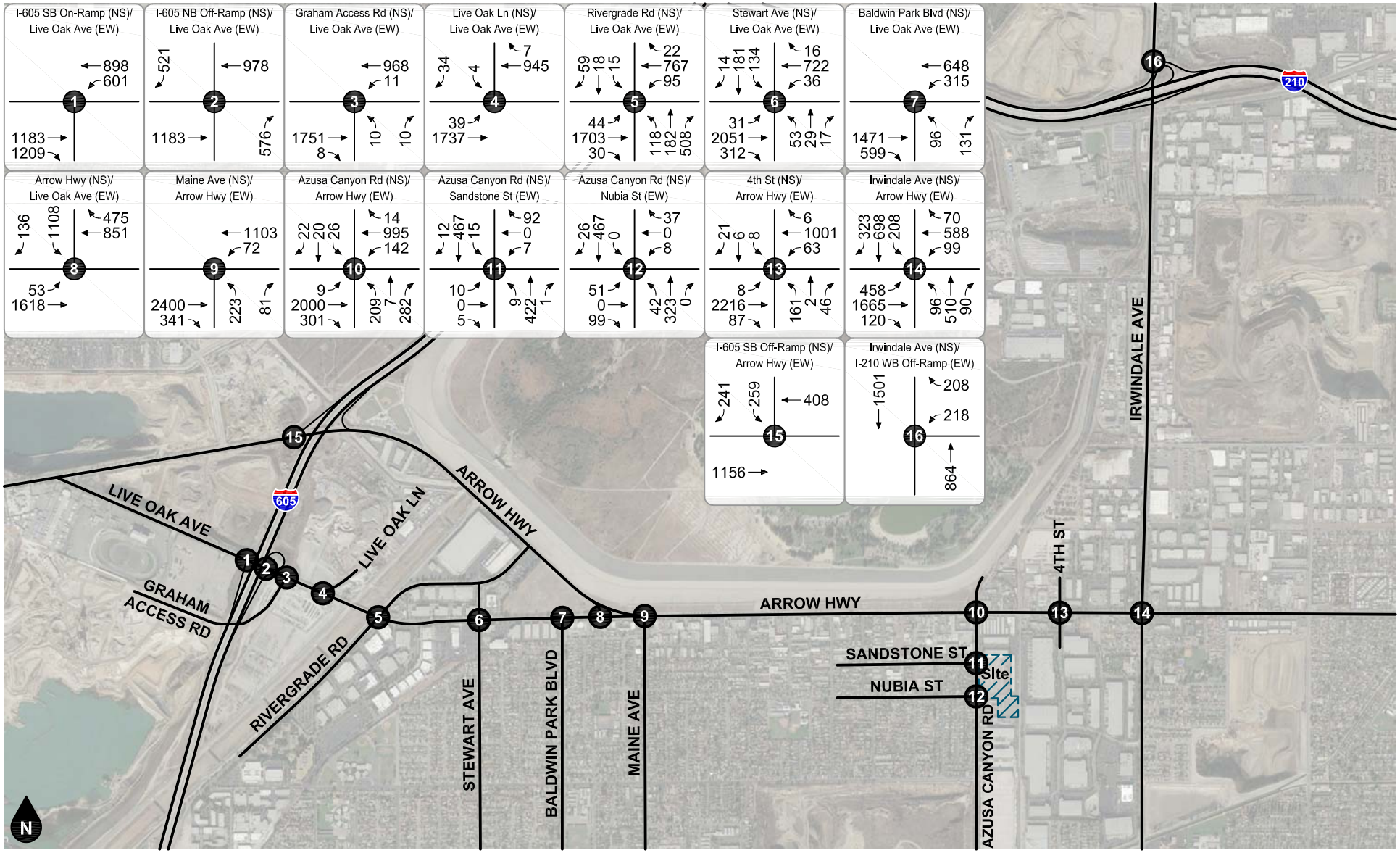
(#) Study Intersection

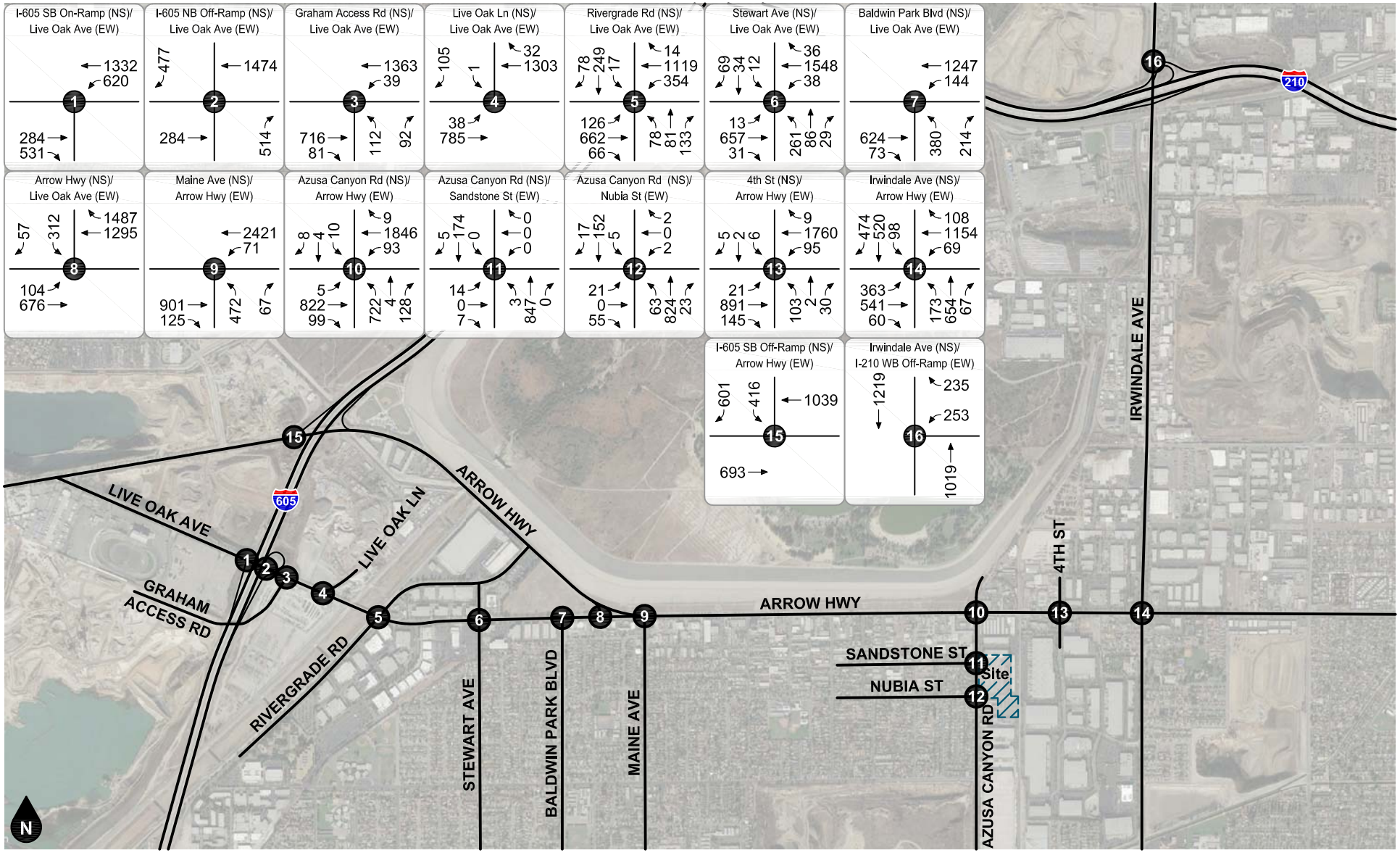
Figure 19
Existing Plus Project
AM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

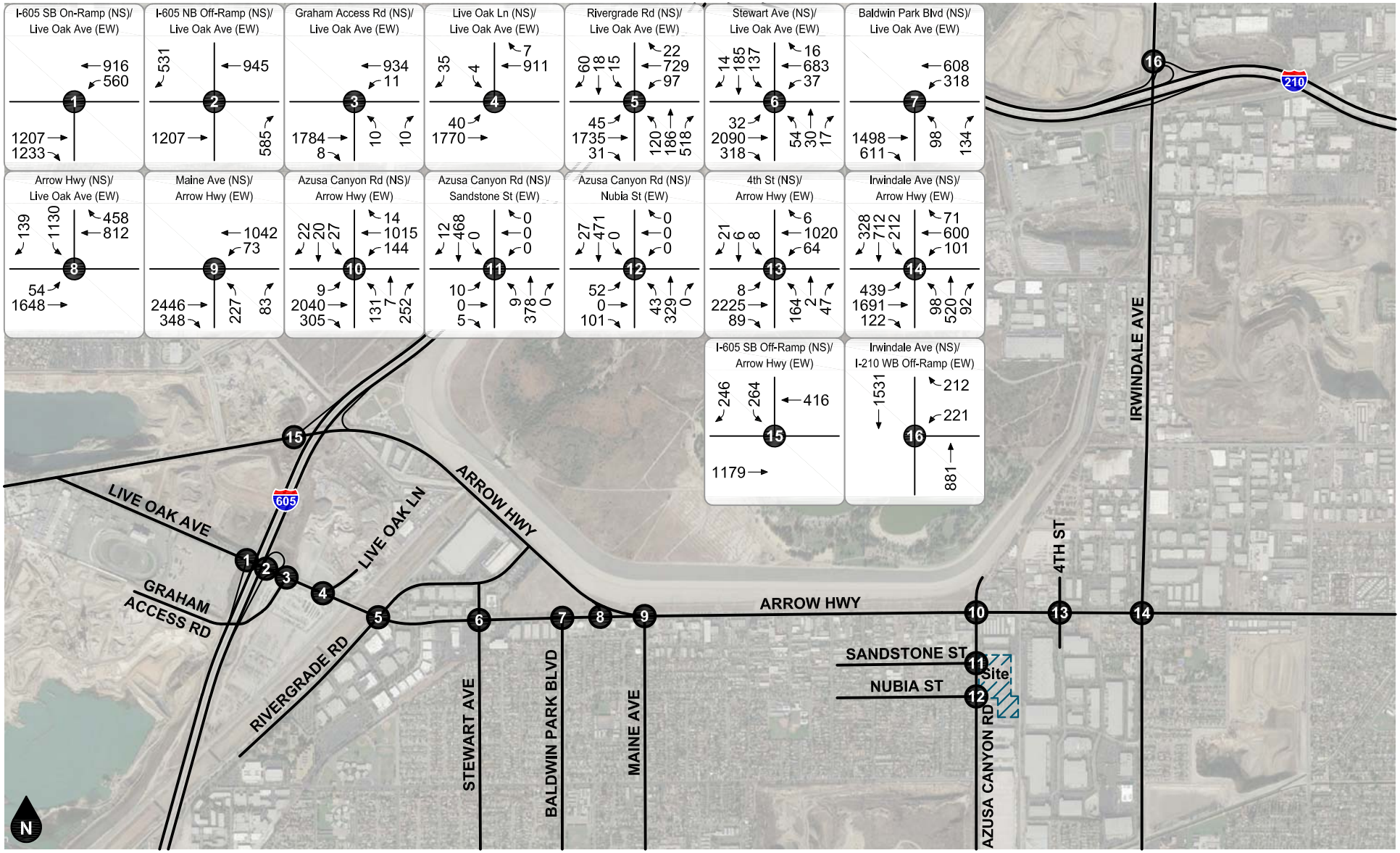
Figure 20
Existing Plus Project
PM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

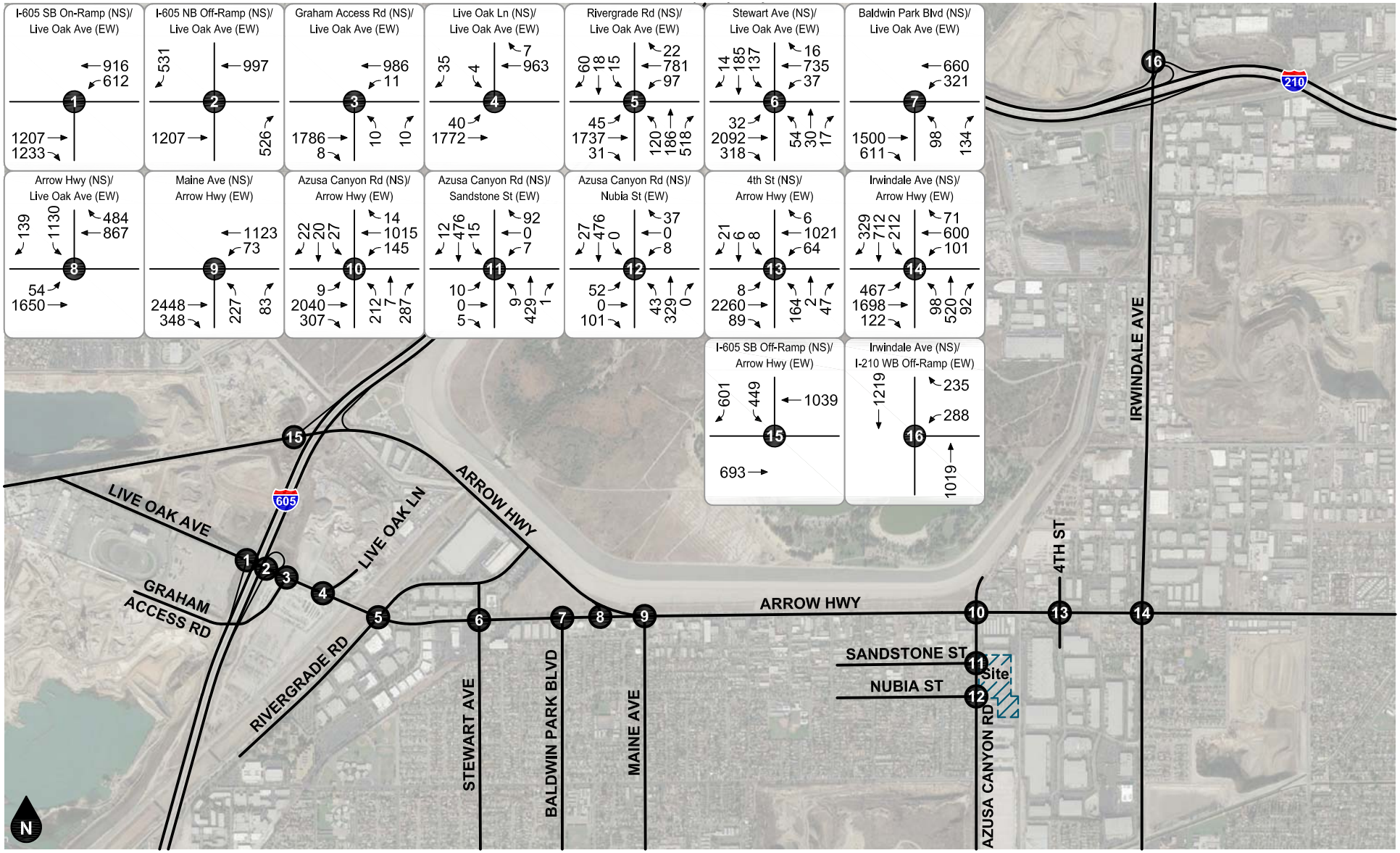
Figure 21
Future Baseline Without Project
AM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

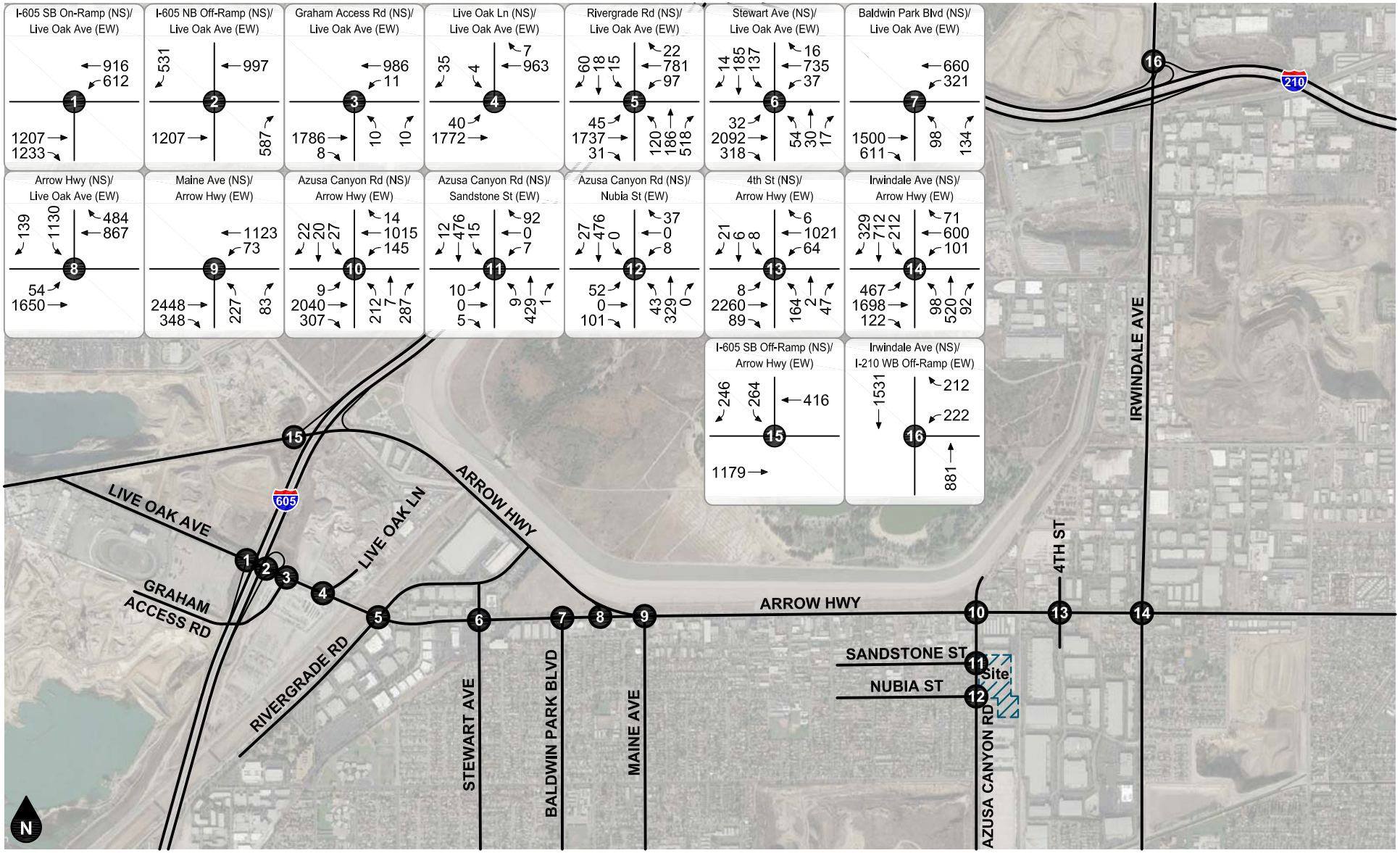
Figure 22
Future Baseline Without Project
PM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

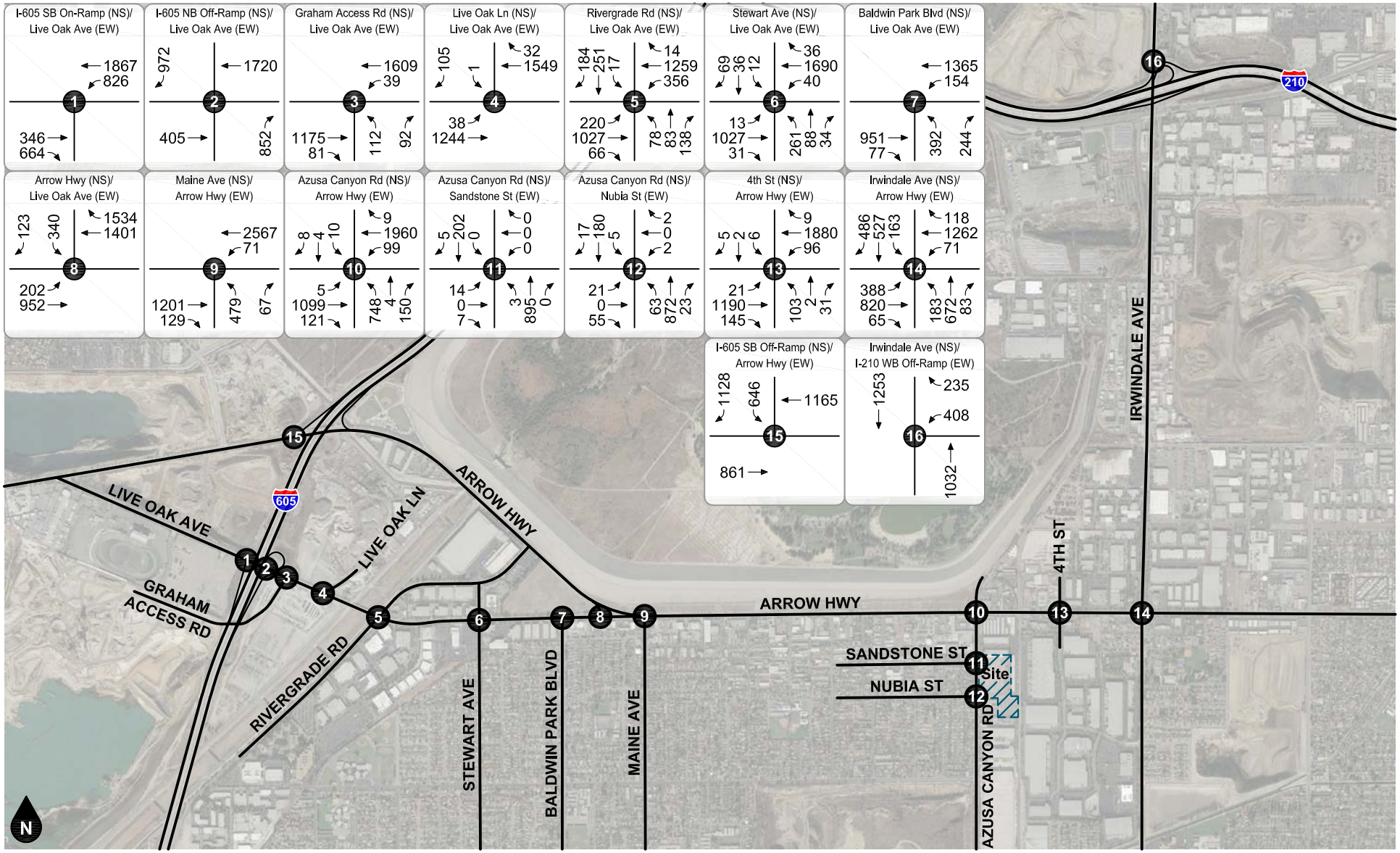
Figure 23
Future Baseline With Project
AM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

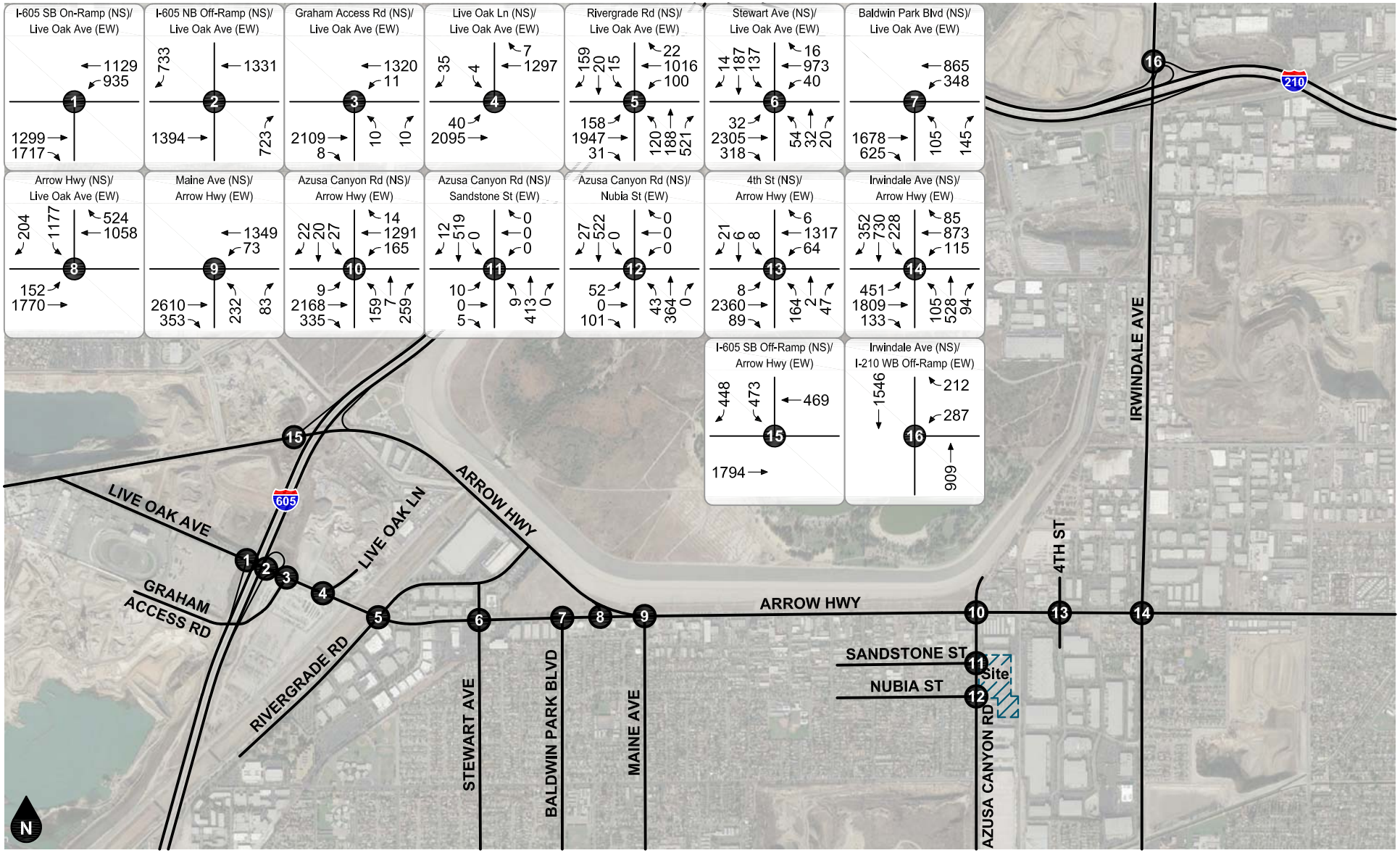
Figure 24
Future Baseline With Project
PM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

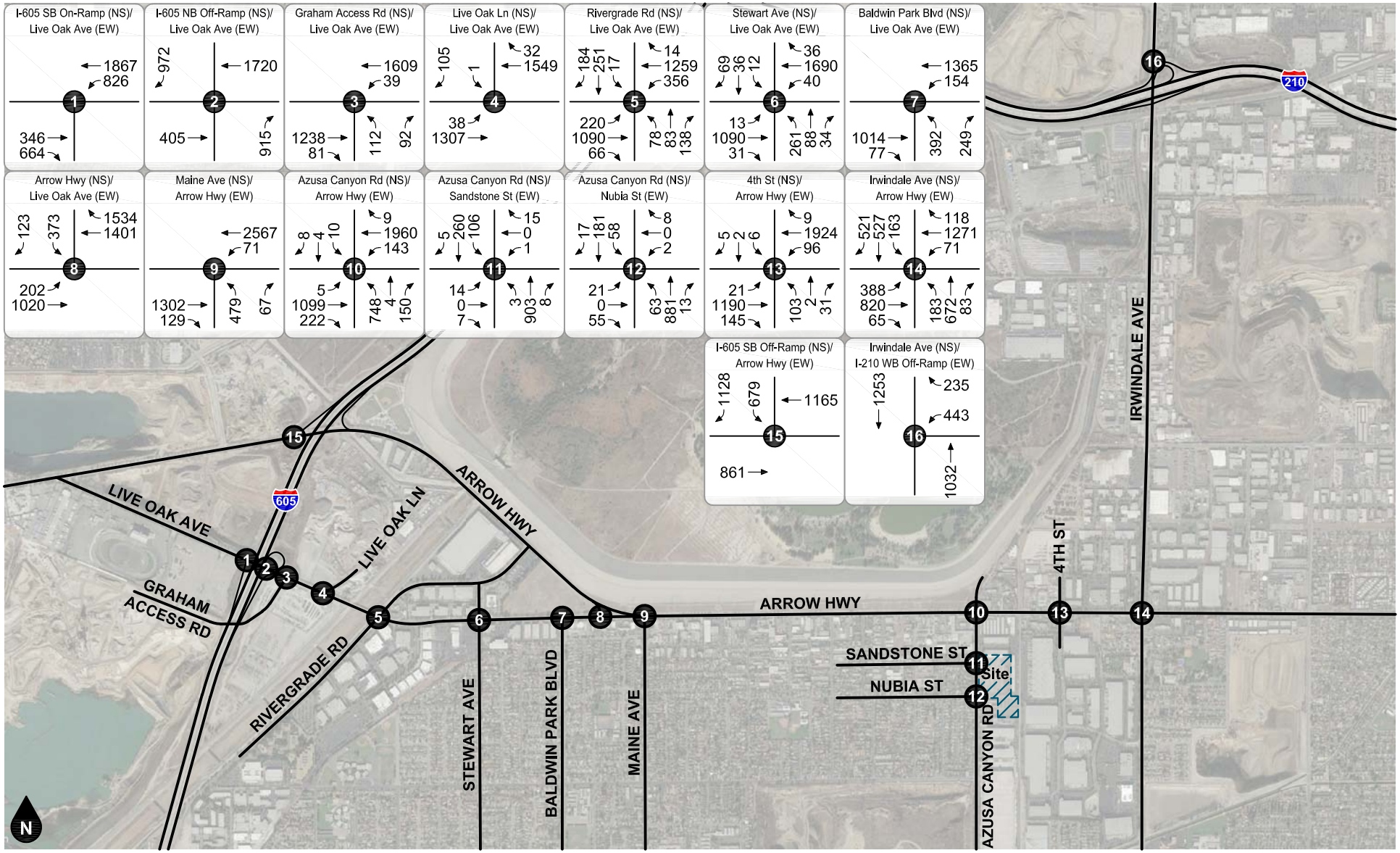
Figure 25
Future Baseline Plus Cumulative Projects Without Project
AM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

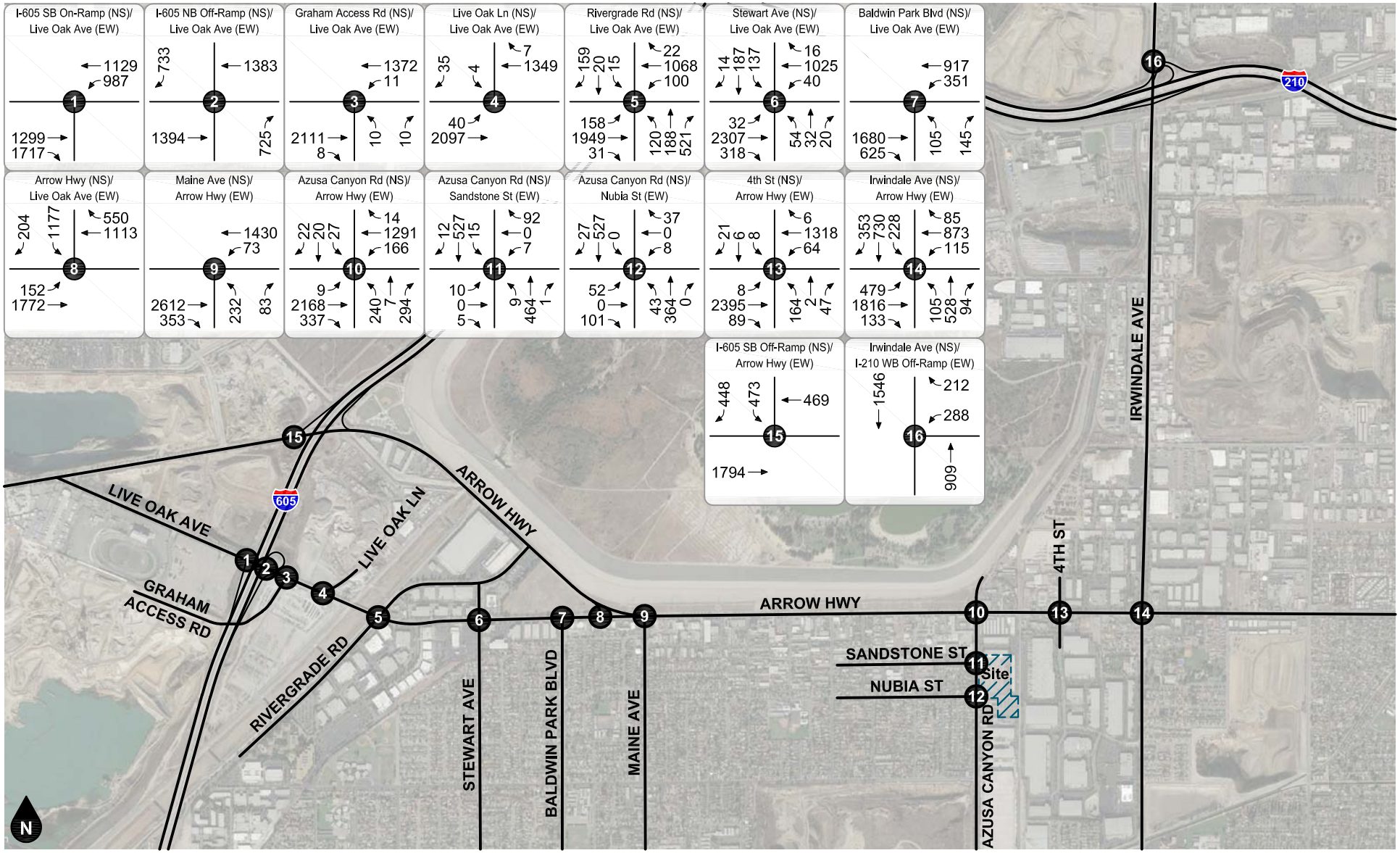
Figure 26
Future Baseline Plus Cumulative Projects Without Project
PM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

Figure 27
Future Baseline Plus Cumulative Projects With Project
AM Peak Hour Intersection Turning Movement Volumes



Legend

(#) Study Intersection

Figure 28
Future Baseline Plus Cumulative Projects With Project
PM Peak Hour Intersection Turning Movement Volumes

6. FUTURE OPERATIONAL ANALYSIS

Detailed intersection Level of Service calculation worksheets for each of the following analysis scenarios are provided in Appendix D.

EXISTING PLUS PROJECT

Intersection Levels of Service

The intersection Levels of Service for Existing Plus Project conditions are shown in Table 6. The study intersections are forecast to operate within acceptable Levels of Service during the peak hours for Existing Plus Project traffic conditions, with the exception of the following intersections (see Table 6):

- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2 (AM/PM Peak Hours)
- Live Oak Lane (NS) at Live Oak Avenue (EW) - #4 (AM/PM Peak Hours)
- Rivergrade Road (NS) at Live Oak Avenue (EW) - #5 (PM Peak Hour)
- Stewart Avenue (NS) at Live Oak Avenue (EW) - #6 (PM Peak Hour)
- Arrow Highway (NS) at Live Oak Avenue (EW) - #8 (PM Peak Hour)
- Maine Avenue (NS) at Arrow Highway (EW) - #9 (PM Peak Hour)
- Azusa Canyon Road (NS) at Arrow Highway (EW) - #10 (PM Peak Hour)
- Irwindale Avenue (NS) at Arrow Highway (EW) - #14 (AM Peak Hour)

Significant Impact Evaluation

Table 7 shows the impact evaluation at the study intersections for Existing Plus Project conditions. The proposed project is forecast to result in a significant traffic impact at the following study intersections for Existing Plus Project conditions without improvements (see Table 7):

- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2 (AM/PM Peak Hours)
- Azusa Canyon Road (NS) at Arrow Highway (EW) - #10 (PM Peak Hour)
- Irwindale Avenue (NS) at Arrow Highway (EW) - #14 (AM Peak Hour)

Mitigation

The following intersection improvements are recommended for Existing Plus Project conditions:

- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2
  - Install a traffic signal.
  - Construct a second right turn lane at the northbound approach.
  - Construct a second right turn lane at the southbound approach.

- Azusa Canyon Road (NS) at Arrow Highway (EW) - #10
  - Restripe the eastbound approach to provide a third through lane (with shared right turns).

- Irwindale Avenue (NS) at Arrow Highway (EW) - #14
  - Restripe the westbound approach to provide a dedicated right turn lane

The proposed project is forecast to result in no significant traffic impacts for Existing Plus Project conditions with implementation of the identified intersection improvements (see Table 7).

FUTURE BASELINE

Intersection Levels of Service

The intersection Levels of Service for Future Baseline conditions are shown in Table 8. The study intersections are forecast to operate within acceptable Levels of Service during the peak hours for Future Baseline conditions, with the exception of the following intersections (see Table 8):

- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2 (AM/PM Peak Hours)
- Live Oak Lane (NS) at Live Oak Avenue (EW) - #4 (AM/PM Peak Hours)
- Rivergrade Road (NS) at Live Oak Avenue (EW) - #5 (PM Peak Hour)
- Stewart Avenue (NS) at Live Oak Avenue (EW) - #6 (PM Peak Hour)
- Arrow Highway (NS) at Live Oak Avenue (EW) - #8 (PM Peak Hour)
- Maine Avenue (NS) at Arrow Highway (EW) - #9 (PM Peak Hour)
- Azusa Canyon Road (NS) at Arrow Highway (EW) - #10 (AM/PM Peak Hour)
- Irwindale Avenue (NS) at Arrow Highway (EW) - #14 (AM Peak Hour)

FUTURE BASELINE WITH PROJECT

Intersection Levels of Service

The intersection Levels of Service for Future Baseline With Project conditions are shown in Table 9. The study intersections are projected to operate within acceptable Levels of Service during the peak hours for Future Baseline With Project conditions, with the exception of the following intersections (see Table 9):

- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2 (AM/PM Peak Hours)
- Live Oak Lane (NS) at Live Oak Avenue (EW) - #4 (AM/PM Peak Hours)
- Rivergrade Road (NS) at Live Oak Avenue (EW) - #5 (PM Peak Hour)
- Stewart Avenue (NS) at Live Oak Avenue (EW) - #6 (PM Peak Hour)
- Arrow Highway (NS) at Live Oak Avenue (EW) - #8 (PM Peak Hour)
- Maine Avenue (NS) at Arrow Highway (EW) - #9 (PM Peak Hour)
- Azusa Canyon Road (NS) at Arrow Highway (EW) - #10 (AM/PM Peak Hour)
- Irwindale Avenue (NS) at Arrow Highway (EW) - #14 (AM Peak Hour)

Significant Impact Evaluation

Table 10 shows the impact evaluation at the study intersections for Future Baseline With Project conditions. The proposed project is forecast to result in a significant traffic impact at the following study intersections for Future Baseline With Project conditions without improvements (see Table 10):

- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2 (AM/PM Peak Hours)
- Azusa Canyon Road (NS) at Arrow Highway (EW) - #10 (PM Peak Hour)
- Irwindale Avenue (NS) at Arrow Highway (EW) - #14 (AM Peak Hour)

Mitigation

No additional improvements are required for Future Baseline With Project conditions (compared to Existing Plus Project conditions).

The proposed project is forecast to result in no significant traffic impacts for Future Baseline With Project conditions with implementation of the identified intersection improvements (see Table 10).

FUTURE BASELINE PLUS CUMULATIVE PROJECTS

Intersection Levels of Service

The intersection Levels of Service for Future Baseline Plus Cumulative Projects conditions are shown in Table 11. The study intersections are projected to operate within acceptable Levels of Service during the peak hours for Future Baseline Plus Cumulative Projects conditions, with the exception of the following intersections (see Table 11):

- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2 (AM/PM Peak Hours)
- Live Oak Lane (NS) at Live Oak Avenue (EW) - #4 (AM/PM Peak Hours)
- Rivergrade Road (NS) at Live Oak Avenue (EW) - #5 (PM Peak Hour)
- Stewart Avenue (NS) at Live Oak Avenue (EW) - #6 (PM Peak Hour)
- Arrow Highway (NS) at Live Oak Avenue (EW) - #8 (PM Peak Hour)
- Maine Avenue (NS) at Arrow Highway (EW) - #9 (PM Peak Hour)
- Azusa Canyon Road (NS) at Arrow Highway (EW) - #10 (AM/PM Peak Hour)
- Irwindale Avenue (NS) at Arrow Highway (EW) - #14 (AM Peak Hour)

FUTURE BASELINE PLUS CUMULATIVE PROJECTS WITH PROJECT

Intersection Levels of Service

The intersection Levels of Service for Future Baseline Plus Cumulative Projects With Project conditions are shown in Table 12. The study intersections are projected to operate within acceptable Levels of Service during the peak hours for Future Baseline Plus Cumulative Projects With Project conditions, with the exception of the following intersections (see Table 12):

- I-605 SB On-Ramp (NS) at Live Oak Avenue (EW) - #1 (PM Peak Hour)
- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2 (AM/PM Peak Hours)
- Live Oak Lane (NS) at Live Oak Avenue (EW) - #4 (AM/PM Peak Hours)
- Rivergrade Road (NS) at Live Oak Avenue (EW) - #5 (PM Peak Hour)
- Stewart Avenue (NS) at Live Oak Avenue (EW) - #6 (PM Peak Hour)
- Baldwin Park Boulevard (NS) at Live Oak Avenue (EW) - #7 (PM Peak Hour)
- Arrow Highway (NS) at Live Oak Avenue (EW) - #8 (PM Peak Hour)
- Maine Avenue (NS) at Arrow Highway (EW) - #9 (PM Peak Hour)
- Azusa Canyon Road (NS) at Arrow Highway (EW) - #10 (AM/PM Peak Hour)
- Irwindale Avenue (NS) at Arrow Highway (EW) - #14 (AM/PM Peak Hour)
- I-605 SB Off-Ramp (NS) at Arrow Highway (EW) - #15 (AM Peak Hour)

Significant Impact Evaluation

Table 13 shows the impact evaluation at the study intersections for Future Baseline Plus Cumulative Projects With Project conditions. The proposed project is forecast to result in a significant traffic impact at the following study intersections for Future Baseline Plus Cumulative Projects With Project conditions without improvements (see Table 13):

- I-605 SB On-Ramp (NS) at Live Oak Avenue (EW) - #1 (AM Peak Hour)
- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2 (AM/PM Peak Hours)
- Azusa Canyon Road (NS) at Arrow Highway (EW) - #10 (PM Peak Hour)
- I-605 SB Off-Ramp (NS) at Arrow Highway (EW) - #15 (AM Peak Hour)

Mitigation

The following additional intersection improvements are recommended for Future Baseline Plus Cumulative Projects With Project conditions:

- I-605 SB On-Ramp (NS) at Live Oak Avenue (EW) - #1
  - Construct a second left turn lane at the westbound approach.*
    *Note: requires westbound approach widening and ramp widening to accommodate an additional receiving lane.

- I-605 SB Off-Ramp (SB) at Arrow Highway (EW) - #15
  - Construct a second left turn lane at the southbound approach.
    *Note: requires southbound off-ramp widening to accommodate a second left turn lane.

The proposed project is forecast to result in no significant traffic impacts for Future Baseline With Project conditions with implementation of the identified intersection improvements (see Table 13).

Table 6
Existing Plus Project Intersection Levels of Service

ID	Study Intersection	Traffic Control[1]	AM Peak Hour V/C[2] or [Delay][3]	AM Peak Hour LOS[4]	PM Peak Hour V/C[2] or [Delay][3]	PM Peak Hour LOS[4]
1.	I-605 SB On-Ramp at Live Oak Ave	TS	0.567	A	0.845	D
2.	I-605 NB Off-Ramps at Live Oak Ave	CSS	[99.9]	F	[99.9]	F
	- With Improvements	TS	0.729	C	0.633	B
3.	Graham Access Rd at Live Oak Ave	TS	0.643	B	0.667	B
4.	Live Oak Ln at Live Oak Ave	CSS	[58.6]	F	[67.0]	F
5.	Rivergrade Rd at Live Oak Ave	TS	0.663	B	1.018	F
6.	Stewart Ave at Live Oak Ave	TS	0.820	D	0.910	E
7.	Baldwin Park Blvd at Live Oak Ave	TS	0.617	B	0.838	D
8.	Arrow Hwy at Live Oak Ave	TS	0.678	B	0.990	E
9.	Maine Ave at Arrow Hwy	TS	0.755	C	0.972	E
10.	Azusa Canyon Rd at Arrow Hwy	TS	0.899	D	1.016	F
	- With Improvements	TS	0.899	D	0.871	D
11.	Azusa Canyon Rd at Sandstone St	CSS	[30.3]	D	[19.8]	C
12.	Azusa Canyon Rd at Nubia St	CSS	[31.5]	D	[20.9]	C
13.	4th St at Arrow Hwy	TS	0.706	C	0.674	B
14.	Irwindale Ave at Arrow Hwy	TS	0.920	E	0.851	D
	- With Improvements	TS	0.887	D	0.851	D
15.	I-605 SB Off-Ramp at Arrow Hwy	TS	0.717	C	0.514	A
16.	Irwindale Ave at I-210 WB Off-Ramp	TS	0.518	A	0.559	A

Notes:

(1) TS = Traffic Signal; CSS = Cross Street Stop

(2) V/C = Volume/Capacity

(3) Delay is shown in [seconds/vehicle] for unsignalized study intersections. For intersections with cross street stop control, Level of Service is based on average delay of the worst individual lane (or movements sharing a lane).

(4) LOS = Level of Service

Table 7
Existing Plus Project Significant Impact Evaluation

Signalized Intersections												
	AM Peak Hour						PM Peak Hour					
	Without Project		With Project				Without Project		With Project			
ID Study Intersection	V/C[1]	LOS[2]	V/C[1]	LOS	Change	Significant Impact?	V/C[1]	LOS[2]	V/C[1]	LOS	Change	Significant Impact?
1. I-605 SB On-Ramp at Live Oak Ave	0.567	A	0.567	A	-	No	0.813	D	0.845	D	+0.032	No
3. Graham Access Rd at Live Oak Ave	0.643	B	0.643	B	-	No	0.666	B	0.667	B	+0.001	No
5. Rivergrade Rd at Live Oak Ave	0.644	B	0.663	B	+0.019	No	1.018	F	1.018	F	-	No
6. Stewart Ave at Live Oak Ave	0.820	D	0.820	D	-	No	0.909	E	0.910	E	+0.001	No
7. Baldwin Park Blvd at Live Oak Ave	0.613	B	0.617	B	+0.004	No	0.836	D	0.838	D	+0.002	No
8. Arrow Hwy at Live Oak Ave	0.667	B	0.678	B	+0.011	No	0.990	E	0.990	E	-	No
9. Maine Ave at Arrow Hwy	0.755	C	0.755	C	-	No	0.972	E	0.972	E	-	No
10. Azusa Canyon Rd at Arrow Hwy	0.899	D	0.899	D	-	No	0.994	E	1.016	F	+0.022	IR
- With Improvements	-	-	0.899	D	-	No	-	-	0.871	D	-0.123	No
13. 4th St at Arrow Hwy	0.693	B	0.706	C	+0.013	No	0.667	B	0.674	B	+0.007	No
14. Irwindale Ave at Arrow Hwy	0.896	D	0.920	E	+0.024	IR	0.850	D	0.851	D	+0.001	No
- With Improvements	-	-	0.887	D	-0.009	No	-	-	0.851	D	+0.001	No
15. I-605 SB Off-Ramp at Arrow Hwy	0.696	B	0.717	C	+0.021	No	0.514	A	0.514	A	-	No
16. Irwindale Ave at I-210 WB Off-Ramp	0.507	A	0.518	A	+0.011	No	0.558	A	0.559	A	+0.001	No

Unsignalized Intersections										
	AM Peak Hour					PM Peak Hour				
	With Project					With Project				
Intersection	Control Delay[1]	LOS[2]	Total Average Delay Per Vehicle	Number of Approach Lanes	Significant Impact?	Control Delay[1]	LOS[2]	Total Average Delay Per Vehicle	Number of Approach Lanes	Significant Impact?
2. I-605 NB Off-Ramps at Live Oak Ave	[99.9]	F	31.2	1	Yes	[99.9]	F	28.6	1	Yes
4. Live Oak Ln at Live Oak Ave	[58.6]	F	1.0	1	No	[58.6]	F	0.4	1	No
11. Azusa Canyon Rd at Sandstone St	[30.3]	D	1.4	1	No	[30.3]	D	1.4	1	No
12. Azusa Canyon Rd at Nubia St	[31.5]	D	1.8	1	No	[31.5]	D	3.0	1	No

Notes:

(1) V/C = Volume/Capacity; [Delay] is shown in seconds/vehicle

(2) LOS = Level of Service

(3) An unsignalized intersection maybe considered to operate acceptably if the delay per vehicle is 4.0 seconds or less when the minor street has a single lane approach and 5.0 seconds or less for a multilane approach.

(4) IR = significant Impact per City of Irwindale thresholds; BP = significant impact per City of Baldwin Park thresholds

Table 8
Future Baseline Intersection Levels of Service

ID	Study Intersection	Traffic Control[1]	AM Peak Hour V/C[2] or [Delay][3]	AM Peak Hour LOS[4]	PM Peak Hour V/C[2] or [Delay][3]	PM Peak Hour LOS[4]
1.	I-605 SB On-Ramp at Live Oak Ave	TS	0.576	A	0.827	D
2.	I-605 NB Off-Ramps at Live Oak Ave	CSS	[99.9]	F	[99.9]	F
3.	Graham Access Rd at Live Oak Ave	TS	0.653	B	0.677	B
4.	Live Oak Ln at Live Oak Ave	CSS	[56.8]	F	[67.9]	F
5.	Rivergrade Rd at Live Oak Ave	TS	0.655	B	1.036	F
6.	Stewart Ave at Live Oak Ave	TS	0.834	D	0.926	E
7.	Baldwin Park Blvd at Live Oak Ave	TS	0.623	B	0.851	D
8.	Arrow Hwy at Live Oak Ave	TS	0.678	B	1.007	F
9.	Maine Ave at Arrow Hwy	TS	0.768	C	0.989	E
10.	Azusa Canyon Rd at Arrow Hwy	TS	0.914	E	1.011	F
11.	Azusa Canyon Rd at Sandstone St	CSS	[13.6]	B	[14.5]	B
12.	Azusa Canyon Rd at Nubia St	CSS	[26.7]	D	[21.1]	C
13.	4th St at Arrow Hwy	TS	0.704	C	0.677	B
14.	Irwindale Ave at Arrow Hwy	TS	0.911	E	0.865	D
15.	I-605 SB Off-Ramp at Arrow Hwy	TS	0.707	C	0.521	A
16.	Irwindale Ave at I-210 WB Off-Ramp	TS	0.516	A	0.567	A

Notes:

(1) TS = Traffic Signal; CSS = Cross Street Stop

(2) V/C = Volume/Capacity

(3) Delay is shown in [seconds/vehicle] for unsignalized study intersections. For intersections with cross street stop control, Level of Service is based on average delay of the worst individual lane (or movements sharing a lane).

(4) LOS = Level of Service

Table 9
Future Baseline With Project Intersection Levels of Service

ID	Study Intersection	Traffic Control[1]	AM Peak Hour V/C[2] or [Delay][3]	AM Peak Hour LOS[4]	PM Peak Hour V/C[2] or [Delay][3]	PM Peak Hour LOS[4]
1.	I-605 SB On-Ramp at Live Oak Ave	TS	0.576	A	0.860	D
2.	I-605 NB Off-Ramps at Live Oak Ave	CSS	[99.9]	F	[99.9]	F
	- With Improvements	TS	0.741	C	0.543	A
3.	Graham Access Rd at Live Oak Ave	TS	0.653	B	0.678	B
4.	Live Oak Ln at Live Oak Ave	CSS	[61.9]	F	[71.0]	F
5.	Rivergrade Rd at Live Oak Ave	TS	0.674	B	1.037	F
6.	Stewart Ave at Live Oak Ave	TS	0.834	D	0.926	E
7.	Baldwin Park Blvd at Live Oak Ave	TS	0.627	B	0.853	D
8.	Arrow Hwy at Live Oak Ave	TS	0.689	B	1.008	F
9.	Maine Ave at Arrow Hwy	TS	0.768	C	0.989	E
10.	Azusa Canyon Rd at Arrow Hwy	TS	0.914	E	1.034	F
	- With Improvements	TS	0.914	E	0.885	D
11.	Azusa Canyon Rd at Sandstone St	CSS	[33.3]	D	[20.1]	C
12.	Azusa Canyon Rd at Nubia St	CSS	[32.5]	D	[21.4]	C
13.	4th St at Arrow Hwy	TS	0.718	C	0.685	B
14.	Irwindale Ave at Arrow Hwy	TS	0.936	E	0.866	D
	- With Improvements	TS	0.902	E	0.866	D
15.	I-605 SB Off-Ramp at Arrow Hwy	TS	0.728	C	0.521	A
16.	Irwindale Ave at I-210 WB Off-Ramp	TS	0.526	A	0.568	A

Notes:

(1) TS = Traffic Signal; CSS = Cross Street Stop

(2) V/C = Volume/Capacity

(3) Delay is shown in [seconds/vehicle] for unsignalized study intersections. For intersections with cross street stop control, Level of Service is based on average delay of the worst individual lane (or movements sharing a lane).

(4) LOS = Level of Service

Table 10
Future Baseline With Project Significant Impact Evaluation

Signalized Intersections												
	AM Peak Hour						PM Peak Hour					
	Without Project		With Project				Without Project		With Project			
ID Study Intersection	V/C[1]	LOS[2]	V/C[1]	LOS	Change	Significant Impact?	V/C[1]	LOS[2]	V/C[1]	LOS	Change	Significant Impact?
1. I-605 SB On-Ramp at Live Oak Ave	0.576	A	0.576	A	-	No	0.827	D	0.860	D	+0.033	No
3. Graham Access Rd at Live Oak Ave	0.653	B	0.653	B	-	No	0.677	B	0.678	B	+0.001	No
5. Rivergrade Rd at Live Oak Ave	0.655	B	0.674	B	+0.019	No	1.036	F	1.037	F	+0.001	No
6. Stewart Ave at Live Oak Ave	0.834	D	0.834	D	-	No	0.926	E	0.926	E	-	No
7. Baldwin Park Blvd at Live Oak Ave	0.623	B	0.627	B	+0.004	No	0.851	D	0.853	D	+0.002	No
8. Arrow Hwy at Live Oak Ave	0.678	B	0.689	B	+0.011	No	1.007	F	1.008	F	+0.001	No
9. Maine Ave at Arrow Hwy	0.768	C	0.768	C	-	No	0.989	E	0.989	E	-	No
10. Azusa Canyon Rd at Arrow Hwy	0.914	E	0.914	E	-	No	1.011	F	1.034	F	+0.023	IR
- With Improvements	-	-	0.914	E	-	No	-	-	0.885	D	-0.126	No
13. 4th St at Arrow Hwy	0.704	C	0.718	C	+0.014	No	0.677	B	0.685	B	+0.008	No
14. Irwindale Ave at Arrow Hwy	0.911	E	0.936	E	+0.025	IR	0.865	D	0.866	D	+0.001	No
- With Improvements	-	-	0.902	E	-0.009	No	-	-	0.866	D	+0.001	No
15. I-605 SB Off-Ramp at Arrow Hwy	0.707	C	0.728	C	+0.032	No	0.521	A	0.521	A	+0.007	No
16. Irwindale Ave at I-210 WB Off-Ramp	0.516	A	0.526	A	+0.019	No	0.567	A	0.568	A	+0.010	No

Unsignalized Intersections										
	AM Peak Hour					PM Peak Hour				
	With Project					With Project				
Intersection	Control Delay[1]	LOS[2]	Total Average Delay Per Vehicle	Number of Approach Lanes	Significant Impact?	Control Delay[1]	LOS[2]	Total Average Delay Per Vehicle	Number of Approach Lanes	Significant Impact?
2. I-605 NB Off-Ramps at Live Oak Ave	[99.9]	F	34.9	1	Yes	[99.9]	F	32.3	1	Yes
4. Live Oak Ln at Live Oak Ave	[61.9]	F	1.0	1	No	[61.9]	F	0.4	1	No
11. Azusa Canyon Rd at Sandstone St	[33.3]	D	1.4	1	No	[33.3]	D	1.4	1	No
12. Azusa Canyon Rd at Nubia St	[32.5]	D	1.8	1	No	[32.5]	D	3.0	1	No

Notes:

(1) V/C = Volume/Capacity; [Delay] is shown in seconds/vehicle

(2) LOS = Level of Service

(3) An unsignalized intersection maybe considered to operate acceptably if the delay per vehicle is 4.0 seconds or less when the minor street has a single lane approach and 5.0 seconds or less for a multilane approach.

(4) IR = significant Impact per City of Irwindale thresholds; BP = significant impact per City of Baldwin Park thresholds

Table 11
Future Baseline Plus Cumulative Projects Intersection Levels of Service

ID	Study Intersection	Traffic Control[1]	AM Peak Hour V/C[2] or [Delay][3]	AM Peak Hour LOS[4]	PM Peak Hour V/C[2] or [Delay][3]	PM Peak Hour LOS[4]
1.	I-605 SB On-Ramp at Live Oak Ave	TS	0.724	C	1.090	F
2.	I-605 NB Off-Ramps at Live Oak Ave	CSS	[99.9]	F	[99.9]	F
3.	Graham Access Rd at Live Oak Ave	TS	0.730	C	0.778	C
4.	Live Oak Ln at Live Oak Ave	CSS	[99.9]	F	[99.9]	F
5.	Rivergrade Rd at Live Oak Ave	TS	0.807	D	1.106	F
6.	Stewart Ave at Live Oak Ave	TS	0.883	D	0.997	E
7.	Baldwin Park Blvd at Live Oak Ave	TS	0.735	C	0.976	E
8.	Arrow Hwy at Live Oak Ave	TS	0.782	C	1.062	F
9.	Maine Ave at Arrow Hwy	TS	0.801	D	1.042	F
10.	Azusa Canyon Rd at Arrow Hwy	TS	0.958	E	1.069	F
11.	Azusa Canyon Rd at Sandstone St	CSS	[14.3]	B	[15.5]	C
12.	Azusa Canyon Rd at Nubia St	CSS	[29.1]	D	[23.4]	C
13.	4th St at Arrow Hwy	TS	0.742	C	0.705	C
14.	Irwindale Ave at Arrow Hwy	TS	1.004	F	0.913	E
15.	I-605 SB Off-Ramp at Arrow Hwy	TS	0.898	D	0.788	C
16.	Irwindale Ave at I-210 WB Off-Ramp	TS	0.572	A	0.592	A

Notes:

(1) TS = Traffic Signal; CSS = Cross Street Stop

(2) V/C = Volume/Capacity

(3) Delay is shown in [seconds/vehicle] for unsignalized study intersections. For intersections with cross street stop control, Level of Service is based on average delay of the worst individual lane (or movements sharing a lane).

(4) LOS = Level of Service

Table 12
Future Baseline Plus Cumulative Projects With Project Intersection Levels of Service

ID	Study Intersection	Traffic Control[1]	AM Peak Hour V/C[2] or [Delay][3]	AM Peak Hour LOS[4]	PM Peak Hour V/C[2] or [Delay][3]	PM Peak Hour LOS[4]
1.	I-605 SB On-Ramp at Live Oak Ave	TS	0.724	C	1.123	F
	- With Improvements	TS	0.683	B	0.814	D
2.	I-605 NB Off-Ramps at Live Oak Ave	CSS	[99.9]	F	[99.9]	F
	- With Improvements	TS	0.941	E	0.765	C
3.	Graham Access Rd at Live Oak Ave	TS	0.730	C	0.779	C
4.	Live Oak Ln at Live Oak Ave	CSS	[99.9]	F	[99.9]	F
5.	Rivergrade Rd at Live Oak Ave	TS	0.827	D	1.107	F
6.	Stewart Ave at Live Oak Ave	TS	0.883	D	0.998	E
7.	Baldwin Park Blvd at Live Oak Ave	TS	0.738	C	0.979	E
8.	Arrow Hwy at Live Oak Ave	TS	0.794	C	1.062	F
9.	Maine Ave at Arrow Hwy	TS	0.801	D	1.042	F
10.	Azusa Canyon Rd at Arrow Hwy	TS	0.958	E	1.091	F
	- With Improvements	TS	0.958	E	0.936	E
11.	Azusa Canyon Rd at Sandstone St	CSS	[36.5]	E	[22.0]	C
12.	Azusa Canyon Rd at Nubia St	CSS	[35.7]	E	[23.8]	C
13.	4th St at Arrow Hwy	TS	0.755	C	0.713	C
14.	Irwindale Ave at Arrow Hwy	TS	1.007	F	0.915	E
	- With Improvements	TS	0.970	E	0.915	E
15.	I-605 SB Off-Ramp at Arrow Hwy	TS	0.919	E	0.788	C
	- With Improvements	TS	0.765	C	0.636	B
16.	Irwindale Ave at I-210 WB Off-Ramp	TS	0.583	A	0.592	A

Notes:

(1) TS = Traffic Signal; CSS = Cross Street Stop

(2) V/C = Volume/Capacity

(3) Delay is shown in [seconds/vehicle] for unsignalized study intersections. For intersections with cross street stop control, Level of Service is based on average delay of the worst individual lane (or movements sharing a lane).

(4) LOS = Level of Service

Table 13
Future Baseline Plus Cumulative Projects With Project Significant Impact Evaluation

Signalized Intersections												
	AM Peak Hour						PM Peak Hour					
	Without Project		With Project				Without Project		With Project			
ID Study Intersection	V/C[1]	LOS[2]	V/C[1]	LOS	Change	Significant Impact?	V/C[1]	LOS[2]	V/C[1]	LOS	Change	Significant Impact?
1. I-605 SB On-Ramp at Live Oak Ave	0.724	C	0.724	C	-	No	1.090	F	1.123	F	+0.033	IR
- With Improvements	-	-	0.683	B	-0.041	No	-	-	0.814	D	-0.276	No
3. Graham Access Rd at Live Oak Ave	0.730	C	0.730	C	-	No	0.778	C	0.779	C	+0.001	No
5. Rivergrade Rd at Live Oak Ave	0.807	D	0.827	D	+0.020	No	1.106	F	1.107	F	+0.001	No
6. Stewart Ave at Live Oak Ave	0.883	D	0.883	D	-	No	0.997	E	0.998	E	+0.001	No
7. Baldwin Park Blvd at Live Oak Ave	0.735	C	0.738	C	+0.003	No	0.976	E	0.979	E	+0.003	No
8. Arrow Hwy at Live Oak Ave	0.782	C	0.794	C	+0.012	No	1.062	F	1.062	F	-	No
9. Maine Ave at Arrow Hwy	0.801	D	0.801	D	-	No	1.042	F	1.042	F	-	No
10. Azusa Canyon Rd at Arrow Hwy	0.958	E	0.958	E	-	No	1.069	F	1.091	F	+0.022	IR
- With Improvements	-	-	0.958	E	-	No	-	-	0.936	E	-0.133	No
13. 4th St at Arrow Hwy	0.742	C	0.755	C	+0.013	No	0.705	C	0.713	C	+0.008	No
14. Irwindale Ave at Arrow Hwy	1.004	F	1.007	F	+0.003	No	0.913	E	0.915	E	+0.002	No
15. I-605 SB Off-Ramp at Arrow Hwy	0.898	D	0.919	E	+0.021	IR	0.788	C	0.788	C	-	No
- With Improvements	-	-	0.765	C	-0.133	No	-	-	0.636	B	-0.152	No
16. Irwindale Ave at I-210 WB Off-Ramp	0.572	A	0.583	A	+0.011	No	0.592	A	0.592	A	-	No

Unsignalized Intersections										
	AM Peak Hour					PM Peak Hour				
	With Project					With Project				
Intersection	Control Delay[1]	LOS[2]	Total Average Delay Per Vehicle	Number of Approach Lanes	Significant Impact?	Control Delay[1]	LOS[2]	Total Average Delay Per Vehicle	Number of Approach Lanes	Significant Impact?
2. I-605 NB Off-Ramps at Live Oak Ave	[99.9]	F	99.9	1	Yes	[99.9]	F	99.9	1	Yes
4. Live Oak Ln at Live Oak Ave	[99.9]	F	0.9	1	No	[99.9]	F	0.5	1	No
11. Azusa Canyon Rd at Sandstone St	[36.5]	E	1.3	1	No	[36.5]	E	1.4	1	No
12. Azusa Canyon Rd at Nubia St	[35.7]	E	1.7	1	No	[35.7]	E	3.0	1	No

Notes:
(1) V/C = Volume/Capacity; [Delay] is shown in seconds/vehicle

(2) LOS = Level of Service

(3) An unsignalized intersection maybe considered to operate acceptably if the delay per vehicle is 4.0 seconds or less when the minor street has a single lane approach and 5.0 seconds or less for a multilane approach.

(4) IR = significant Impact per City of Irwindale thresholds; BP = significant impact per City of Baldwin Park thresholds

7. CONGESTION MANAGEMENT PROGRAM

The County of Los Angeles Congestion Management Program (CMP) uses the following criteria to determine if a proposed development requires analysis of Congestion Management Program monitored facilities:

- All CMP arterial monitoring intersections, including monitored freeway on- or off-ramp intersections, where the proposed project will add 50 or more trips during either the morning or evening weekday peak hours;

- Mainline freeway monitoring locations where the project will add 150 or more trips, in either direction, during either the morning or evening weekday peak hours.

Based on the project AM and PM peak hour volumes shown on Figure 14 and Figure 15, the proposed project is not forecast to add 50 peak hour trips or more to a CMP-monitored intersection nor is the project forecast to add 150 peak hour trips or more to a CMP-monitored freeway location.

8. STATE HIGHWAY ANALYSIS

This section presents the analysis of the following State Highway facilities which were selected in consultation with California Department of Transportation (Caltrans) staff:

- I-605 SB On-Ramp (SB) at Live Oak Ave (EW) - #1
- I-605 NB Off-Ramps (NS) at Live Oak Ave (EW) - #2
- I-605 SB Off-Ramp (SB) at Arrow Highway (EW) - #15
- Irwindale Avenue (NS) at I-210 WB Off-Ramp (WB) - #16

METHODOLOGY

Intersection Delay Methodology

In accordance with the California Department of Transportation Guide for the Preparation of Traffic Impact Studies (December 2002), the technique used to assess the performance of an intersection is known as the intersection delay method based on the procedures contained in the Highway Capacity Manual (Transportation Research Board). The methodology considers the traffic volume and distribution of movements, traffic composition, geometric characteristics, and signalization details to calculate the average control delay per vehicle and corresponding Level of Service. Control delay is defined as the portion of delay attributed to the intersection traffic control (such as a traffic signal or stop sign) and includes initial deceleration, queue move-up time, stopped delay, and final acceleration delay. The intersection control delay is then correlated to Level of Service based on the following thresholds:

Level of Service	Intersection Control Delay (Seconds / Vehicle)	
	Signalized Intersection	Unsignalized Intersection
A	≤ 10.0	≤ 10.0
B	> 10.0 to ≤ 20.0	> 10.0 to ≤ 15.0
C	> 20.0 to ≤ 35.0	> 15.0 to ≤ 25.0
D	> 35.0 to ≤ 55.0	> 25.0 to ≤ 35.0
E	> 55.0 to ≤ 80.0	> 35.0 to ≤ 50.0
F	> 80.0	> 50.0

Source: Transportation Research Board, Highway Capacity Manual (6th Edition).

Level of Service is used to qualitatively describe the performance of a roadway facility, ranging from Level of Service A (free-flow conditions) to Level of Service F (extreme congestion and system failure). At intersections with traffic signal or all way stop control, Level of Service is determined by the average control delay for the overall intersection. At intersections with cross street stop control (i.e., one- or two-way stop control), Level of Service is determined by the average control delay for the worst individual movement (or movements sharing a single lane).

Off-Ramp Queuing Methodology

Off-ramp queues are calculated based on the 95th-percentile back-of-queue methodology as reported in the delay calculation worksheets (see Appendix G). In accordance with Caltrans District 7 standards, the 95th-percentile queue length is compared to 85 percent of the distance between the intersection and the gore point to determine if adequate off-ramp storage capacity is provided.

Thresholds of Significance

The California Department of Transportation endeavors to maintain a target LOS [Level of Service] at the transition between LOS "C" and LOS "D" on State highway facilities. For consistency with local requirements, this analysis defines Level of Service D as the minimum acceptable Level of Service for State highway facilities.

For purposes of the State Highway impact analysis, a significant transportation impact is defined to occur if:

- The addition of project-generated trips causes or worsens unacceptable Level of Service (i.e., increases delay under Level of Service E or F conditions); or

- The addition of project-generated trips is forecast to causes or worsens the freeway off-ramp queue length to exceed the available storage capacity.

INTERSECTION ANALYSIS

Existing and Existing Plus Project

Table 14 shows the delay and Levels of Service for the State Highway study intersections for existing and cumulative conditions. As shown in Table 14, the proposed project is forecast to result in a significant traffic impact at the following study intersections for Existing Plus Project conditions without improvements:

- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2

The following intersection improvements were previously identified based on the City of Irwindale methodology for Existing Plus Project conditions:

- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2
  - Install a traffic signal.
  - Construct a second right turn lane at the northbound approach.
  - Construct a second right turn lane at the southbound approach.

As shown in Table 14, the proposed project is forecast to result in no significant traffic impacts for Existing Plus Project conditions with improvements.

Cumulative Without and With Project

As also shown in Table 14, the proposed project is forecast to result in a significant traffic impact at the following study intersections for Future Baseline Plus Cumulative Plus Project conditions without improvements:

- I-605 SB On-Ramp (SB) at Live Oak Ave (EW) - #1
- I-605 NB Off-Ramps (NS) at Live Oak Ave (EW) - #2
- I-605 SB Off-Ramp (SB) at Arrow Highway (EW) - #15

The following intersection improvements were previously identified based on the City of Irwindale methodology for Future Baseline Plus Cumulative Plus Project conditions:

- I-605 SB On-Ramp (NS) at Live Oak Avenue (EW) - #1
  - Construct a second left turn lane at the westbound approach.*
    *Note: requires westbound approach widening and ramp widening to accommodate an additional receiving lane.

- I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2
  - Install a traffic signal.
  - Construct a second right turn lane at the northbound approach.
  - Construct a second right turn lane at the southbound approach.

The following additional intersection improvements are recommended based on the Highway Capacity Manual methodology for Future Baseline Plus Cumulative Plus Project conditions:

- I-605 SB Off-Ramp (SB) at Arrow Highway (EW) - #15
  - Construct a second left turn lane at the southbound approach.
    *Note: requires southbound off-ramp widening to accommodate a second left turn lane.

As shown in Table 14, the proposed project is forecast to result in no significant traffic impacts for Future Baseline Plus Cumulative Plus Project conditions with improvements.

OFF-RAMP QUEUING ANALYSIS

Table 15 summarizes the State Highway off-ramp queuing analysis based on the forecast queue lengths reported in the delay calculation worksheets (see Appendix G). The queue lengths shown in Table 15 include the recommended improvements identified to mitigate

As shown in Table 15, adequate storage length is provided at the State Highway study intersection off-ramps for the evaluated scenarios (with improvements). Therefore, the proposed project is forecast to result in no significant traffic impacts at the State Highway study intersection off-ramps for Existing Plus Project and Future Baseline Plus Cumulative Plus Project conditions with improvements.

Table 14
State Highway Intersection Levels of Service

ID	Study Intersection	Traffic Control[1]	Existing				Existing Plus Project				Net Change in Delay		Significant Impact?
			AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
			Delay[2]	LOS[3]	Delay[2]	LOS[3]	Delay[2]	LOS[3]	Delay[2]	LOS[3]			
1.	I-605 SB On-Ramp at Live Oak Ave	TS	27.6	C	19.4	B	29.7	C	24.1	C	+2.1	+4.7	No
2.	I-605 NB Off-Ramps at Live Oak Ave	CSS	164.7	F	161.1	F	164.7	F	162.9	F	+0.0	+1.8	Yes
	- With Improvements	TS	-	-	-	-	17.0	B	14.7	B	-147.7	-146.4	No
15.	I-605 SB Off-Ramp at Arrow Hwy	TS	17.9	B	12.8	B	20.2	C	12.8	B	+2.3	+0.0	No
16.	Irwindale Ave at I-210 WB Off-Ramp	TS	15.7	B	16.8	B	15.9	B	16.8	B	+0.2	+0.0	No

ID	Study Intersection	Traffic Control[1]	Future Baseline Plus Cumulative				Future Base Plus Cumulative Plus Project				Net Change in Delay		Significant Impact?
			AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
			Delay[2]	LOS[3]	Delay[2]	LOS[3]	Delay[2]	LOS[3]	Delay[2]	LOS[3]			
1.	I-605 SB On-Ramp at Live Oak Ave	TS	114.4	F	48.1	D	114.4	F	56.1	E	+0.0	+8.0	Yes
	- With Improvements	TS	-	-	-	-	29.5	C	17.0	B	-84.9	-31.1	No
2.	I-605 NB Off-Ramps at Live Oak Ave	CSS	1025.8	F	421.6	F	1025.8	F	425.8	F	+0.0	+4.2	Yes
	- With Improvements	TS	-	-	-	-	44.0	D	19.9	B	-981.8	-401.7	No
15.	I-605 SB Off-Ramp at Arrow Hwy	TS	58.8	E	22.1	C	68.0	E	22.1	C	+9.2	+0.0	Yes
	- With Improvements	TS	-	-	-	-	16.6	B	15.2	B	-42.2	-6.9	No
16.	Irwindale Ave at I-210 WB Off-Ramp	TS	16.6	B	17.3	B	16.8	B	17.3	B	+0.2	+0.0	No

Notes:

(1) TS = Traffic Signal; CSS = Cross Street Stop

(2) Delay is shown in seconds/vehicle. For intersections with traffic signal control, LOS is based on the overall average intersection delay. For intersections with cross street stop control, LOS is based on average delay of the worst individual lane (or movements sharing a lane); see Appendix G.

(3) LOS = Level of Service

Table 15
State Highway Off-Ramp Queuing Analysis

Off-Ramp	Total Ramp Length (feet)	85% Total Ramp Length (feet)	Peak Hour	Lane[2]	Existing Plus Project (With Improvements)[1]				Future Baseline Plus Cumulative Plus Project (With Improvements)[1]			
					Designated Turning Lane Storage Length (feet/lane)	95th Percentile Queue (Vehicles/ Lane)[3]	95th Percentile Queue Length (feet/lane)[4]	Adequate Off Ramp Storage Provided?	Designated Turning Lane Storage Length (feet/lane)	95th Percentile Queue (Vehicles/ Lane)[3]	95th Percentile Queue Length (feet/lane)[4]	Adequate Off Ramp Storage Provided?
2. I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)	2,600	2,210	AM	NBR	830	7.66	200	Yes	830	18.63	475	Yes
				SBR	1,560	5.20	150		1,560	19.89	500	
			PM	NBR	830	6.39	175	Yes	830	8.62	225	Yes
				SBR	1,560	5.52	150		1,560	8.77	225	
15. I-605 SB Off-Ramp (SB) at Arrow Hwy (EW)	975	830	AM	SBL	465	17.42	450	Yes	465	7.39	200	Yes
				SBR(F)	465	0.00	0		465	0.00	0	
			PM	SBL	465	8.20	225	Yes	465	7.10	200	Yes
				SBR	465	0.00	0		465	0.00	0	
16. I-210 WB Off-Ramp (WB) at Irwindale Avenue (NS)	1,215	1,030	AM	WBL	785	6.43	175	Yes	785	8.72	225	Yes
				WBLR	785	5.84	150		785	8.36	225	
			PM	WBL	785	4.98	125	Yes	785	6.26	175	Yes
				WBLR	785	4.88	125		785	5.71	150	

Notes:

(1) Based on improvements identified for Level of Service analysis.

(2) NB = Northbound; SB = Southbound; L = Left; R = Right; (F) = Free Right Turn

(3) Based on Highway Capacity Manual methodology; see Appendix G.

(4) Based on 25 feet of queue length per vehicle; rounded up to nearest 25 feet.

9. IMPROVEMENT SUMMARY

PROJECT IMPROVEMENTS

The proposed project shall remove and reconstruct the existing project site driveways in accordance with applicable engineering standards to the satisfaction of the City of Irwindale Public Works Department.

Azusa Canyon Road shall be constructed/repaired at its ultimate half-section width, including landscaping and parkway improvements in conjunction with development, or as otherwise required by the City of Irwindale Public Works Department.

MITIGATION MEASURES

The following intersection improvements are recommended for Existing Plus Project and Future Baseline With Project conditions:

- **I-605 NB Off-Ramps (NS) at Live Oak Avenue (EW) - #2**
  - Install a traffic signal.
  - Construct a second right turn lane at the northbound approach.
  - Construct a second right turn lane at the southbound approach.
  - Widen bridge/roadway to provide a third through lane at the westbound approach.

- **Azusa Canyon Road (NS) at Arrow Highway (EW) - #10**
  - Restripe the eastbound approach to provide a third through lane (with shared right turns).

- **Irwindale Avenue (NS) at Arrow Highway (EW) - #14**
  - Restripe the westbound approach to provide a dedicated right turn lane

The following additional intersection improvements are recommended for Future Baseline Plus Cumulative Projects With Project conditions:

- **I-605 SB On-Ramp (NS) at Live Oak Avenue (EW) - #1**
  - Construct a second left turn lane at the westbound approach.*
    *Note: requires westbound approach widening and ramp widening to accommodate an additional receiving lane.

- **I-605 SB Off-Ramp (SB) at Arrow Highway (EW) - #15**
  - Construct a second left turn lane at the southbound approach.
    *Note: requires southbound off-ramp widening to accommodate a second left turn lane.

FAIR SHARE CONTRIBUTION

Table 16 shows the project fair share percentage of new traffic at the significantly impacted intersections for which mitigation measure improvements have been identified. The project fair share is based on the proportion of project peak hour traffic contributed to the improvement location relative to the total new peak hour traffic volume.

Table 16
Project Fair Share Contribution

ID	Study Intersection	Peak Hour	Peak Hour Volumes				Project Share	Significant Impact?
			Existing	Future Baseline Plus Cumulative Projects With Project	Total New Trips	Project Trips		
1.	I-605 SB On-Ramp at Live Oak Ave	AM	2,713	3,703	990	0	0.0%	No
		PM	3,839	5,132	1,293	52	4.0%	Yes
2.	I-605 NB Off-Ramps at Live Oak Ave	AM	2,695	4,012	1,317	63	4.8%	Yes
		PM	3,204	4,235	1,031	54	5.2%	Yes
10.	Azusa Canyon Rd at Arrow Hwy	AM	3,677	4,362	685	145	21.2%	No
		PM	3,908	4,595	687	119	17.3%	Yes
14.	Irwindale Ave at Arrow Hwy	AM	4,198	4,882	684	44	6.4%	Yes
		PM	4,889	5,539	650	36	5.5%	No
15.	I-605 SB Off-Ramp at Arrow Hwy	AM	2,695	3,833	1,138	33	2.9%	Yes
		PM	2,064	3,184	1,120	0	0.0%	No

10. CONCLUSIONS

The proposed project is forecast to result in no significant traffic/transportation impacts with implementation of the identified mitigation measures.

GENERAL RECOMMENDATIONS

All roadway design, traffic signing and striping, and traffic control improvements relating to the proposed project should be constructed in accordance with applicable engineering standards and to the satisfaction of the City of Irwindale Public Works Department.

On-site traffic signing and striping plans should be submitted for City of Irwindale approval in conjunction with detailed construction plans for the project.

Off-street parking should be provided to meet City of Irwindale Municipal Code requirements.

The final grading, landscaping, and street improvement plans should demonstrate that sight distance standards are met in accordance with applicable City of Irwindale/California Department of Transportation sight distance standards.

As is the case for any roadway design, the City of Irwindale should periodically review traffic operations in the vicinity of the project once the project is constructed to assure that the traffic operations are satisfactory.

APPENDICES

Appendix A Glossary

Appendix B Scoping Agreement

Appendix C Volume Count Worksheets

Appendix D Level of Service Worksheets

Appendix E Average Daily Traffic Volumes

Appendix F Traffic Signal Warrant Worksheets

Appendix G State Highway Level of Service Worksheets

APPENDIX A

GLOSSARY

GLOSSARY OF TERMS

ACRONYMS

AC	Acres
ADT	Average Daily Traffic
Caltrans	California Department of Transportation
DU	Dwelling Unit
ICU	Intersection Capacity Utilization
LOS	Level of Service
TSF	Thousand Square Feet
V/C	Volume/Capacity
VMT	Vehicle Miles Traveled

TERMS

AVERAGE DAILY TRAFFIC: The average 24-hour volume for a stated period divided by the number of days in that period. For example, Annual Average Daily Traffic is the total volume during a year divided by 365 days.

BANDWIDTH: The number of seconds of green time available for through traffic in a signal progression.

BOTTLENECK: A point of constriction along a roadway that limits the amount of traffic that can proceed downstream from its location.

CAPACITY: The maximum number of vehicles that can be reasonably expected to pass over a given section of a lane or a roadway in a given time period.

CHANNELIZATION: The separation or regulation of conflicting traffic movements into definite paths of travel by the use of pavement markings, raised islands, or other suitable means to facilitate the safe and orderly movements of both vehicles and pedestrians.

CLEARANCE INTERVAL: Nearly same as yellow time. If there is an all red interval after the end of a yellow, then that is also added into the clearance interval.

CONTROL DELAY: The component of delay, typically expressed in seconds per vehicle, resulting from the type of traffic control at an intersection. Control delay is measured by comparison with the uncontrolled condition; it includes delay incurred by slowing down, stopping/waiting, and speeding up.

CORDON: An imaginary line around an area across which vehicles, persons, or other items are counted (in and out).

CORNER SIGHT DISTANCE: The minimum sight distance required by the driver of a vehicle to cross or enter the lanes of the major roadway without requiring approaching traffic travelling at a given speed to radically alter their speed or trajectory. Corner sight distance is measured from the driver's eye at 42 inches above the pavement to an object height of 36 inches above the pavement in the center of the nearest approach lane.

CYCLE LENGTH: The time period in seconds required for a traffic signal to complete one full cycle of indications.

CUL-DE-SAC: A local street open at one end only and with special provisions for turning around.

DAILY CAPACITY: A theoretical value representing the daily traffic volume that will typically result in a peak hour volume equal to the capacity of the roadway.

DELAY: The time consumed while traffic is impeded in its movement by some element over which it has no control, usually expressed in seconds per vehicle.

DEMAND RESPONSIVE SIGNAL: Same as traffic-actuated signal.

DENSITY: The number of vehicles occupying in a unit length of the through traffic lanes of a roadway at any given instant. Usually expressed in vehicles per mile.

DETECTOR: A device that responds to a physical stimulus and transmits a resulting impulse to the signal controller.

DESIGN SPEED: A speed selected for purposes of design. Features of a highway, such as curvature, superelevation, and sight distance (upon which the safe operation of vehicles is dependent) are correlated to design speed.

DIRECTIONAL SPLIT: The percent of traffic in the peak direction at any point in time.

DIVERSION: The rerouting of peak hour traffic to avoid congestion.

FORCED FLOW: Opposite of free flow.

FREE FLOW: Volumes are well below capacity. Vehicles can maneuver freely and travel is unimpeded by other traffic.

GAP: Time or distance between successive vehicles in a traffic stream, rear bumper to front bumper.

HEADWAY: Time or distance spacing between successive vehicles in a traffic stream, front bumper to front bumper.

INTERCONNECTED SIGNAL SYSTEM: A number of intersections that are connected to achieve signal progression.

LEVEL OF SERVICE: A qualitative measure of a number of factors, which include speed and travel time, traffic interruptions, freedom to maneuver, safety, driving comfort and convenience, and operating costs.

LOOP DETECTOR: A vehicle detector consisting of a loop of wire embedded in the roadway, energized by alternating current and producing an output circuit closure when passed over by a vehicle.

MINIMUM ACCEPTABLE GAP: Smallest time headway between successive vehicles in a traffic stream into which another vehicle is willing and able to cross or merge.

MULTI-MODAL: More than one mode; such as automobile, bus transit, rail rapid transit, and bicycle transportation modes.

OFFSET: The time interval in seconds between the beginning of green at one intersection and the beginning of green at an adjacent intersection.

PLATOON: A closely grouped component of traffic that is composed of several vehicles moving, or standing ready to move, with clear spaces ahead and behind.

PASSENGER CAR EQUIVALENT (PCE): A metric used to assess the impact of larger vehicles, such as trucks, recreational vehicles, and buses, by converting the traffic volume of larger vehicles to an equivalent number of passenger cars.

PEAK HOUR: The 60 consecutive minutes with the highest number of vehicles.

PRETIMED SIGNAL: A type of traffic signal that directs traffic to stop and go on a predetermined time schedule without regard to traffic conditions. Also, fixed time signal.

PROGRESSION: A term used to describe the progressive movement of traffic through several signalized intersections.

QUEUE: The number of vehicles waiting at a service area such as a traffic signal, stop sign, or access gate.

QUEUE LENGTH: The length of vehicle queue, typically expressed in feet, waiting at a service area such as a traffic signal, stop sign, or access gate.

SCREEN-LINE: An imaginary line or physical feature across which all trips are counted, normally to verify the validity of mathematical traffic models.

SHARED/RECIPROCAL PARKING AGREEMENT: A written binding document executed between property owners to provide a designated number of off-street parking stalls within a designated area to be available for specified businesses or land uses.

SIGHT DISTANCE: The continuous length of roadway visible to a driver or roadway user.

SIGNAL CYCLE: The time period in seconds required for one complete sequence of signal indications.

SIGNAL PHASE: The part of the signal cycle allocated to one or more traffic movements.

STACKING DISTANCE: The length of area available behind a service area, such as a traffic signal or gate, for vehicle queueing to occur.

STARTING DELAY: The delay experienced in initiating the movement of queued traffic from a stop to an average running speed through an intersection.

STOPPING SIGHT DISTANCE: The minimum distance required by the driver of a vehicle on the major roadway travelling at a given speed to bring the vehicle to a stop after an object on the road becomes visible. Stopping sight distance is measured from the driver's eye at 42 inches above the pavement to an object height of 6 inches above the pavement.

TRAFFIC-ACTUATED SIGNAL: A type of traffic signal that directs traffic to stop and go in accordance with the demands of traffic, as registered by the actuation of detectors.

TRIP: The movement of a person or vehicle from one location (origin) to another (destination). For example, from home to store to home is two trips, not one.

TRIP-END: One end of a trip at either the origin or destination (i.e., each trip has two trip-ends). A trip-end occurs when a person, object, or message is transferred to or from a vehicle.

TRIP GENERATION RATE: The quantity of trips produced and/or attracted by a specific land use stated in terms of units such as per dwelling, per acre, and per 1,000 square feet of floor space.

TRUCK: A vehicle having dual tires on one or more axles, or having more than two axles.

TURNING RADIUS: The circular arc formed by the smallest turning path radius of the front outside tire of a vehicle, such as that performed by a U-turn maneuver. This is based on the length and width of the wheel base as well as the steering mechanism of the vehicle.

UNBALANCED FLOW: Heavier traffic flow in one direction than the other. On a daily basis, most facilities have balanced flow. During the peak hours, flow is seldom balanced in an urban area.

VEHICLE MILES OF TRAVEL: A measure of the amount of usage of a section of highway, obtained by multiplying the average daily traffic by length of facility in miles.

APPENDIX B

SCOPING AGREEMENT

Your Trusted Advisors for
Transportation & Environmental Analysis

SCOPING DOCUMENT

TO: Daniel Co, Assistant Engineer | CITY OF IRWINDALE

FROM: Giancarlo Ganddini | GANDDINI GROUP, INC.

DATE: October 29, 2018

SUBJECT: 5010 Azusa Canyon Road Traffic Study Scope of Work
18-0152

INTRODUCTION

The purpose of this traffic study scope of work is to outline the proposed traffic analysis parameters and assumptions for the 5010 Azusa Canyon Road project for review/concurrence by City of Irwindale staff.

PROJECT DESCRIPTION

Figure 1 shows the project location map. The project site is located at 5010 Azusa Canyon Road in the City of Irwindale. The project site is currently developed and occupied by a communications service yard that will be displaced by the proposed project.

The proposed project involves the construction of two industrial buildings totaling approximately 233,987 square feet. Two existing full access driveways will be maintained at Azusa Canyon Road. The proposed site plan is illustrated on Figure 2.

PROJECT TRIP GENERATION & DISTRIBUTION

Table 1 shows the project trip generation based upon rates obtained from the Institute of Transportation Engineers (ITE), Trip Generation Manual, 10th Edition, 2017 and vehicle mix percentages obtained from the City of Fontana, Truck Trip Generation Study, August 2003. Truck trips were converted into Passenger Car Equivalent (PCE) trips based on factors recommended by the County of San Bernardino Congestion Management Program.

As shown in 1, the proposed project is forecast to generate approximately 1,473 daily PCE trips, including 212 PCE trips during the AM peak hour and 188 PCE trips during the PM peak hour, prior to accounting for existing site-generated trips that will be displaced. As shown in Table 2, trips generated by the existing site will be measured by conducting 24-hour counts at the existing project site driveways. The final project trip generation will be based on the net difference in trips generated between the existing use and the proposed project.

Figures 3 and 4 illustrate the forecast directional distribution patterns of project-generated cars and trucks. The forecast project trip distributions were determined based on review of existing traffic volume data, surrounding land uses, and the local and regional roadway facilities in the project vicinity. Figure 5 shows the project two-way peak hour trip contribution.

STUDY AREA

The study area is proposed to consist of the following 13 study intersections based on those intersections at which the project is forecast to contribute 50 trips during either the AM or PM peak hours:

Study Intersections	Jurisdiction
1. I-605 Southbound Ramps (NS) at Live Oak Avenue (EW)	Caltrans
2. Graham Access Road (NS) at Live Oak Avenue (EW)	Irwindale
3. Live Oak Lane (NS) at Live Oak Avenue (EW)	Irwindale
4. Rivergrade Road (NS) at Live Oak Avenue (EW)	Irwindale /Baldwin Park
5. Stewart Avenue (NS) at Live Oak Avenue (EW)	Irwindale/Baldwin Park
6. Baldwin Park Boulevard (NS) at Live Oak Avenue (EW)	Irwindale/Baldwin Park
7. Arrow Highway (NS) at Live Oak Avenue (EW)	Irwindale/~~Baldwin Park~~
8. Maine Avenue (NS) at Arrow Highway (EW)	Irwindale/Baldwin Park
9. Azusa Canyon Road (NS) at Arrow Highway (EW)	Irwindale/~~Baldwin Park~~
10. Azusa Canyon Road (NS) at Sandstone Street (EW)	Irwindale/Baldwin Park
11. Azusa Canyon Road (NS) at Nubia Street (EW)	Irwindale/Baldwin Park
12. 4th Street (NS) at Arrow Highway (EW)	Irwindale
13. Irwindale Avenue (NS) at Arrow Highway (EW)	Irwindale
14. I-605 Northbound Offramp at Live Oak Ave (Eastbound)	Caltrans

The unsignalized I-605 Northbound Off-Ramp to westbound Live Oak Avenue is omitted since the proposed project will not contribute trips to the off-ramp; instead, project trips are forecast to use the I-605 Northbound Off-Ramp to eastbound Live Oak Avenue only.

ANALYSIS SCENARIOS

The traffic study shall evaluate the following analysis scenarios for typical weekday AM and PM peak hour conditions:

- Existing
- Existing Plus Project
- Future Baseline
- Future Baseline Plus Project
- Future Baseline Plus Cumulative
- Future Baseline Plus Cumulative Plus Project

Any of the above "Plus Project" scenarios will also be analyzed with mitigation measure improvements, as needed.

TRAFFIC COUNTS

New intersection turning movement counts will be collected at the study intersections during the morning peak period (7:00 AM – 9:00 AM) and evening peak period (4:00 PM – 6:00 PM) on a typical weekday (Tuesday, Wednesday, or Thursday) while local schools are in session. The intersection turning movement counts will separate cars vs. trucks by axle and will be converted to PCE trips.

Additional 24-hour approach counts will be conducted at the intersection of Azusa Canyon Road/Nubia Street for signal warrant analysis.

ANALYSIS METHODOLOGY

The signalized study intersections shall by analyzed using the Intersection Capacity Utilization methodology in accordance with the parameters and impact thresholds prescribed in the City of Irwindale Policy Guidelines for Traffic Impact Reports (December 30, 2014). Shared intersections between the City of Irwindale and the City of Baldwin Park shall be be analyzed in accordance with the guidelines of both agencies.
The unsignalized study intersections and intersections under the jurisdiction of California Department of Transportation (Caltrans) shall be analyzed using the Highway Capacity Manual intersection delay methodology (6th Edition, Transportation Research Board).

Thresholds of Significance

The following thresholds shall be used when evaluating study intersections under the jurisdiction of City of Irwindale:

- When a signalized intersection operates at Level of Service D or better under existing or future baseline conditions and the addition of the project trips degrades the intersection operations to Level of Service E or F. The project mitigation should bring the facility to operate at Level of Service D at minimum.

- When a signalized intersection operates at Level of Service E or better under existing or future baseline conditions and the addition of project trips degrades the intersection operations to Level of Service F or increases the V/C by 0.02 or greater. The project mitigation should bring the facility to operate at Level of Service E at minimum.

- When a signalized intersection operates at Level of Service F under existing or future baseline conditions and the addition of more than 50 peak hour project trips contributes to the continuing operational failure at the intersection or increases the V/C by 0.02 or greater. The project mitigation should bring the facility to pre-project conditions, which typically are defined as existing conditions.

- At an unsignalized intersection, when the minor stop-controlled approach operates at Level of Service F and does not have acceptable operation in terms of total control delay, and the addition of project trips increases the total control delay to more than 4.0 vehicle hours for a single lane approach or 5.0 vehicle hours for a multilane approach. The project mitigation should bring the facility to operate at Level of Service E minimum or to bring the total control delay to less than 4.0 vehicle hours for a single lane approach or 5.0 vehicle hours for a multilane approach at a minimum.

- At an unsignalized intersection, when the minor stop-controlled approach operates at Level of Service F and does not have an acceptable operation in terms of total control delay, and the addition of more than 50 peak hour project trips contributes to the continuing operational failure at the minor approach. The project mitigation should bring the facility to pre-project or existing conditions.

Caltrans Threshold

As stated in the Guide for the Preparation of Traffic Impact Studies (State of California, 2002), "Caltrans endeavors to maintain a target LOS [Level of Service] at the transition between LOS "C" and LOS "D" on State

highway facilities". The California Department of Transportation acknowledges this may not always be feasible and recommends consultation with the California Department of Transportation to determine the appropriate target Level of Service. For consistency with the County of Los Angeles Congestion Management Plan criteria used for freeway mainline sections and freeway ramps local requirements, Level of Service E shall be the minimum acceptable Level of Service for State Highway facilities. An impact is considered significant if the project causes or worsens Level of Service F.

SIGNAL WARRANT

A signal warrant analysis will be conducted at the intersection of Azusa Canyon Road/Nubia Street. The signal warrant analysis shall evaluate Warrants 1-3 (8-hour, 4-hour, and Peak Hour volume warrants) and Warrant 5 (crash experience warrant) in accordance with the California Manual on Uniform Traffic Control devices.

CONCLUSION

We appreciate the opportunity to provide this proposed scope of work for your review. Should you have any questions or comments regarding the proposed scope, please contact me at (714) 795-3100 x 101.

Table 1
Project Trip Generation

Land Use	Source	Units[2]	Trip Generation Rates[1]						
			AM Peak Hour			PM Peak Hour			
			In %	Out %	Total	In %	Out %	Total	Daily
General Light Industrial	ITE 110	TSF	88%	12%	0.70	13%	87%	0.63	4.96

Land Use	Quantity	Vehicle Trips Generated						
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	Daily
General Light Industrial	233.987 TSF	144	20	164	19	128	147	1,161
Vehicle Mix	Percent[3]							
Cars	78.6%	113	16	129	15	101	116	913
2-Axle Trucks	8.0%	12	2	14	2	10	12	93
3-Axle Trucks	3.9%	6	1	7	1	5	6	45
4+ Axle Trucks	9.5%	14	2	16	2	12	14	110
Trucks Subtotal	21.4%	32	5	37	5	27	32	248

Vehicle Type	PCE Factor[4]	PCE Trips Generated						
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	Daily
Cars	1.0	113	16	129	15	101	116	913
2-Axle Trucks	1.5	18	3	21	3	15	18	140
3-Axle Trucks	2.0	12	2	14	2	10	12	90
4+ Axle Trucks	3.0	42	6	48	6	36	42	330
Trucks Subtotal	-	72	11	83	11	61	72	560
TOTAL PCE TRIPS GENERATED		**185**	**27**	**212**	**26**	**162**	**188**	**1,473**

Notes:

(1) Source: ITE = Institute of Transportation Engineers, Trip Generation Manual, 10th Edition, 2017.

(2) TSF = Thousand Square Feet

(3) City of Fontana, Truck Trip Generation Study, August 2003.

(4) PCE = Passenger Car Equivelant; PCE factors recommended by San Bernardino County Congestion Management Program.

Table 2
Net Project Trip Generation

Land Use	Quantity[1]	Trips Generated						
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	Daily
Existing Use to be Displaced								
Service Yard	10 AC	TBD[2]	TBD	TBD	TBD	TBD	TBD	TBD
Proposed Project								
General Light Industrial (in PCE)	233.987 TSF	185	27	212	26	162	188	1,473
NET PROJECT TRIP GENERATION		**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**	**TBD**

Notes:

(1) AC = Acres; TSF = Thousand Square Feet

(2) TBD = To Be Determined; trips generated by the existing site will be measured by conducting 24-hour counts at the existing driveways. The final project trip generation will be based on the net difference in trips generated between the existing use and the proposed project.

Legend

(#) Study Intersection

Figure 1
Project Location Map

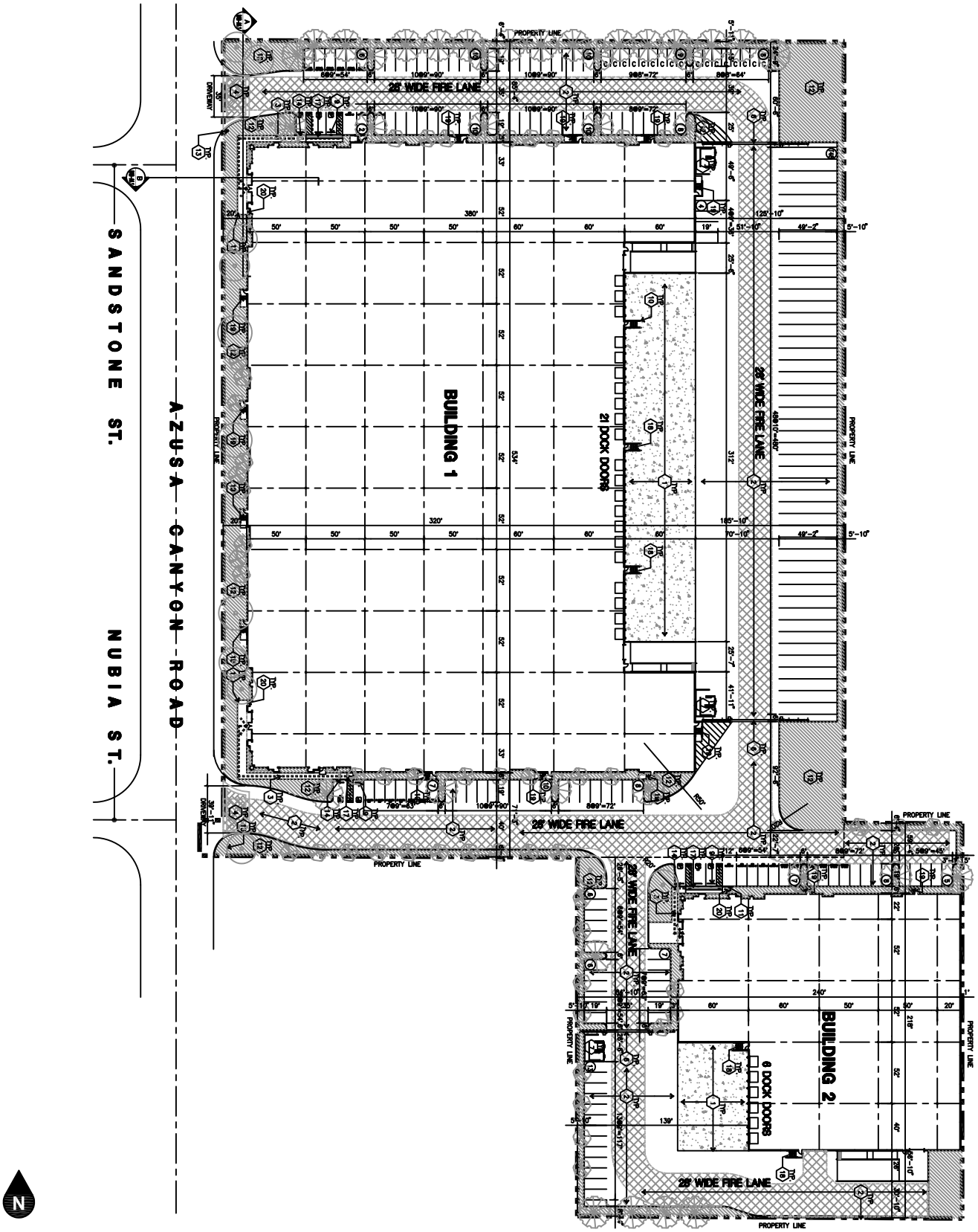
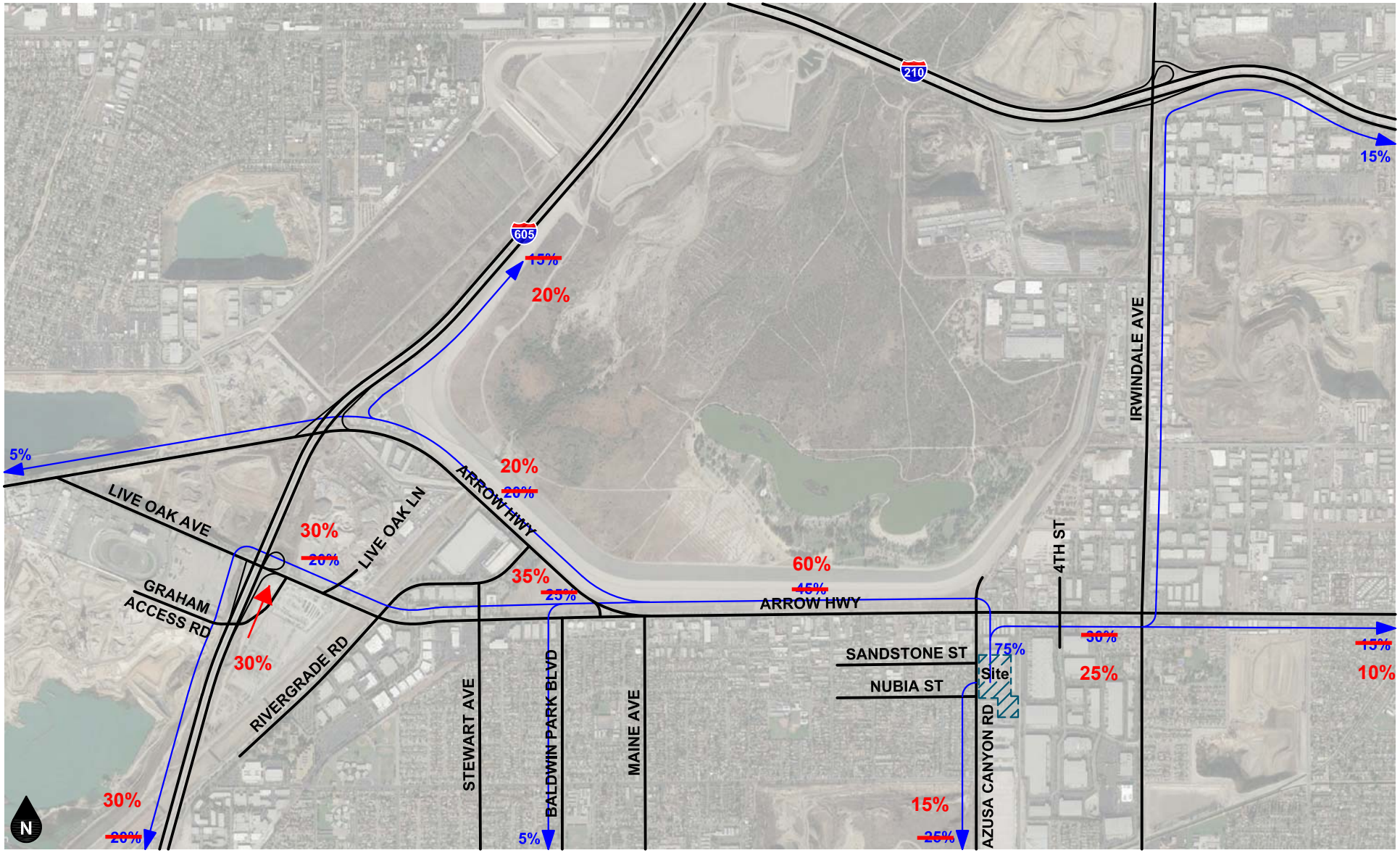


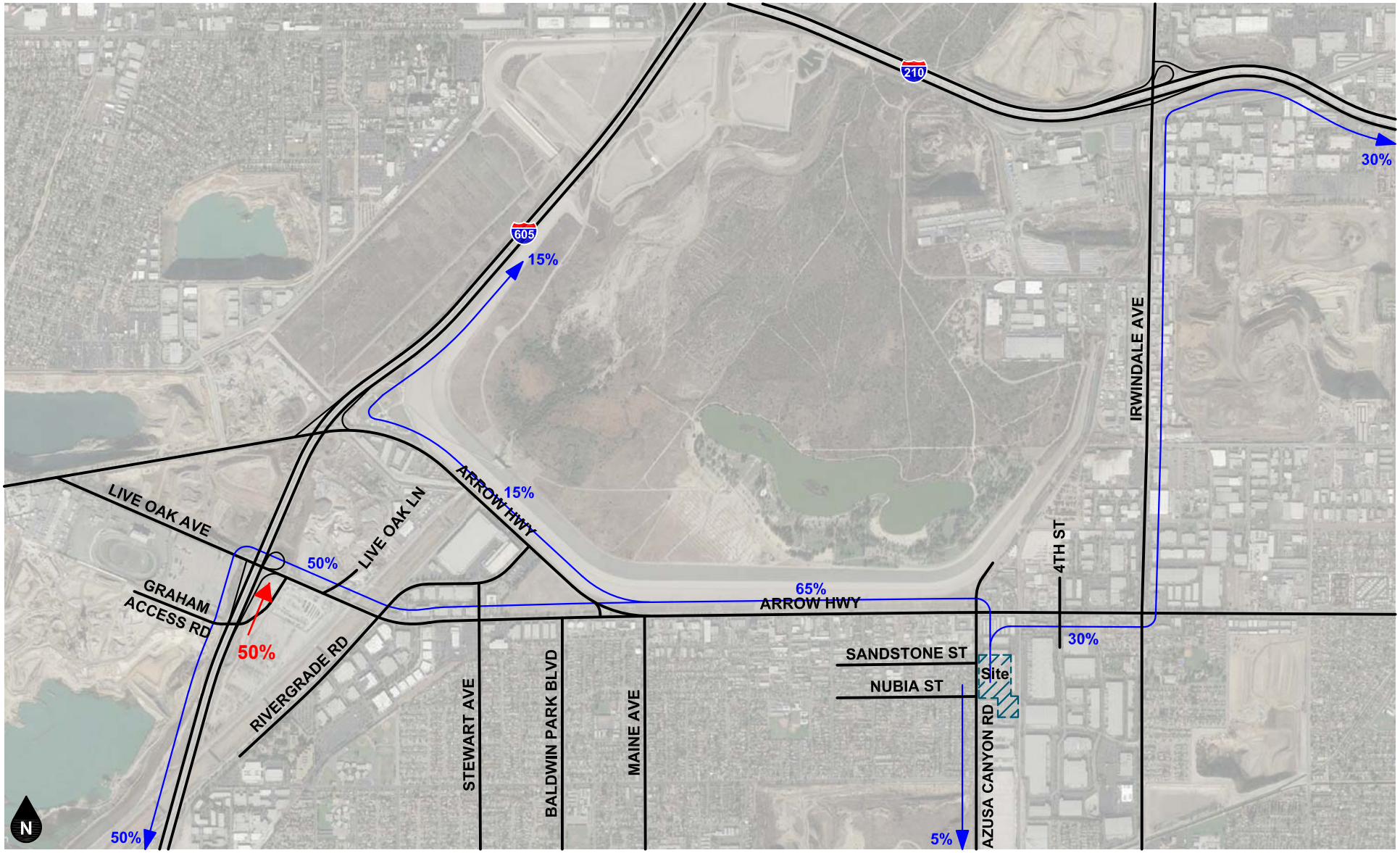
Figure 2
Site Plan



Legend

10% Percent To/From Project

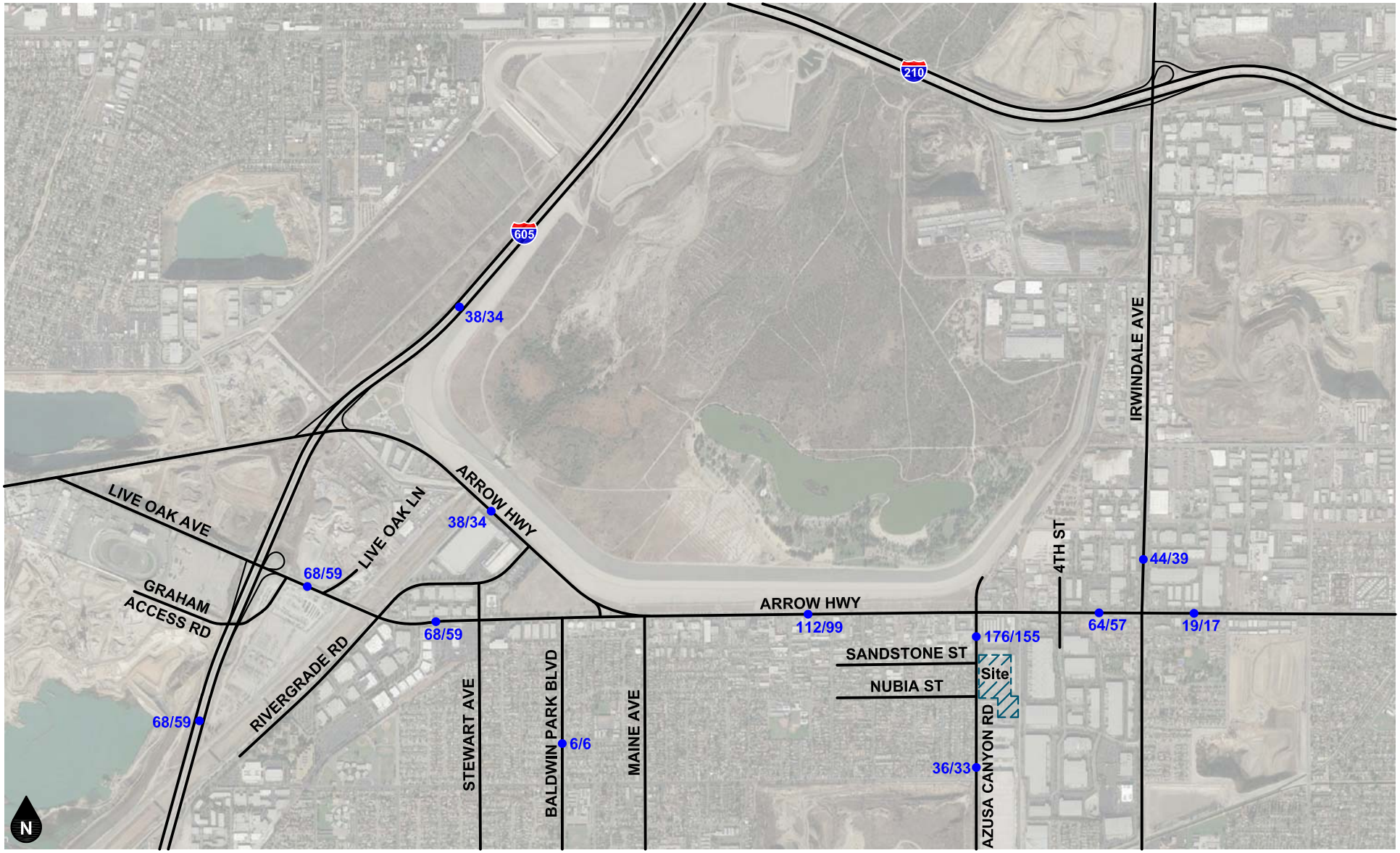
Figure 3
Project Trip Distribution - Cars



Legend

10% Percent To/From Project

Figure 4
Project Trip Distribution - Trucks



Legend

● #/# AM/PM Peak Hour Trips (Two-Way)

Figure 5
Project Trip Contribution Test

APPENDIX C

VOLUME COUNT WORKSHEETS

Counts Unlimited
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Irwindale
N/S: I-605 Southbound On Ramp
E/W: Live Oak Avenue
Weather: Clear

File Name : 01_IRW_605S_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	147	282	429	0	0	0	36	94	130	559
07:15 AM	160	326	486	0	0	0	54	139	193	679
07:30 AM	97	320	417	0	0	0	49	97	146	563
07:45 AM	71	289	360	0	0	0	113	99	212	572
Total	475	1217	1692	0	0	0	252	429	681	2373
08:00 AM	78	258	336	0	0	0	73	124	197	533
08:15 AM	124	260	384	0	0	0	73	121	194	578
08:30 AM	94	260	354	0	0	0	95	124	219	573
08:45 AM	87	215	302	0	0	0	88	111	199	501
Total	383	993	1376	0	0	0	329	480	809	2185
Grand Total	858	2210	3068	0	0	0	581	909	1490	4558
Apprch %	28	72		0	0		39	61		
Total %	18.8	48.5	67.3	0	0	0	12.7	19.9	32.7	
Passenger Vehicles	642	1973	2615	0	0	0	517	753	1270	3885
% Passenger Vehicles	74.8	89.3	85.2	0	0	0	89	82.8	85.2	85.2
Large 2 Axle Vehicles	67	113	180	0	0	0	36	42	78	258
% Large 2 Axle Vehicles	7.8	5.1	5.9	0	0	0	6.2	4.6	5.2	5.7
3 Axle Vehicles	74	46	120	0	0	0	15	37	52	172
% 3 Axle Vehicles	8.6	2.1	3.9	0	0	0	2.6	4.1	3.5	3.8
4+ Axle Trucks	75	78	153	0	0	0	13	77	90	243
% 4+ Axle Trucks	8.7	3.5	5	0	0	0	2.2	8.5	6	5.3

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	147	282	429	0	0	0	36	94	130	559
07:15 AM	**160**	**326**	**486**	0	0	0	54	**139**	193	**679**
07:30 AM	97	320	417	0	0	0	49	97	146	563
07:45 AM	71	289	360	0	0	0	**113**	99	**212**	572
Total Volume	475	1217	1692	0	0	0	252	429	681	2373
% App. Total	28.1	71.9		0	0		37	63		
PHF	.742	.933	.870	.000	.000	.000	.558	.772	.803	.874

Counts Unlimited
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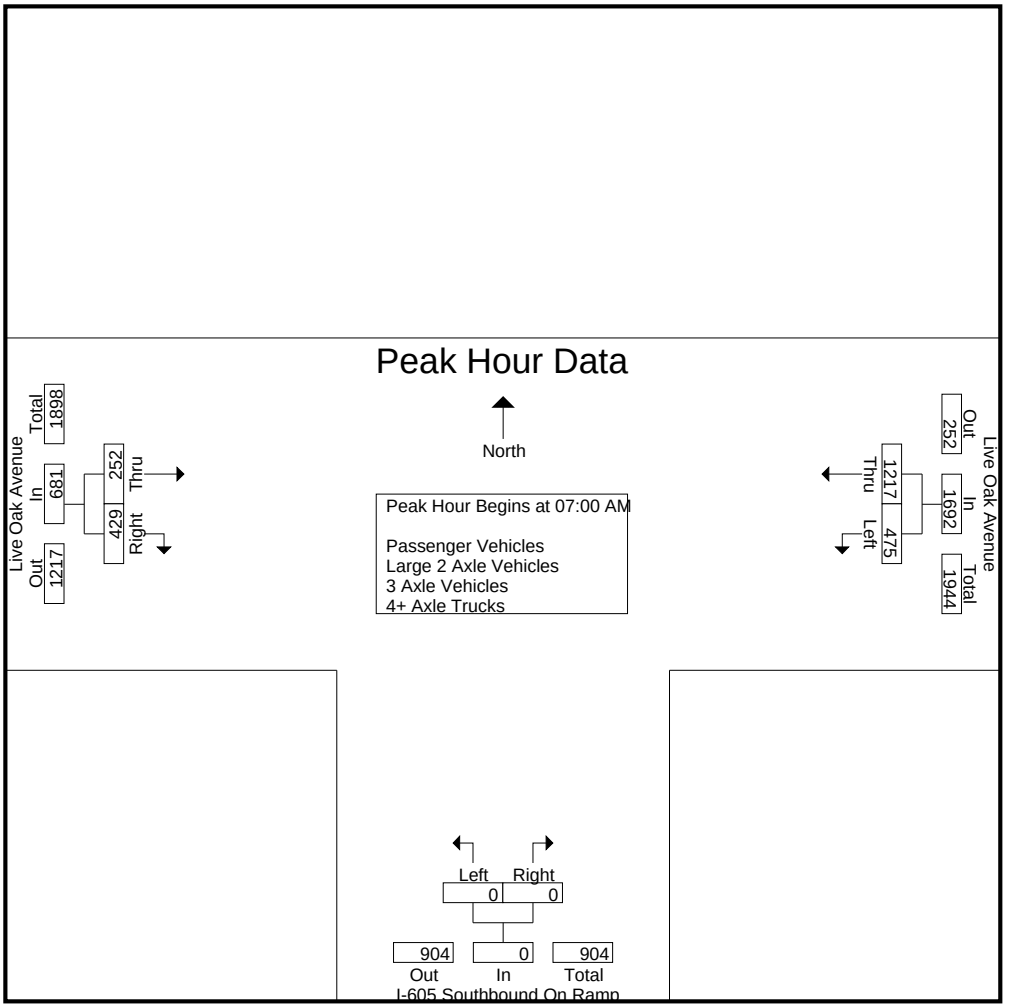
File Name : 01_IRW_605S_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:45 AM		
+0 mins.	147	282	429	0	0	0	**113**	99	212
+15 mins.	**160**	**326**	**486**	0	0	0	73	**124**	197
+30 mins.	97	320	417	0	0	0	73	121	194
+45 mins.	71	289	360	0	0	0	95	124	**219**
Total Volume	475	1217	1692	0	0	0	354	468	822
% App. Total	28.1	71.9		0	0		43.1	56.9	
PHF	.742	.933	.870	.000	.000	.000	.783	.944	.938

Counts Unlimited
PO Box 1178
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City of Irwindale
N/S: I-605 Southbound On Ramp
E/W: Live Oak Avenue
Weather: Clear

File Name : 01_IRW_605S_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018

Groups Printed- Passenger Vehicles

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	114	254	368	0	0	0	30	71	101	469
07:15 AM	121	301	422	0	0	0	45	121	166	588
07:30 AM	70	297	367	0	0	0	45	80	125	492
07:45 AM	52	262	314	0	0	0	102	84	186	500
Total	357	1114	1471	0	0	0	222	356	578	2049
08:00 AM	55	232	287	0	0	0	70	109	179	466
08:15 AM	100	221	321	0	0	0	68	101	169	490
08:30 AM	69	231	300	0	0	0	84	101	185	485
08:45 AM	61	175	236	0	0	0	73	86	159	395
Total	285	859	1144	0	0	0	295	397	692	1836
Grand Total	642	1973	2615	0	0	0	517	753	1270	3885
Apprch %	24.6	75.4		0	0		40.7	59.3		
Total %	16.5	50.8	67.3	0	0	0	13.3	19.4	32.7	

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	114	254	368	0	0	0	30	71	101	469
07:15 AM	**121**	**301**	**422**	0	0	0	45	**121**	166	**588**
07:30 AM	70	297	367	0	0	0	45	80	125	492
07:45 AM	52	262	314	0	0	0	**102**	84	**186**	500
Total Volume	357	1114	1471	0	0	0	222	356	578	2049
% App. Total	24.3	75.7		0	0		38.4	61.6		
PHF	.738	.925	.871	.000	.000	.000	.544	.736	.777	.871

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City of Irwindale
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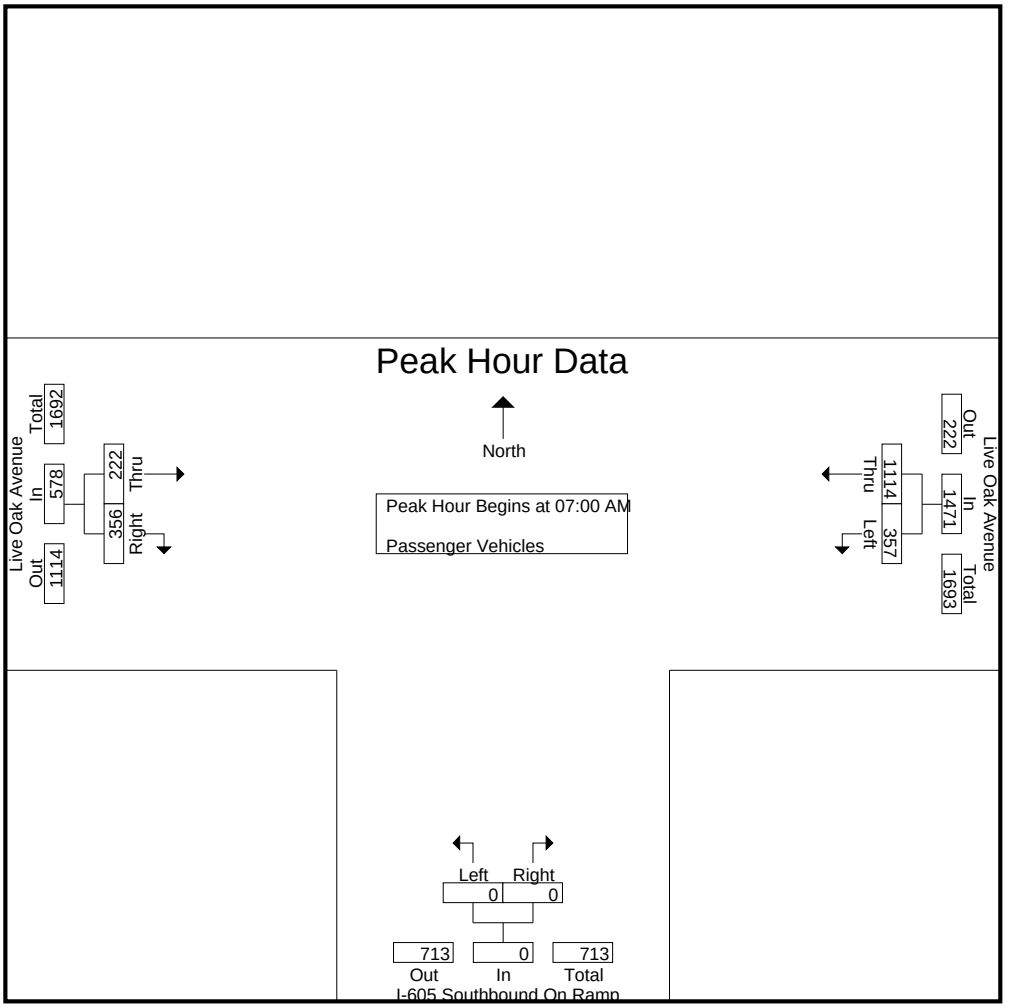
File Name : 01_IRW_605S_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	114	254	368	0	0	0	30	71	101
+15 mins.	**121**	**301**	**422**	0	0	0	45	**121**	166
+30 mins.	70	297	367	0	0	0	45	80	125
+45 mins.	52	262	314	0	0	0	**102**	84	**186**
Total Volume	357	1114	1471	0	0	0	222	356	578
% App. Total	24.3	75.7		0	0		38.4	61.6	
PHF	.738	.925	.871	.000	.000	.000	.544	.736	.777

Counts Unlimited
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Irwindale
N/S: I-605 Southbound On Ramp
E/W: Live Oak Avenue
Weather: Clear

File Name : 01_IRW_605S_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018

Groups Printed- Large 2 Axle Vehicles

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	16	17	33	0	0	0	4	8	12	45
07:15 AM	16	17	33	0	0	0	5	5	10	43
07:30 AM	7	20	27	0	0	0	2	6	8	35
07:45 AM	4	15	19	0	0	0	8	5	13	32
Total	43	69	112	0	0	0	19	24	43	155
08:00 AM	4	14	18	0	0	0	1	6	7	25
08:15 AM	5	12	17	0	0	0	4	6	10	27
08:30 AM	9	11	20	0	0	0	4	3	7	27
08:45 AM	6	7	13	0	0	0	8	3	11	24
Total	24	44	68	0	0	0	17	18	35	103
Grand Total	67	113	180	0	0	0	36	42	78	258
Apprch %	37.2	62.8		0	0		46.2	53.8		
Total %	26	43.8	69.8	0	0	0	14	16.3	30.2	

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	**16**	17	**33**	0	0	0	4	**8**	12	**45**
07:15 AM	16	17	33	0	0	0	5	5	10	43
07:30 AM	7	**20**	27	0	0	0	2	6	8	35
07:45 AM	4	15	19	0	0	0	**8**	5	**13**	32
Total Volume	43	69	112	0	0	0	19	24	43	155
% App. Total	38.4	61.6		0	0		44.2	55.8		
PHF	.672	.863	.848	.000	.000	.000	.594	.750	.827	.861

Counts Unlimited
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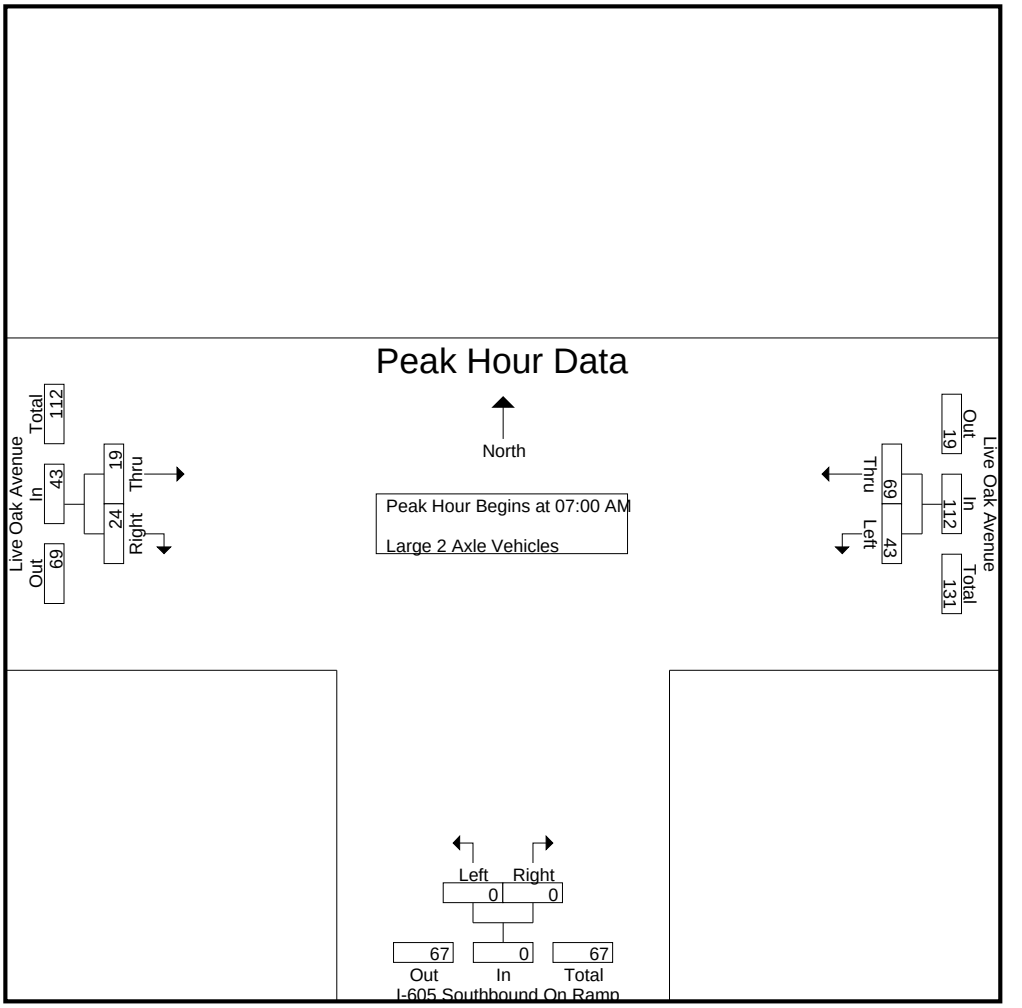
Start Date : 11/1/2018
Page No : 2



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	**16**	17	**33**	0	0	0	4	**8**	12
+15 mins.	16	17	33	0	0	0	5	5	10
+30 mins.	7	**20**	27	0	0	0	2	6	8
+45 mins.	4	15	19	0	0	0	**8**	5	**13**
Total Volume	43	69	112	0	0	0	19	24	43
% App. Total	38.4	61.6		0	0		44.2	55.8	
PHF	.672	.863	.848	.000	.000	.000	.594	.750	.827

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City of Irwindale
N/S: I-605 Southbound On Ramp
E/W: Live Oak Avenue
Weather: Clear

File Name : 01_IRW_605S_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018

Groups Printed- 3 Axle Vehicles

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	9	6	15	0	0	0	1	6	7	22
07:15 AM	9	2	11	0	0	0	3	4	7	18
07:30 AM	11	1	12	0	0	0	1	5	6	18
07:45 AM	10	5	15	0	0	0	1	3	4	19
Total	39	14	53	0	0	0	6	18	24	77
08:00 AM	10	5	15	0	0	0	0	3	3	18
08:15 AM	8	11	19	0	0	0	1	4	5	24
08:30 AM	8	4	12	0	0	0	4	7	11	23
08:45 AM	9	12	21	0	0	0	4	5	9	30
Total	35	32	67	0	0	0	9	19	28	95
Grand Total	74	46	120	0	0	0	15	37	52	172
Apprch %	61.7	38.3		0	0		28.8	71.2		
Total %	43	26.7	69.8	0	0	0	8.7	21.5	30.2	

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	9	**6**	**15**	0	0	0	1	**6**	**7**	**22**
07:15 AM	9	2	11	0	0	0	**3**	4	7	18
07:30 AM	**11**	1	12	0	0	0	1	5	6	18
07:45 AM	10	5	15	0	0	0	1	3	4	19
Total Volume	39	14	53	0	0	0	6	18	24	77
% App. Total	73.6	26.4		0	0		25	75		
PHF	.886	.583	.883	.000	.000	.000	.500	.750	.857	.875

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City of Irwindale
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File Name : 01_IRW_605S_Live Oak AM
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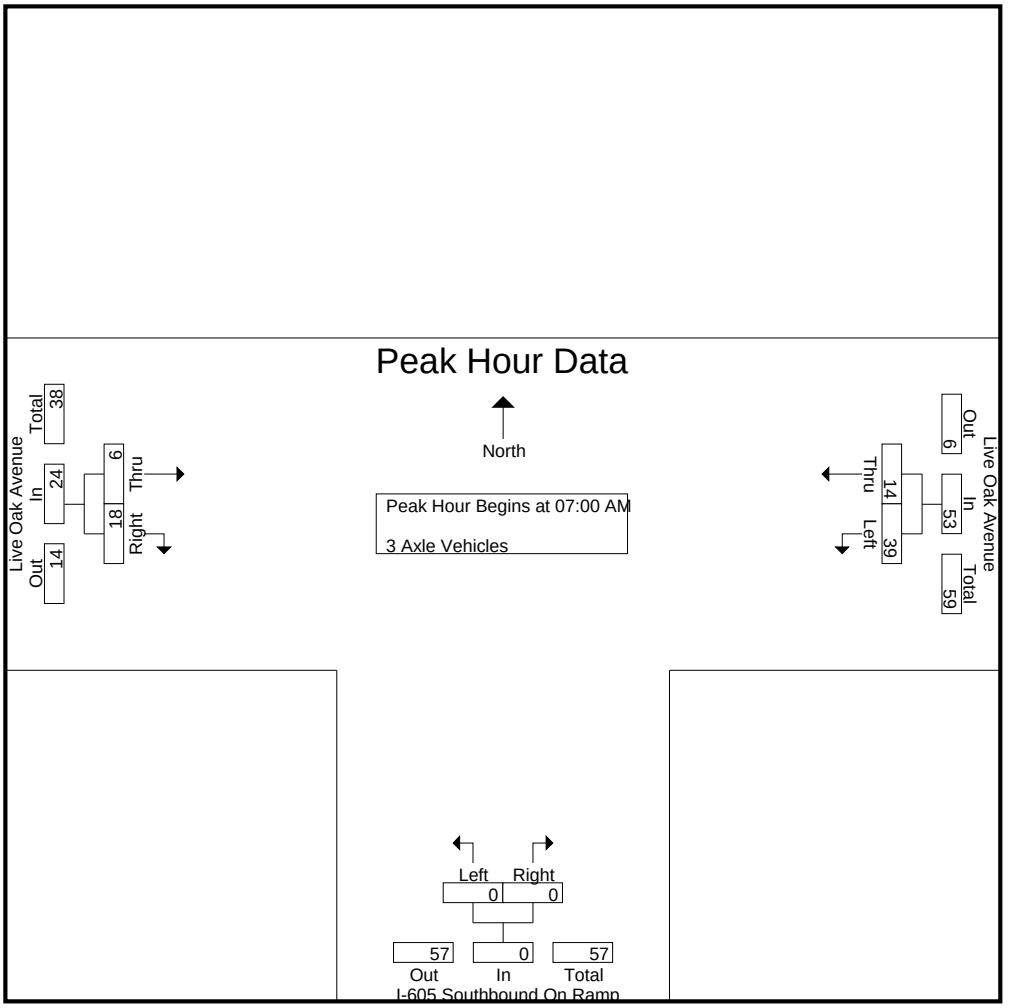

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	9	**6**	**15**	0	0	0	1	**6**	**7**
+15 mins.	9	2	11	0	0	0	**3**	4	7
+30 mins.	**11**	1	12	0	0	0	1	5	6
+45 mins.	10	5	15	0	0	0	1	3	4
Total Volume	39	14	53	0	0	0	6	18	24
% App. Total	73.6	26.4		0	0		25	75	
PHF	.886	.583	.883	.000	.000	.000	.500	.750	.857

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City of Irwindale
N/S: I-605 Southbound On Ramp
E/W: Live Oak Avenue
Weather: Clear

File Name : 01_IRW_605S_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018

Groups Printed- 4+ Axle Trucks

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	8	5	13	0	0	0	1	9	10	23
07:15 AM	14	6	20	0	0	0	1	9	10	30
07:30 AM	9	2	11	0	0	0	1	6	7	18
07:45 AM	5	7	12	0	0	0	2	7	9	21
Total	36	20	56	0	0	0	5	31	36	92
08:00 AM	9	7	16	0	0	0	2	6	8	24
08:15 AM	11	16	27	0	0	0	0	10	10	37
08:30 AM	8	14	22	0	0	0	3	13	16	38
08:45 AM	11	21	32	0	0	0	3	17	20	52
Total	39	58	97	0	0	0	8	46	54	151
Grand Total	75	78	153	0	0	0	13	77	90	243
Apprch %	49	51		0	0		14.4	85.6		
Total %	30.9	32.1	63	0	0	0	5.3	31.7	37	

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	8	5	13	0	0	0	1	**9**	**10**	23
07:15 AM	**14**	6	**20**	0	0	0	1	9	10	**30**
07:30 AM	9	2	11	0	0	0	1	6	7	18
07:45 AM	5	**7**	12	0	0	0	**2**	7	9	21
Total Volume	36	20	56	0	0	0	5	31	36	92
% App. Total	64.3	35.7		0	0		13.9	86.1		
PHF	.643	.714	.700	.000	.000	.000	.625	.861	.900	.767

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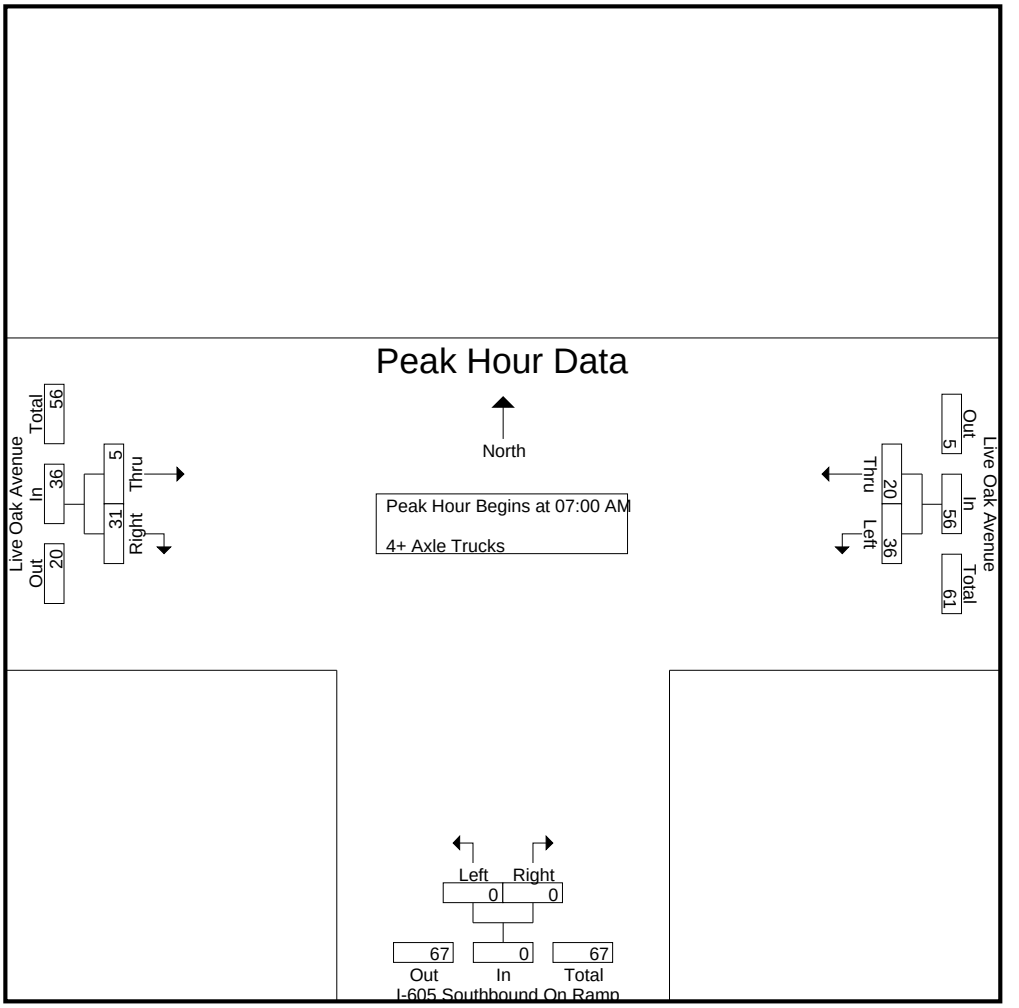

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	8	5	13	0	0	0	1	**9**	**10**
+15 mins.	**14**	6	**20**	0	0	0	1	9	10
+30 mins.	9	2	11	0	0	0	1	6	7
+45 mins.	5	**7**	12	0	0	0	**2**	7	9
Total Volume	36	20	56	0	0	0	5	31	36
% App. Total	64.3	35.7		0	0		13.9	86.1	
PHF	.643	.714	.700	.000	.000	.000	.625	.861	.900

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City of Irwindale
N/S: I-605 Southbound On Ramp
E/W: Live Oak Avenue
Weather: Clear

File Name : 01_IRW_605S_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	109	170	279	0	0	0	241	233	474	753
04:15 PM	132	180	312	0	0	0	250	213	463	775
04:30 PM	154	179	333	0	0	0	215	254	469	802
04:45 PM	115	185	300	0	0	0	305	245	550	850
Total	510	714	1224	0	0	0	1011	945	1956	3180
05:00 PM	146	209	355	0	0	0	277	302	579	934
05:15 PM	147	222	369	0	0	0	299	308	607	976
05:30 PM	115	219	334	0	0	0	280	306	586	920
05:45 PM	129	184	313	0	0	0	251	260	511	824
Total	537	834	1371	0	0	0	1107	1176	2283	3654
Grand Total	1047	1548	2595	0	0	0	2118	2121	4239	6834
Apprch %	40.3	59.7		0	0		50	50		
Total %	15.3	22.7	38	0	0	0	31	31	62	
Passenger Vehicles	980	1429	2409	0	0	0	2040	2000	4040	6449
% Passenger Vehicles	93.6	92.3	92.8	0	0	0	96.3	94.3	95.3	94.4
Large 2 Axle Vehicles	30	45	75	0	0	0	59	71	130	205
% Large 2 Axle Vehicles	2.9	2.9	2.9	0	0	0	2.8	3.3	3.1	3
3 Axle Vehicles	11	30	41	0	0	0	9	21	30	71
% 3 Axle Vehicles	1.1	1.9	1.6	0	0	0	0.4	1	0.7	1
4+ Axle Trucks	26	44	70	0	0	0	10	29	39	109
% 4+ Axle Trucks	2.5	2.8	2.7	0	0	0	0.5	1.4	0.9	1.6

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	115	185	300	0	0	0	**305**	245	550	850
05:00 PM	146	209	355	0	0	0	277	302	579	934
05:15 PM	**147**	**222**	**369**	0	0	0	299	**308**	**607**	**976**
05:30 PM	115	219	334	0	0	0	280	306	586	920
Total Volume	523	835	1358	0	0	0	1161	1161	2322	3680
% App. Total	38.5	61.5		0	0		50	50		
PHF	.889	.940	.920	.000	.000	.000	.952	.942	.956	.943

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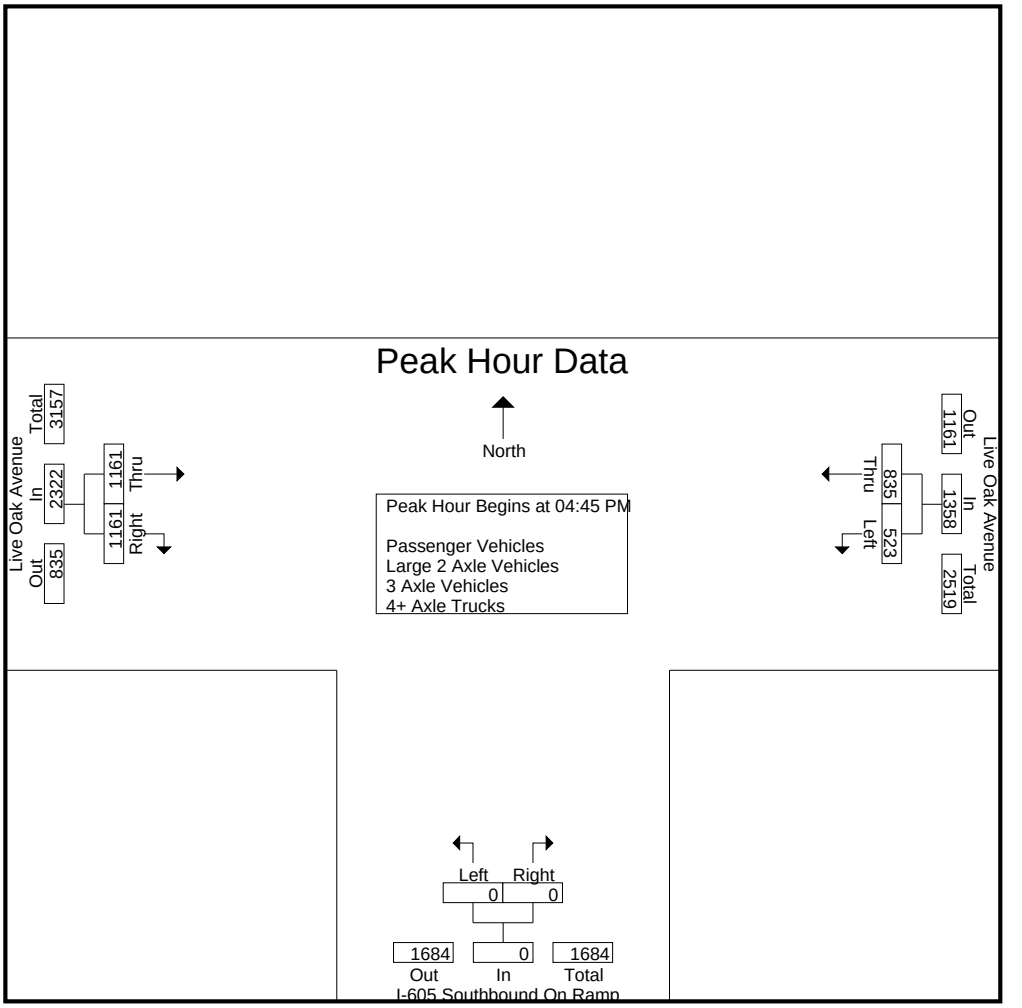

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			04:00 PM			04:45 PM		
+0 mins.	146	209	355	0	0	0	**305**	245	550
+15 mins.	**147**	**222**	**369**	0	0	0	277	302	579
+30 mins.	115	219	334	0	0	0	299	**308**	**607**
+45 mins.	129	184	313	0	0	0	280	306	586
Total Volume	537	834	1371	0	0	0	1161	1161	2322
% App. Total	39.2	60.8		0	0		50	50	
PHF	.913	.939	.929	.000	.000	.000	.952	.942	.956

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City of Irwindale
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File Name : 01_IRW_605S_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Passenger Vehicles

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	96	146	242	0	0	0	226	212	438	680
04:15 PM	121	163	284	0	0	0	240	199	439	723
04:30 PM	141	159	300	0	0	0	202	239	441	741
04:45 PM	109	176	285	0	0	0	288	233	521	806
Total	467	644	1111	0	0	0	956	883	1839	2950
05:00 PM	141	195	336	0	0	0	270	282	552	888
05:15 PM	140	211	351	0	0	0	294	294	588	939
05:30 PM	113	205	318	0	0	0	276	297	573	891
05:45 PM	119	174	293	0	0	0	244	244	488	781
Total	513	785	1298	0	0	0	1084	1117	2201	3499
Grand Total	980	1429	2409	0	0	0	2040	2000	4040	6449
Apprch %	40.7	59.3		0	0		50.5	49.5		
Total %	15.2	22.2	37.4	0	0	0	31.6	31	62.6	

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	109	176	285	0	0	0	288	233	521	806
05:00 PM	**141**	195	336	0	0	0	270	282	552	888
05:15 PM	140	**211**	**351**	0	0	0	**294**	294	**588**	**939**
05:30 PM	113	205	318	0	0	0	276	**297**	573	891
Total Volume	503	787	1290	0	0	0	1128	1106	2234	3524
% App. Total	39	61		0	0		50.5	49.5		
PHF	.892	.932	.919	.000	.000	.000	.959	.931	.950	.938

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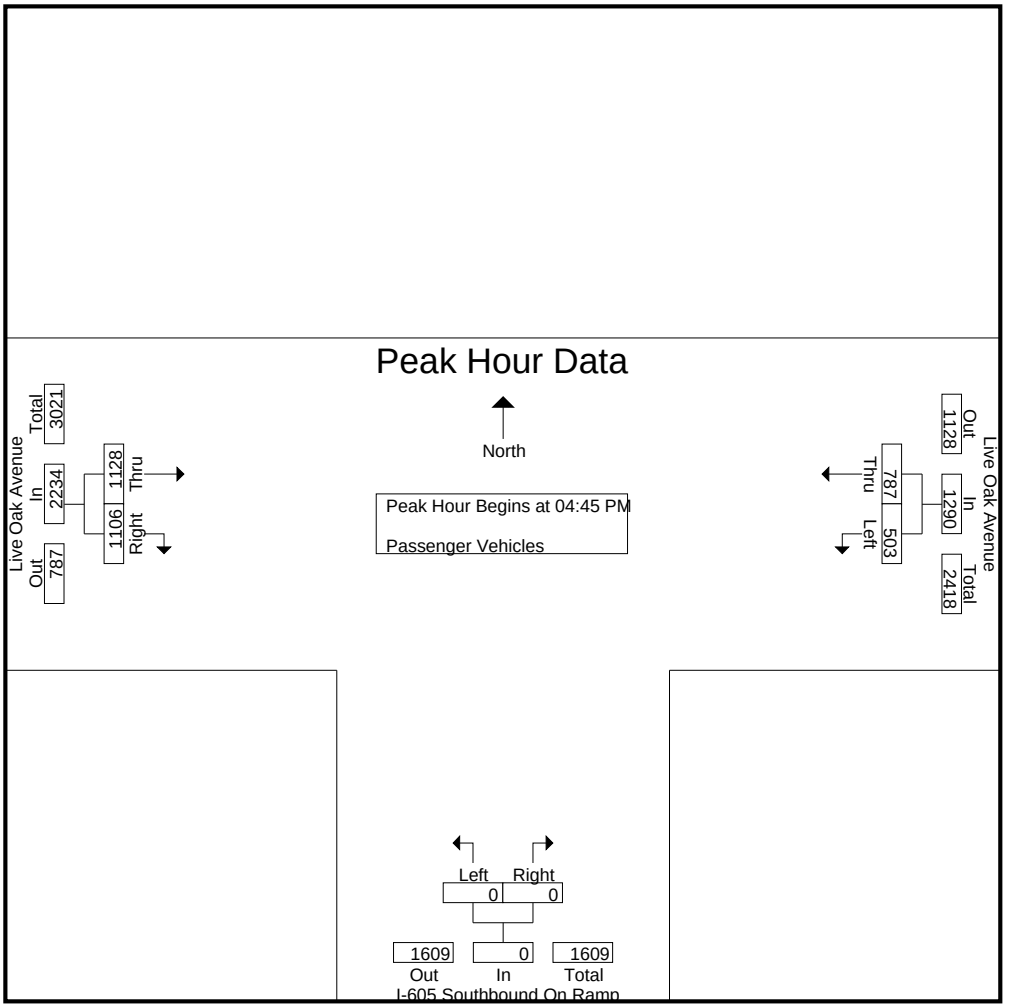

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	109	176	285	0	0	0	288	233	521
+15 mins.	**141**	195	336	0	0	0	270	282	552
+30 mins.	140	**211**	**351**	0	0	0	**294**	294	**588**
+45 mins.	113	205	318	0	0	0	276	**297**	573
Total Volume	503	787	1290	0	0	0	1128	1106	2234
% App. Total	39	61		0	0		50.5	49.5	
PHF	.892	.932	.919	.000	.000	.000	.959	.931	.950

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File Name : 01_IRW_605S_Live Oak PM
Site Code : 22518834
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Groups Printed- Large 2 Axle Vehicles

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	6	10	16	0	0	0	12	9	21	37
04:15 PM	2	6	8	0	0	0	6	5	11	19
04:30 PM	10	6	16	0	0	0	8	11	19	35
04:45 PM	3	6	9	0	0	0	15	8	23	32
Total	21	28	49	0	0	0	41	33	74	123
05:00 PM	1	6	7	0	0	0	5	13	18	25
05:15 PM	3	1	4	0	0	0	4	9	13	17
05:30 PM	0	4	4	0	0	0	4	5	9	13
05:45 PM	5	6	11	0	0	0	5	11	16	27
Total	9	17	26	0	0	0	18	38	56	82
Grand Total	30	45	75	0	0	0	59	71	130	205
Apprch %	40	60		0	0		45.4	54.6		
Total %	14.6	22	36.6	0	0	0	28.8	34.6	63.4	

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	**3**	**6**	**9**	0	0	0	**15**	8	**23**	**32**
05:00 PM	1	6	7	0	0	0	5	**13**	18	25
05:15 PM	3	1	4	0	0	0	4	9	13	17
05:30 PM	0	4	4	0	0	0	4	5	9	13
Total Volume	7	17	24	0	0	0	28	35	63	87
% App. Total	29.2	70.8		0	0		44.4	55.6		
PHF	.583	.708	.667	.000	.000	.000	.467	.673	.685	.680

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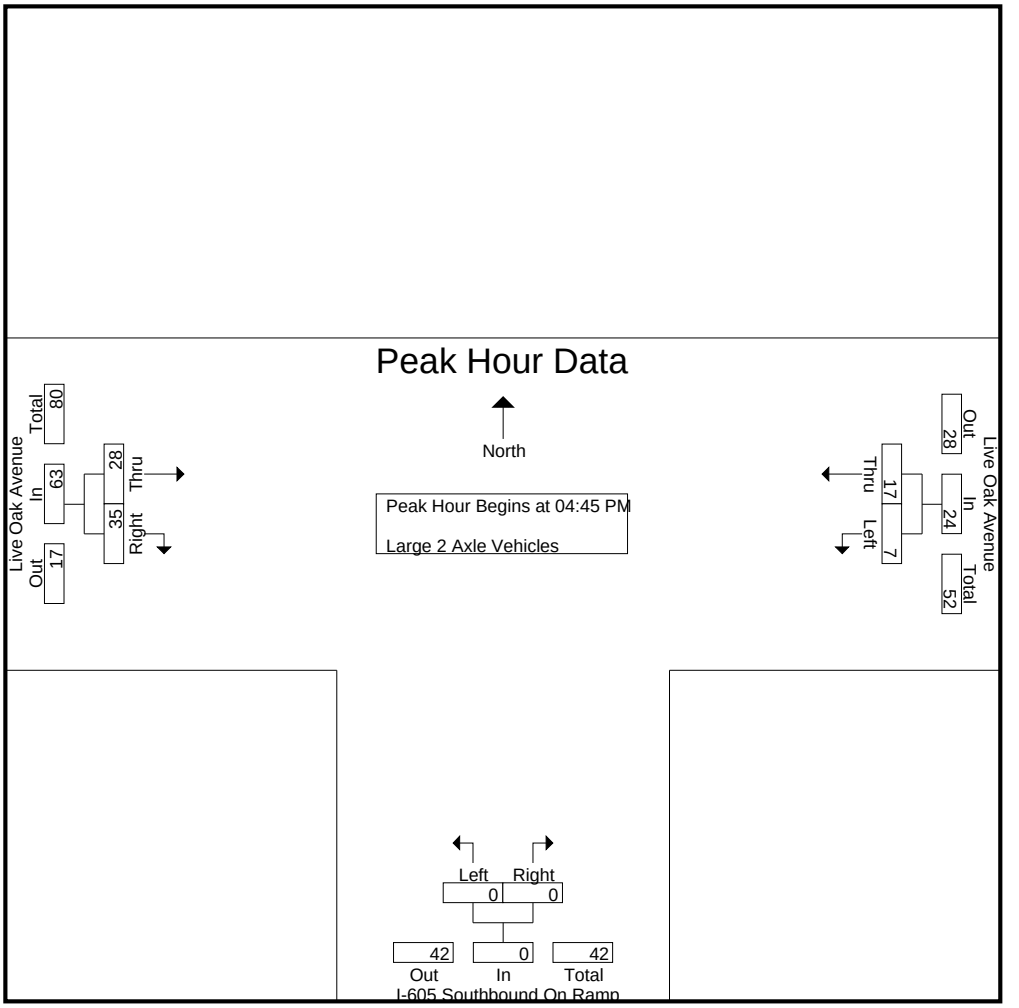

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	**3**	**6**	**9**	0	0	0	**15**	8	**23**
+15 mins.	1	6	7	0	0	0	5	**13**	18
+30 mins.	3	1	4	0	0	0	4	9	13
+45 mins.	0	4	4	0	0	0	4	5	9
Total Volume	7	17	24	0	0	0	28	35	63
% App. Total	29.2	70.8		0	0		44.4	55.6	
PHF	.583	.708	.667	.000	.000	.000	.467	.673	.685

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Groups Printed- 3 Axle Vehicles

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	4	7	11	0	0	0	1	6	7	18
04:15 PM	1	6	7	0	0	0	3	3	6	13
04:30 PM	1	6	7	0	0	0	3	1	4	11
04:45 PM	1	0	1	0	0	0	1	2	3	4
Total	7	19	26	0	0	0	8	12	20	46
05:00 PM	1	2	3	0	0	0	0	3	3	6
05:15 PM	1	4	5	0	0	0	1	4	5	10
05:30 PM	1	2	3	0	0	0	0	1	1	4
05:45 PM	1	3	4	0	0	0	0	1	1	5
Total	4	11	15	0	0	0	1	9	10	25
Grand Total	11	30	41	0	0	0	9	21	30	71
Apprch %	26.8	73.2		0	0		30	70		
Total %	15.5	42.3	57.7	0	0	0	12.7	29.6	42.3	

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	**1**	0	1	0	0	0	**1**	2	3	4
05:00 PM	1	2	3	0	0	0	0	3	3	6
05:15 PM	1	**4**	**5**	0	0	0	1	**4**	**5**	**10**
05:30 PM	1	2	3	0	0	0	0	1	1	4
Total Volume	4	8	12	0	0	0	2	10	12	24
% App. Total	33.3	66.7		0	0		16.7	83.3		
PHF	1.00	.500	.600	.000	.000	.000	.500	.625	.600	.600

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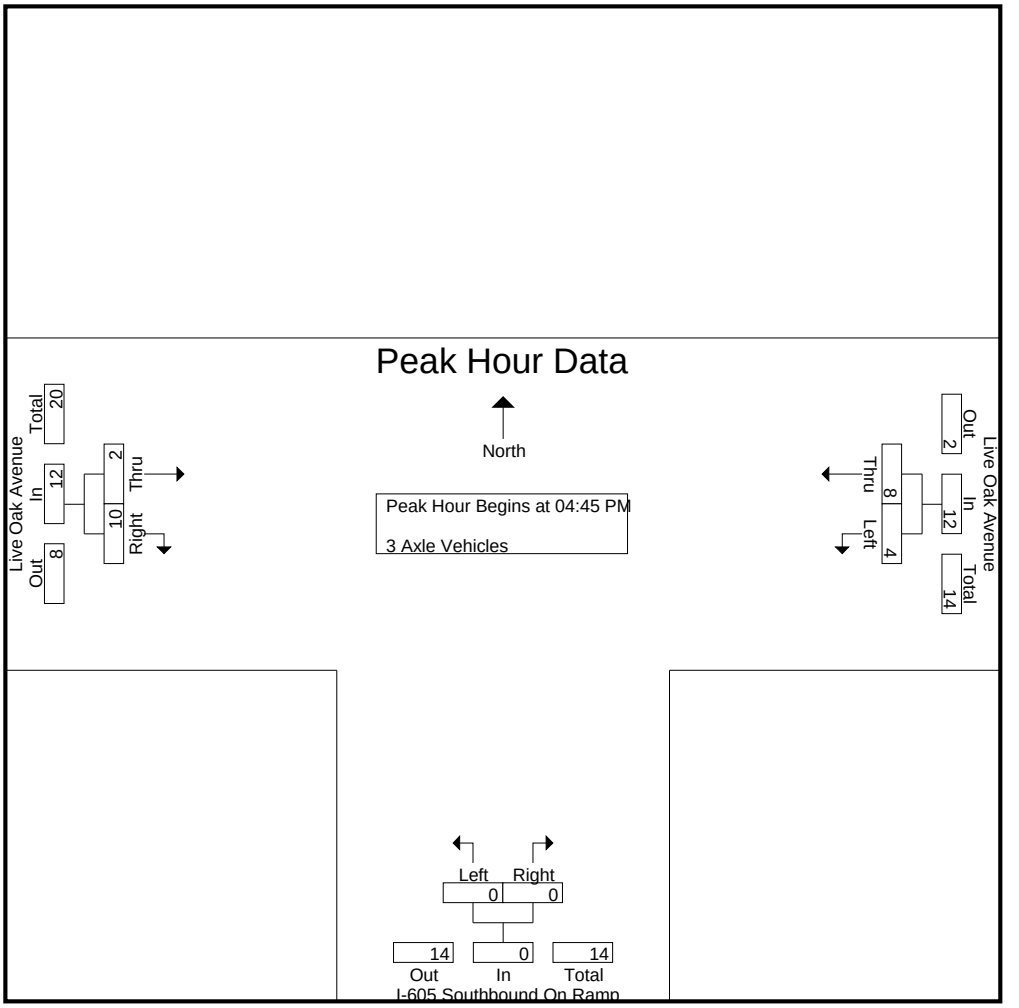

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	**1**	0	1	0	0	0	**1**	2	3
+15 mins.	1	2	3	0	0	0	0	3	3
+30 mins.	1	**4**	**5**	0	0	0	1	**4**	**5**
+45 mins.	1	2	3	0	0	0	0	1	1
Total Volume	4	8	12	0	0	0	2	10	12
% App. Total	33.3	66.7		0	0		16.7	83.3	
PHF	1.000	.500	.600	.000	.000	.000	.500	.625	.600

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City of Irwindale
N/S: I-605 Southbound On Ramp
E/W: Live Oak Avenue
Weather: Clear

File Name : 01_IRW_605S_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- 4+ Axle Trucks

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	3	7	10	0	0	0	2	6	8	18
04:15 PM	8	5	13	0	0	0	1	6	7	20
04:30 PM	2	8	10	0	0	0	2	3	5	15
04:45 PM	2	3	5	0	0	0	1	2	3	8
Total	15	23	38	0	0	0	6	17	23	61
05:00 PM	3	6	9	0	0	0	2	4	6	15
05:15 PM	3	6	9	0	0	0	0	1	1	10
05:30 PM	1	8	9	0	0	0	0	3	3	12
05:45 PM	4	1	5	0	0	0	2	4	6	11
Total	11	21	32	0	0	0	4	12	16	48
Grand Total	26	44	70	0	0	0	10	29	39	109
Apprch %	37.1	62.9		0	0		25.6	74.4		
Total %	23.9	40.4	64.2	0	0	0	9.2	26.6	35.8	

	Live Oak Avenue Westbound			I-605 Southbound On Ramp Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	2	3	5	0	0	0	1	2	3	8
05:00 PM	**3**	6	**9**	0	0	0	**2**	**4**	**6**	**15**
05:15 PM	3	6	9	0	0	0	0	1	1	10
05:30 PM	1	**8**	9	0	0	0	0	3	3	12
Total Volume	9	23	32	0	0	0	3	10	13	45
% App. Total	28.1	71.9		0	0		23.1	76.9		
PHF	.750	.719	.889	.000	.000	.000	.375	.625	.542	.750

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City of Irwindale
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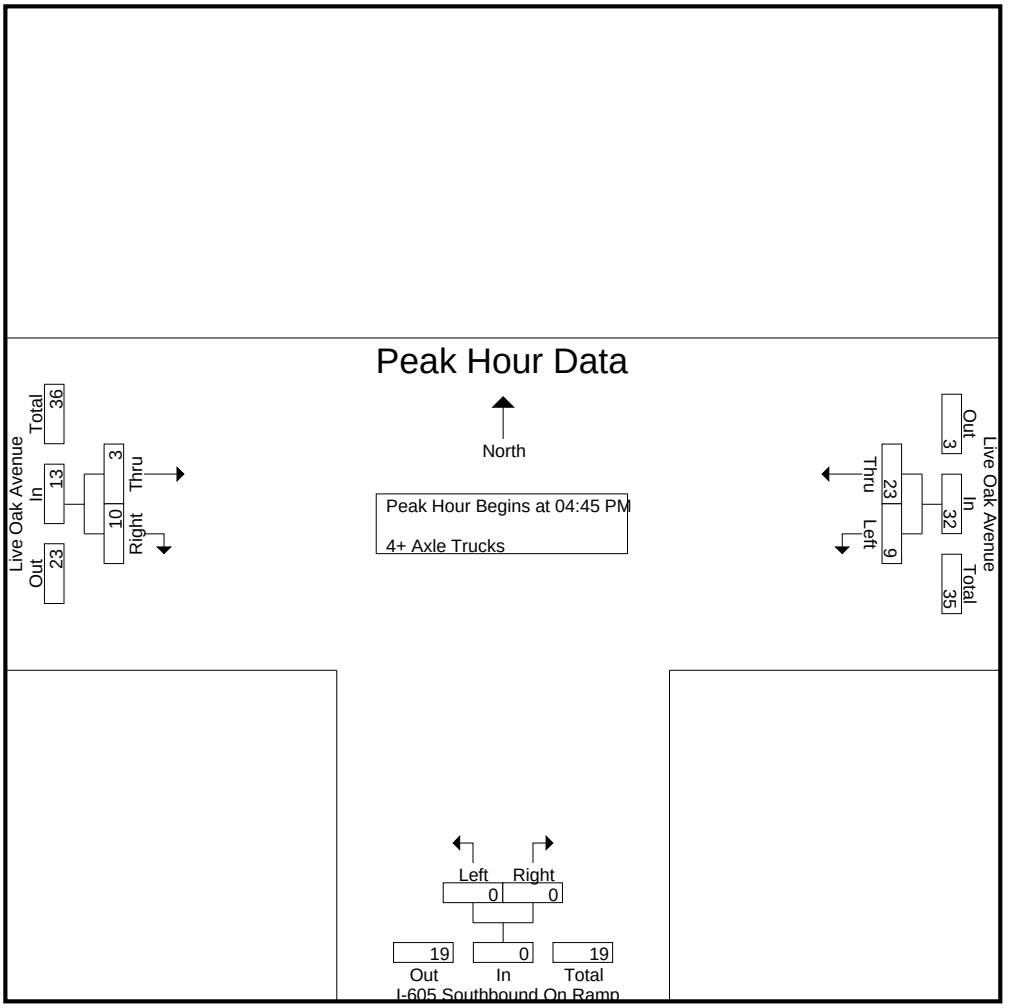
E/W: Live Oak Avenue
Weather: Clear

File Name : 01_IRW_605S_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	2	3	5	0	0	0	1	2	3
+15 mins.	**3**	6	**9**	0	0	0	**2**	**4**	**6**
+30 mins.	3	6	9	0	0	0	0	1	1
+45 mins.	1	**8**	9	0	0	0	0	3	3
Total Volume	9	23	32	0	0	0	3	10	13
% App. Total	28.1	71.9		0	0		23.1	76.9	
PHF	.750	.719	.889	.000	.000	.000	.375	.625	.542

East Adjacent Intersection:
I-605 On-Ramp at Live Oak

Flow Imbalance
I-605 NB Off-Ramps at Live Oak

West Adjacent Intersection:
Graham Access at Live Oak

AM PEAK HOUR

	WBL:	**608**				NBL:	**110**	
WB Flow	WBT:	**1306**	Total = 1914	SB Approach (to WB Live Oak) =	Total = 1446	SBR:	**0**	WB Flow
	WBR:	**0**	<--	468	<--	WBT:	**1336**	
	NBR:	**0**		NB Approach (to EB Live Oak) =		EBL:	**0**	
EB Flow	SBL:	**0**	Total = 278		Total = 781	EBT:	**702**	EB Flow
	EBT:	**278**	-->	503	-->	EBR:	**79**	

PM PEAK HOUR

	WBL:	**549**				NBL:	**10**	
WB Flow	WBT:	**898**	Total = 1447	SB Approach (to WB Live Oak) =	Total = 926	SBR:	**0**	WB Flow
	WBR:	**0**	<--	521	<--	WBT:	**916**	
	NBR:	**0**		NB Approach (to EB Live Oak) =		EBL:	**0**	
EB Flow	SBL:	**0**	Total = 1183		Total = 1757	EBT:	**1749**	EB Flow
	EBT:	**1183**	-->	574	-->	EBR:	**8**	

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City of Irwindale
N/S: Graham Road
E/W: Live Oak Avenue
Weather: Clear

File Name : 02_IRW_Graham_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	4	330	334	15	15	30	118	13	131	495
07:15 AM	10	369	379	14	17	31	118	3	121	531
07:30 AM	3	291	294	14	13	27	153	8	161	482
07:45 AM	4	204	208	11	12	23	237	11	248	479
Total	21	1194	1215	54	57	111	626	35	661	1987
08:00 AM	2	214	216	10	8	18	172	10	182	416
08:15 AM	1	243	244	9	4	13	177	4	181	438
08:30 AM	7	219	226	4	3	7	201	12	213	446
08:45 AM	5	183	188	9	5	14	188	13	201	403
Total	15	859	874	32	20	52	738	39	777	1703
Grand Total	36	2053	2089	86	77	163	1364	74	1438	3690
Apprch %	1.7	98.3		52.8	47.2		94.9	5.1		
Total %	1	55.6	56.6	2.3	2.1	4.4	37	2	39	
Passenger Vehicles	19	1758	1777	15	23	38	1191	15	1206	3021
% Passenger Vehicles	52.8	85.6	85.1	17.4	29.9	23.3	87.3	20.3	83.9	81.9
Large 2 Axle Vehicles	2	143	145	19	39	58	72	4	76	279
% Large 2 Axle Vehicles	5.6	7	6.9	22.1	50.6	35.6	5.3	5.4	5.3	7.6
3 Axle Vehicles	3	89	92	13	8	21	45	13	58	171
% 3 Axle Vehicles	8.3	4.3	4.4	15.1	10.4	12.9	3.3	17.6	4	4.6
4+ Axle Trucks	12	63	75	39	7	46	56	42	98	219
% 4+ Axle Trucks	33.3	3.1	3.6	45.3	9.1	28.2	4.1	56.8	6.8	5.9

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	4	330	334	**15**	15	30	118	**13**	131	495
07:15 AM	**10**	**369**	**379**	14	**17**	**31**	118	3	121	**531**
07:30 AM	3	291	294	14	13	27	153	8	161	482
07:45 AM	4	204	208	11	12	23	**237**	11	**248**	479
Total Volume	21	1194	1215	54	57	111	626	35	661	1987
% App. Total	1.7	98.3		48.6	51.4		94.7	5.3		
PHF	.525	.809	.801	.900	.838	.895	.660	.673	.666	.935

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City of Irwindale
N/S: Graham Road
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File Name : 02_IRW_Graham_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
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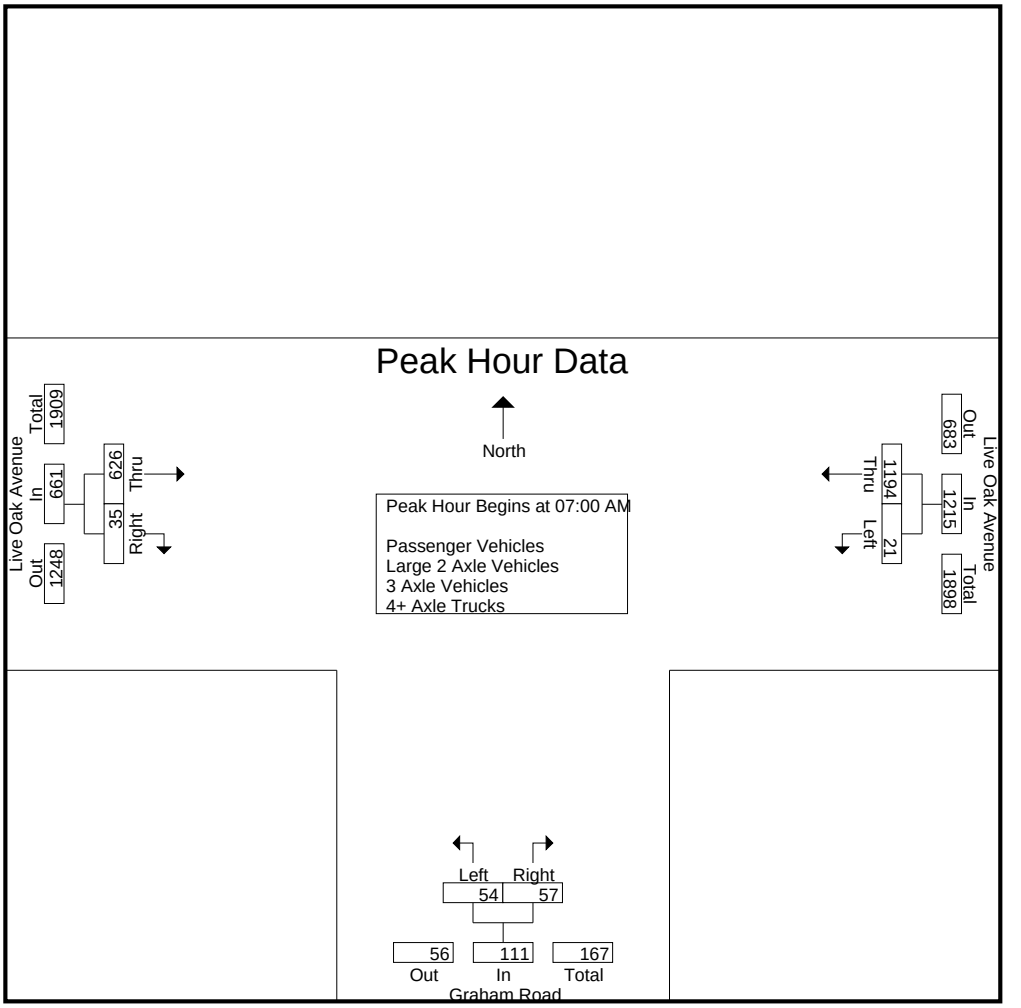

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:45 AM		
+0 mins.	4	330	334	**15**	15	30	**237**	11	**248**
+15 mins.	**10**	**369**	**379**	14	**17**	**31**	172	10	182
+30 mins.	3	291	294	14	13	27	177	4	181
+45 mins.	4	204	208	11	12	23	201	**12**	213
Total Volume	21	1194	1215	54	57	111	787	37	824
% App. Total	1.7	98.3		48.6	51.4		95.5	4.5	
PHF	.525	.809	.801	.900	.838	.895	.830	.771	.831

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City of Irwindale
N/S: Graham Road
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Weather: Clear

File Name : 02_IRW_Graham_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- Passenger Vehicles

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	3	287	290	3	3	6	105	3	108	404
07:15 AM	5	323	328	1	3	4	101	0	101	433
07:30 AM	2	253	255	2	3	5	139	1	140	400
07:45 AM	0	171	171	3	3	6	211	3	214	391
Total	10	1034	1044	9	12	21	556	7	563	1628
08:00 AM	0	179	179	0	4	4	148	1	149	332
08:15 AM	1	214	215	1	1	2	157	0	157	374
08:30 AM	6	186	192	0	2	2	172	3	175	369
08:45 AM	2	145	147	5	4	9	158	4	162	318
Total	9	724	733	6	11	17	635	8	643	1393
Grand Total	19	1758	1777	15	23	38	1191	15	1206	3021
Apprch %	1.1	98.9		39.5	60.5		98.8	1.2		
Total %	0.6	58.2	58.8	0.5	0.8	1.3	39.4	0.5	39.9	

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	3	287	290	**3**	**3**	**6**	105	**3**	108	404
07:15 AM	**5**	**323**	**328**	1	3	4	101	0	101	**433**
07:30 AM	2	253	255	2	3	5	139	1	140	400
07:45 AM	0	171	171	3	3	6	**211**	3	**214**	391
Total Volume	10	1034	1044	9	12	21	556	7	563	1628
% App. Total	1	99		42.9	57.1		98.8	1.2		
PHF	.500	.800	.796	.750	1.00	.875	.659	.583	.658	.940

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City of Irwindale
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Site Code : 22518834
Start Date : 11/1/2018
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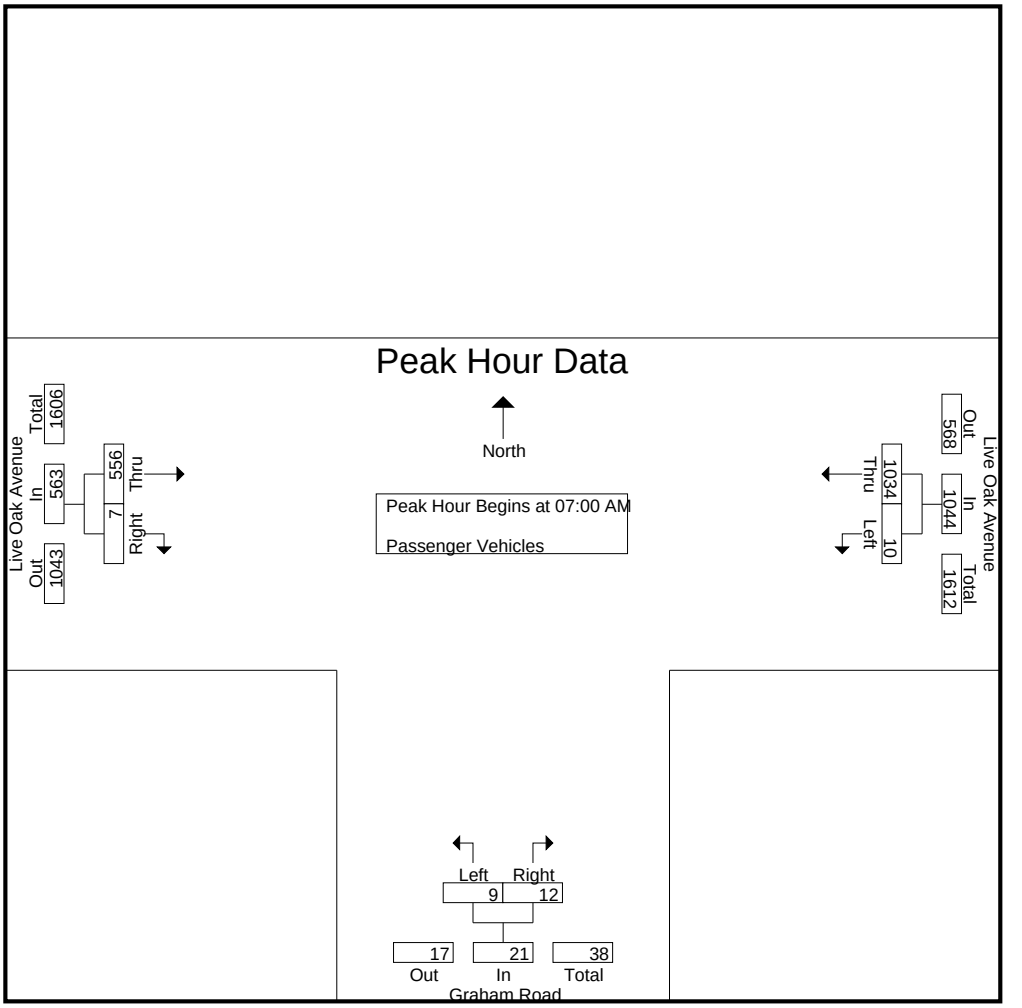

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	3	287	290	**3**	**3**	**6**	105	**3**	108
+15 mins.	**5**	**323**	**328**	1	3	4	101	0	101
+30 mins.	2	253	255	2	3	5	139	1	140
+45 mins.	0	171	171	3	3	6	**211**	3	**214**
Total Volume	10	1034	1044	9	12	21	556	7	563
% App. Total	1	99		42.9	57.1		98.8	1.2	
PHF	.500	.800	.796	.750	1.000	.875	.659	.583	.658

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City of Irwindale
N/S: Graham Road
E/W: Live Oak Avenue
Weather: Clear

File Name : 02_IRW_Graham_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	1	26	27	4	10	14	8	2	10	51
07:15 AM	1	26	27	7	11	18	10	0	10	55
07:30 AM	0	19	19	7	8	15	5	1	6	40
07:45 AM	0	18	18	1	6	7	11	1	12	37
Total	2	89	91	19	35	54	34	4	38	183
08:00 AM	0	16	16	0	4	4	11	0	11	31
08:15 AM	0	13	13	0	0	0	8	0	8	21
08:30 AM	0	14	14	0	0	0	9	0	9	23
08:45 AM	0	11	11	0	0	0	10	0	10	21
Total	0	54	54	0	4	4	38	0	38	96
Grand Total	2	143	145	19	39	58	72	4	76	279
Apprch %	1.4	98.6		32.8	67.2		94.7	5.3		
Total %	0.7	51.3	52	6.8	14	20.8	25.8	1.4	27.2	

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	**1**	**26**	**27**	4	10	14	8	**2**	10	51
07:15 AM	1	26	27	**7**	**11**	**18**	10	0	10	**55**
07:30 AM	0	19	19	7	8	15	5	1	6	40
07:45 AM	0	18	18	1	6	7	**11**	1	**12**	37
Total Volume	2	89	91	19	35	54	34	4	38	183
% App. Total	2.2	97.8		35.2	64.8		89.5	10.5		
PHF	.500	.856	.843	.679	.795	.750	.773	.500	.792	.832

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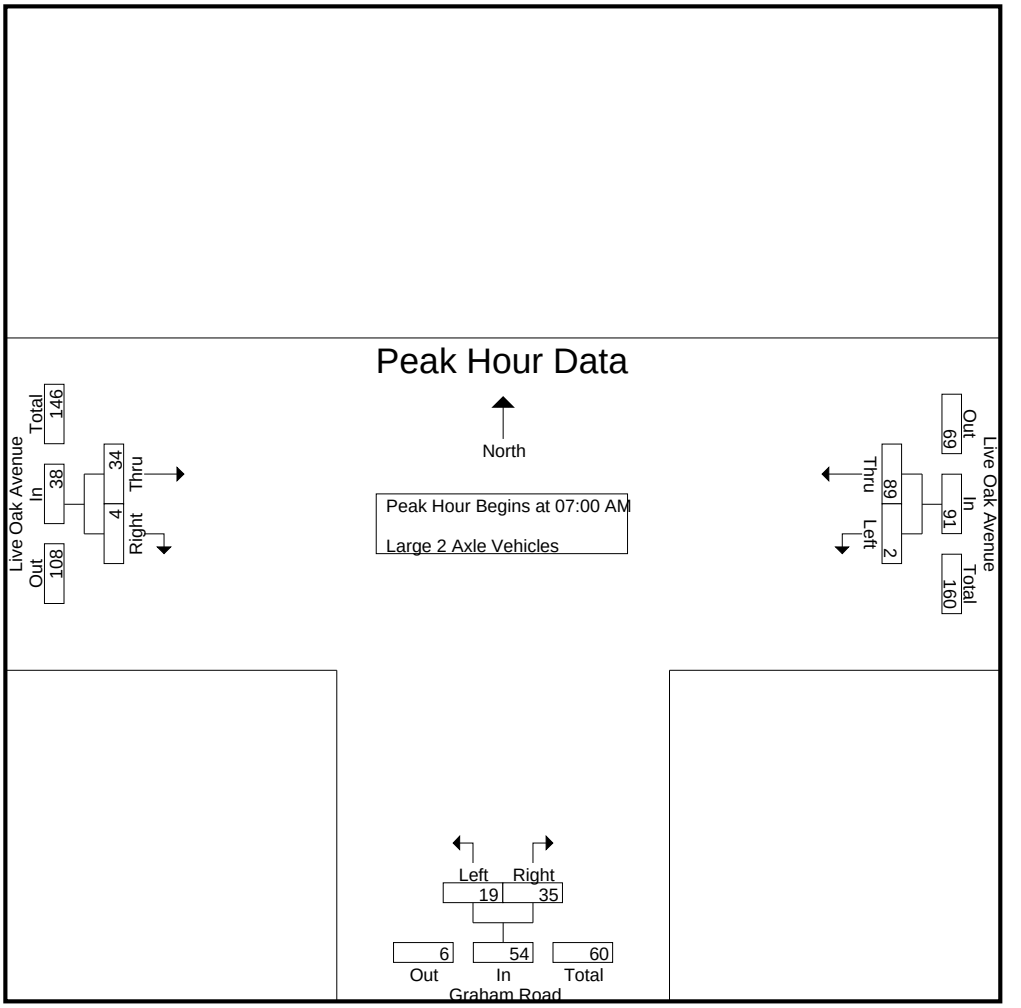

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	**1**	**26**	**27**	4	10	14	8	**2**	10
+15 mins.	1	26	27	**7**	**11**	**18**	10	0	10
+30 mins.	0	19	19	7	8	15	5	1	6
+45 mins.	0	18	18	1	6	7	**11**	1	**12**
Total Volume	2	89	91	19	35	54	34	4	38
% App. Total	2.2	97.8		35.2	64.8		89.5	10.5	
PHF	.500	.856	.843	.679	.795	.750	.773	.500	.792

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City of Irwindale
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E/W: Live Oak Avenue
Weather: Clear

File Name : 02_IRW_Graham_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- 3 Axle Vehicles

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	11	11	2	1	3	2	1	3	17
07:15 AM	2	11	13	0	2	2	3	0	3	18
07:30 AM	0	12	12	1	0	1	3	2	5	18
07:45 AM	0	11	11	3	2	5	5	3	8	24
Total	2	45	47	6	5	11	13	6	19	77
08:00 AM	0	11	11	4	0	4	5	6	11	26
08:15 AM	0	6	6	3	2	5	4	0	4	15
08:30 AM	0	11	11	0	1	1	13	1	14	26
08:45 AM	1	16	17	0	0	0	10	0	10	27
Total	1	44	45	7	3	10	32	7	39	94
Grand Total	3	89	92	13	8	21	45	13	58	171
Apprch %	3.3	96.7		61.9	38.1		77.6	22.4		
Total %	1.8	52	53.8	7.6	4.7	12.3	26.3	7.6	33.9	

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	0	11	11	2	1	3	2	1	3	17
07:15 AM	**2**	11	**13**	0	**2**	2	3	0	3	18
07:30 AM	0	**12**	12	1	0	1	3	2	5	18
07:45 AM	0	11	11	**3**	2	**5**	**5**	**3**	**8**	**24**
Total Volume	2	45	47	6	5	11	13	6	19	77
% App. Total	4.3	95.7		54.5	45.5		68.4	31.6		
PHF	.250	.938	.904	.500	.625	.550	.650	.500	.594	.802

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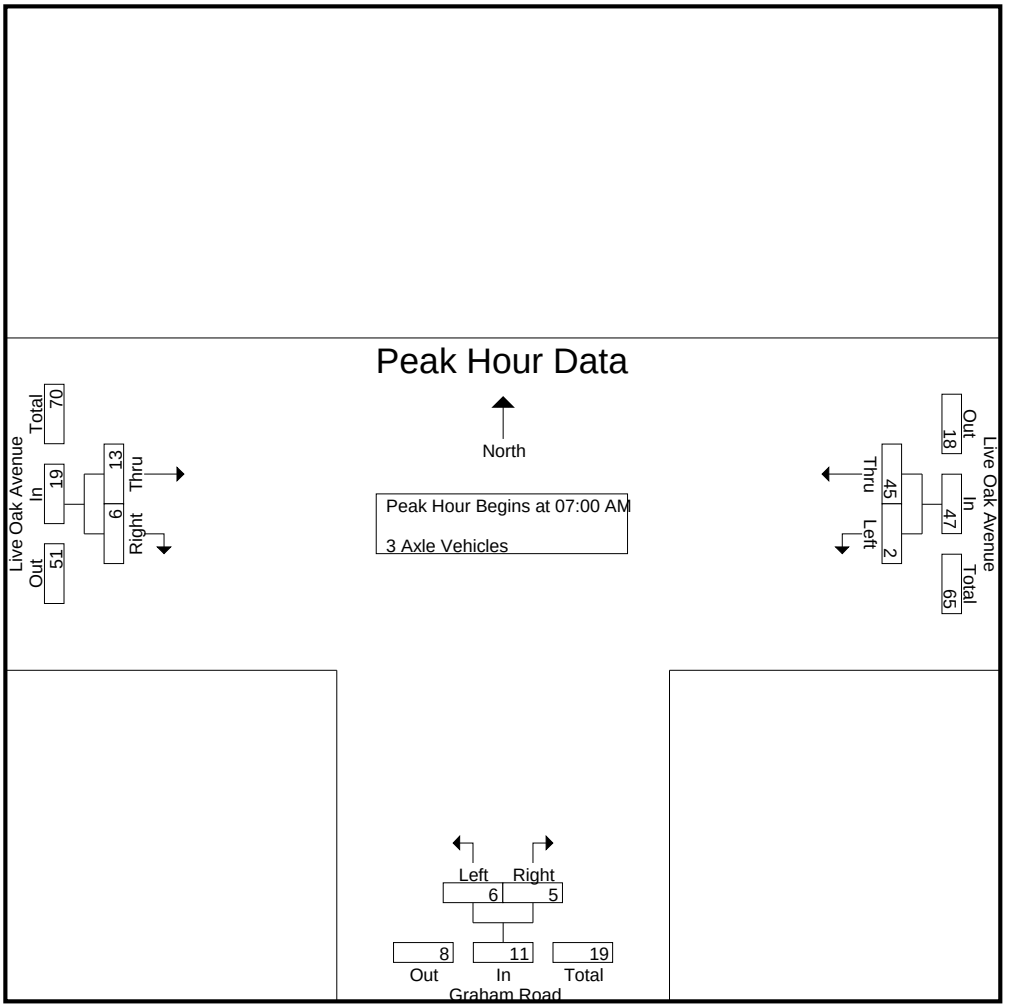

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	11	11	2	1	3	2	1	3
+15 mins.	**2**	11	**13**	0	**2**	2	3	0	3
+30 mins.	0	**12**	12	1	0	1	3	2	5
+45 mins.	0	11	11	**3**	2	**5**	**5**	**3**	**8**
Total Volume	2	45	47	6	5	11	13	6	19
% App. Total	4.3	95.7		54.5	45.5		68.4	31.6	
PHF	.250	.938	.904	.500	.625	.550	.650	.500	.594

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Weather: Clear

File Name : 02_IRW_Graham_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- 4+ Axle Trucks

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	6	6	6	1	7	3	7	10	23
07:15 AM	2	9	11	6	1	7	4	3	7	25
07:30 AM	1	7	8	4	2	6	6	4	10	24
07:45 AM	4	4	8	4	1	5	10	4	14	27
Total	7	26	33	20	5	25	23	18	41	99
08:00 AM	2	8	10	6	0	6	8	3	11	27
08:15 AM	0	10	10	5	1	6	8	4	12	28
08:30 AM	1	8	9	4	0	4	7	8	15	28
08:45 AM	2	11	13	4	1	5	10	9	19	37
Total	5	37	42	19	2	21	33	24	57	120
Grand Total	12	63	75	39	7	46	56	42	98	219
Apprch %	16	84		84.8	15.2		57.1	42.9		
Total %	5.5	28.8	34.2	17.8	3.2	21	25.6	19.2	44.7	

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	0	6	6	**6**	1	**7**	3	**7**	10	23
07:15 AM	2	**9**	**11**	6	1	7	4	3	7	25
07:30 AM	1	7	8	4	**2**	6	6	4	10	24
07:45 AM	**4**	4	8	4	1	5	**10**	4	**14**	**27**
Total Volume	7	26	33	20	5	25	23	18	41	99
% App. Total	21.2	78.8		80	20		56.1	43.9		
PHF	.438	.722	.750	.833	.625	.893	.575	.643	.732	.917

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City of Irwindale
N/S: Graham Road
E/W: Live Oak Avenue
Weather: Clear

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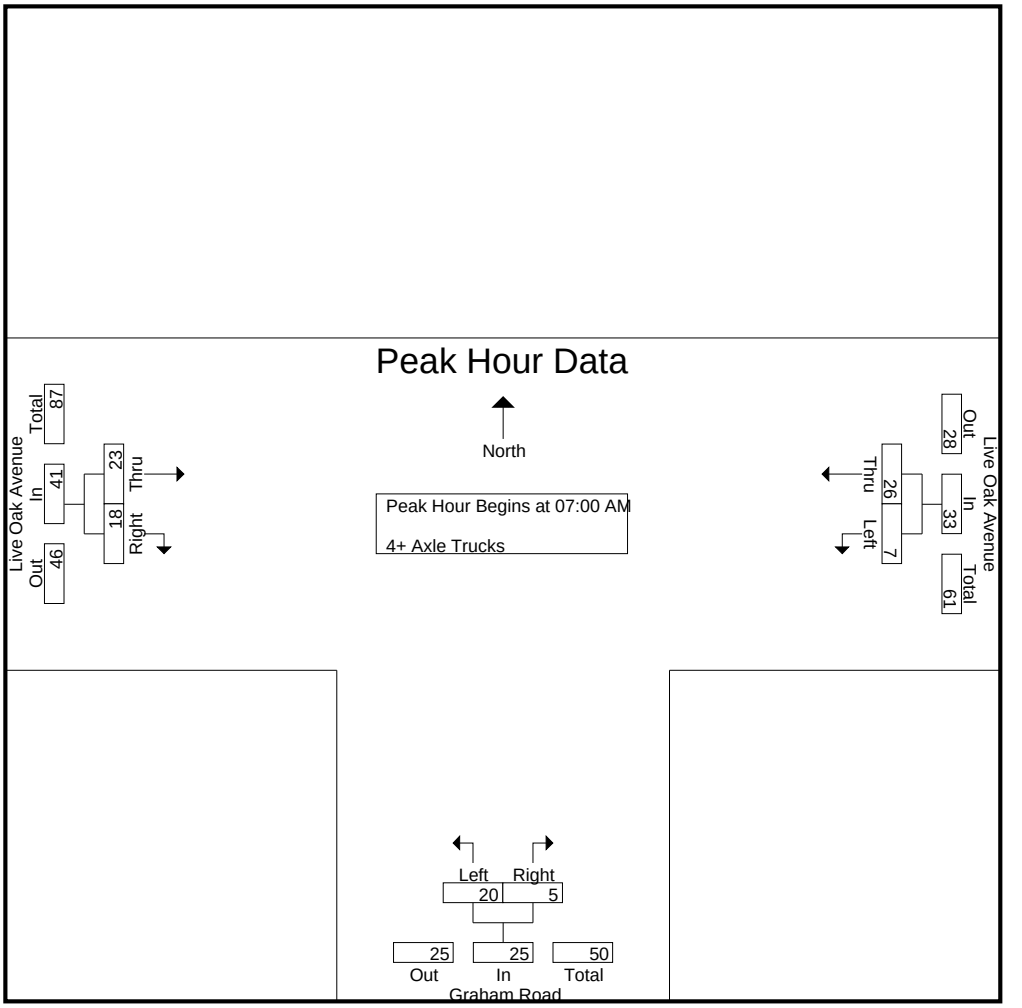

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	6	6	**6**	1	**7**	3	**7**	10
+15 mins.	2	**9**	**11**	6	1	7	4	3	7
+30 mins.	1	7	8	4	**2**	6	6	4	10
+45 mins.	**4**	4	8	4	1	5	**10**	4	**14**
Total Volume	7	26	33	20	5	25	23	18	41
% App. Total	21.2	78.8		80	20		56.1	43.9	
PHF	.438	.722	.750	.833	.625	.893	.575	.643	.732

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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	2	168	170	5	12	17	363	4	367	554
04:15 PM	2	194	196	4	4	8	402	5	407	611
04:30 PM	3	220	223	4	8	12	366	4	370	605
04:45 PM	2	189	191	2	4	6	427	2	429	626
Total	9	771	780	15	28	43	1558	15	1573	2396
05:00 PM	2	237	239	1	1	2	428	1	429	670
05:15 PM	3	228	231	4	3	7	416	1	417	655
05:30 PM	2	225	227	2	1	3	419	1	420	650
05:45 PM	1	188	189	5	3	8	385	3	388	585
Total	8	878	886	12	8	20	1648	6	1654	2560
Grand Total	17	1649	1666	27	36	63	3206	21	3227	4956
Apprch %	1	99		42.9	57.1		99.3	0.7		
Total %	0.3	33.3	33.6	0.5	0.7	1.3	64.7	0.4	65.1	
Passenger Vehicles	13	1555	1568	19	33	52	3029	5	3034	4654
% Passenger Vehicles	76.5	94.3	94.1	70.4	91.7	82.5	94.5	23.8	94	93.9
Large 2 Axle Vehicles	3	48	51	6	3	9	120	13	133	193
% Large 2 Axle Vehicles	17.6	2.9	3.1	22.2	8.3	14.3	3.7	61.9	4.1	3.9
3 Axle Vehicles	0	14	14	2	0	2	23	2	25	41
% 3 Axle Vehicles	0	0.8	0.8	7.4	0	3.2	0.7	9.5	0.8	0.8
4+ Axle Trucks	1	32	33	0	0	0	34	1	35	68
% 4+ Axle Trucks	5.9	1.9	2	0	0	0	1.1	4.8	1.1	1.4

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	2	189	191	2	**4**	6	427	**2**	**429**	626
05:00 PM	2	**237**	**239**	1	1	2	**428**	1	429	**670**
05:15 PM	**3**	228	231	**4**	3	**7**	416	1	417	655
05:30 PM	2	225	227	2	1	3	419	1	420	650
Total Volume	9	879	888	9	9	18	1690	5	1695	2601
% App. Total	1	99		50	50		99.7	0.3		
PHF	.750	.927	.929	.563	.563	.643	.987	.625	.988	.971

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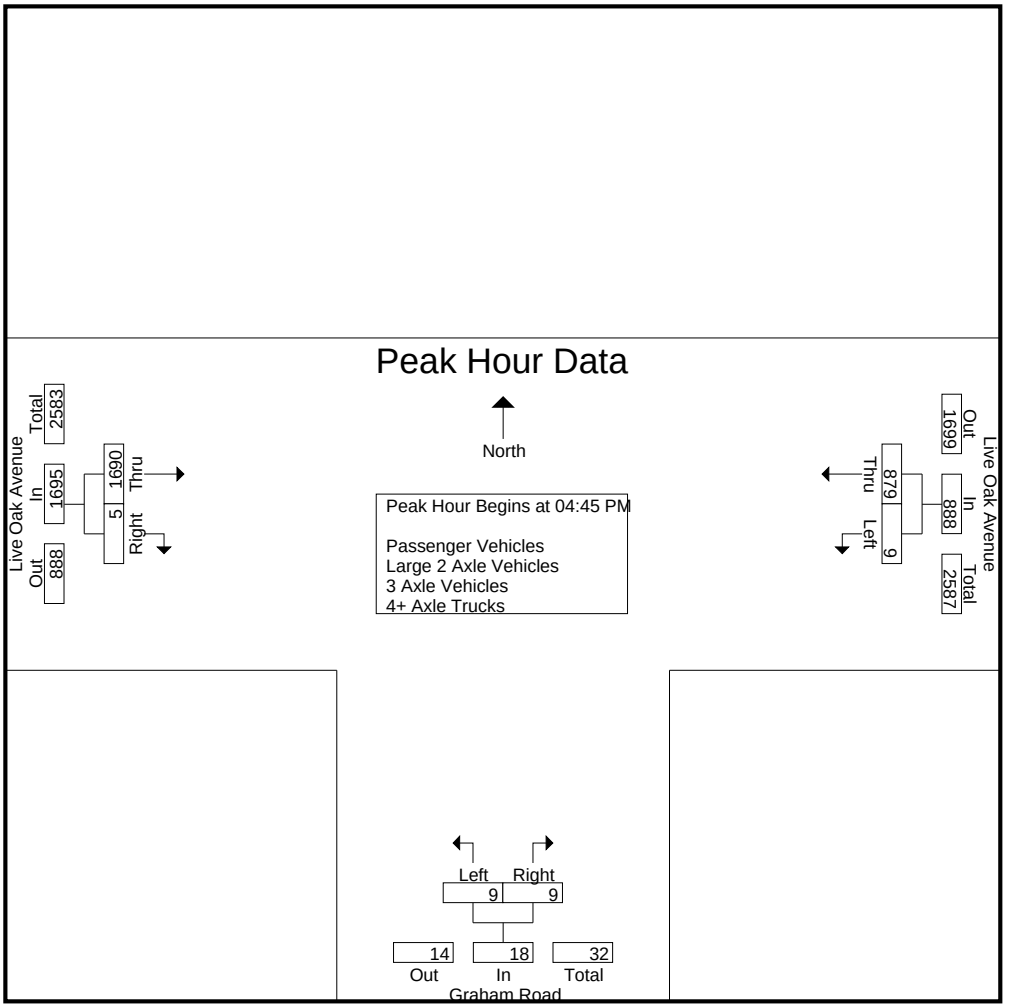

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:00 PM			04:45 PM		
+0 mins.	2	189	191	**5**	**12**	**17**	427	**2**	**429**
+15 mins.	2	**237**	**239**	4	4	8	**428**	1	429
+30 mins.	**3**	228	231	4	8	12	416	1	417
+45 mins.	2	225	227	2	4	6	419	1	420
Total Volume	9	879	888	15	28	43	1690	5	1695
% App. Total	1	99		34.9	65.1		99.7	0.3	
PHF	.750	.927	.929	.750	.583	.632	.987	.625	.988

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City of Irwindale
N/S: Graham Road
E/W: Live Oak Avenue
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Groups Printed- Passenger Vehicles

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	1	153	154	3	11	14	336	0	336	504
04:15 PM	2	177	179	4	4	8	374	1	375	562
04:30 PM	2	203	205	2	8	10	339	1	340	555
04:45 PM	1	180	181	1	4	5	398	1	399	585
Total	6	713	719	10	27	37	1447	3	1450	2206
05:00 PM	2	229	231	1	1	2	411	0	411	644
05:15 PM	3	219	222	3	2	5	395	1	396	623
05:30 PM	2	219	221	2	0	2	409	1	410	633
05:45 PM	0	175	175	3	3	6	367	0	367	548
Total	7	842	849	9	6	15	1582	2	1584	2448
Grand Total	13	1555	1568	19	33	52	3029	5	3034	4654
Apprch %	0.8	99.2		36.5	63.5		99.8	0.2		
Total %	0.3	33.4	33.7	0.4	0.7	1.1	65.1	0.1	65.2	

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	1	180	181	1	**4**	**5**	398	**1**	399	585
05:00 PM	2	**229**	**231**	1	1	2	**411**	0	**411**	**644**
05:15 PM	**3**	219	222	**3**	2	5	395	1	396	623
05:30 PM	2	219	221	2	0	2	409	1	410	633
Total Volume	8	847	855	7	7	14	1613	3	1616	2485
% App. Total	0.9	99.1		50	50		99.8	0.2		
PHF	.667	.925	.925	.583	.438	.700	.981	.750	.983	.965

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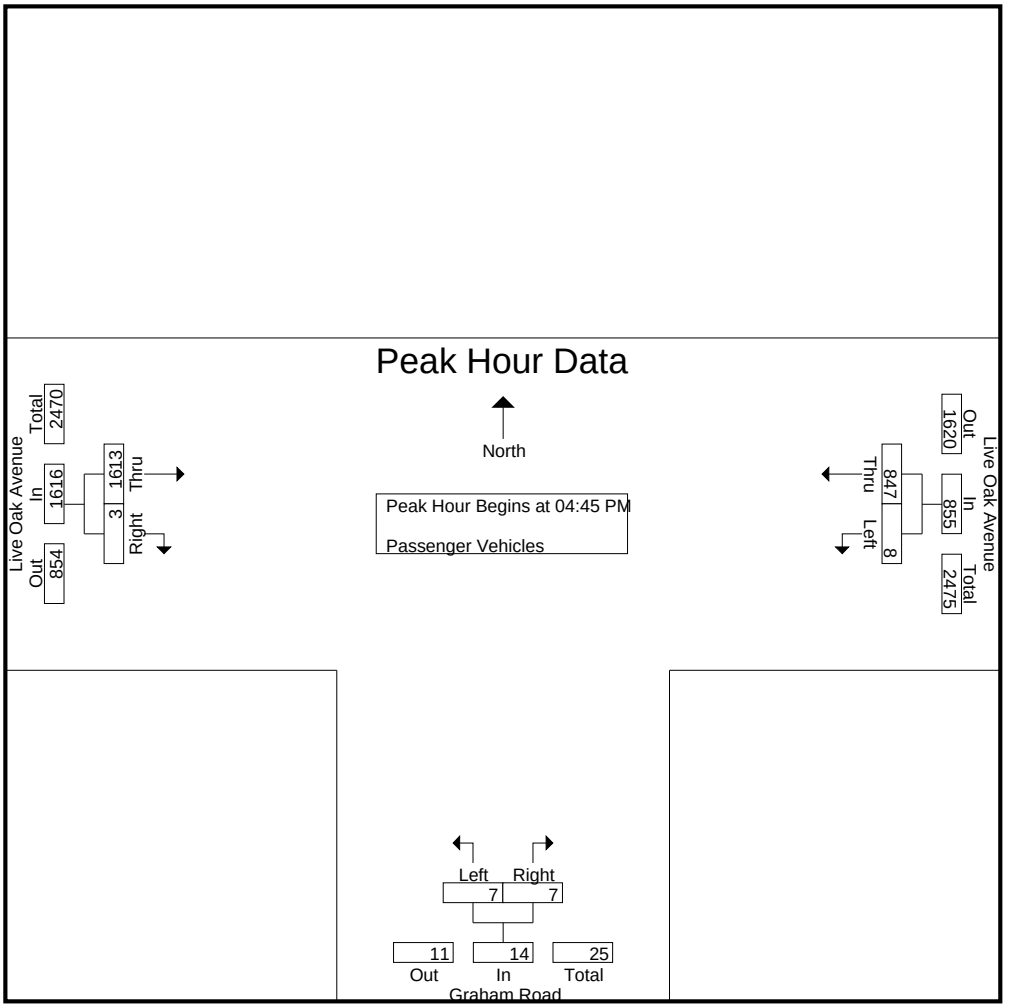

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	1	180	181	1	**4**	**5**	398	**1**	399
+15 mins.	2	**229**	**231**	1	1	2	**411**	0	**411**
+30 mins.	**3**	219	222	**3**	2	5	395	1	396
+45 mins.	2	219	221	2	0	2	409	1	410
Total Volume	8	847	855	7	7	14	1613	3	1616
% App. Total	0.9	99.1		50	50		99.8	0.2	
PHF	.667	.925	.925	.583	.438	.700	.981	.750	.983

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City of Irwindale
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Groups Printed- Large 2 Axle Vehicles

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	1	9	10	1	1	2	21	3	24	36
04:15 PM	0	7	7	0	0	0	20	3	23	30
04:30 PM	1	10	11	1	0	1	15	3	18	30
04:45 PM	0	7	7	1	0	1	21	1	22	30
Total	2	33	35	3	1	4	77	10	87	126
05:00 PM	0	2	2	0	0	0	12	0	12	14
05:15 PM	0	4	4	1	1	2	16	0	16	22
05:30 PM	0	2	2	0	1	1	7	0	7	10
05:45 PM	1	7	8	2	0	2	8	3	11	21
Total	1	15	16	3	2	5	43	3	46	67
Grand Total	3	48	51	6	3	9	120	13	133	193
Apprch %	5.9	94.1		66.7	33.3		90.2	9.8		
Total %	1.6	24.9	26.4	3.1	1.6	4.7	62.2	6.7	68.9	

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	0	**7**	**7**	**1**	0	1	**21**	**1**	**22**	**30**
05:00 PM	0	2	2	0	0	0	12	0	12	14
05:15 PM	0	4	4	1	**1**	**2**	16	0	16	22
05:30 PM	0	2	2	0	1	1	7	0	7	10
Total Volume	0	15	15	2	2	4	56	1	57	76
% App. Total	0	100		50	50		98.2	1.8		
PHF	.000	.536	.536	.500	.500	.500	.667	.250	.648	.633

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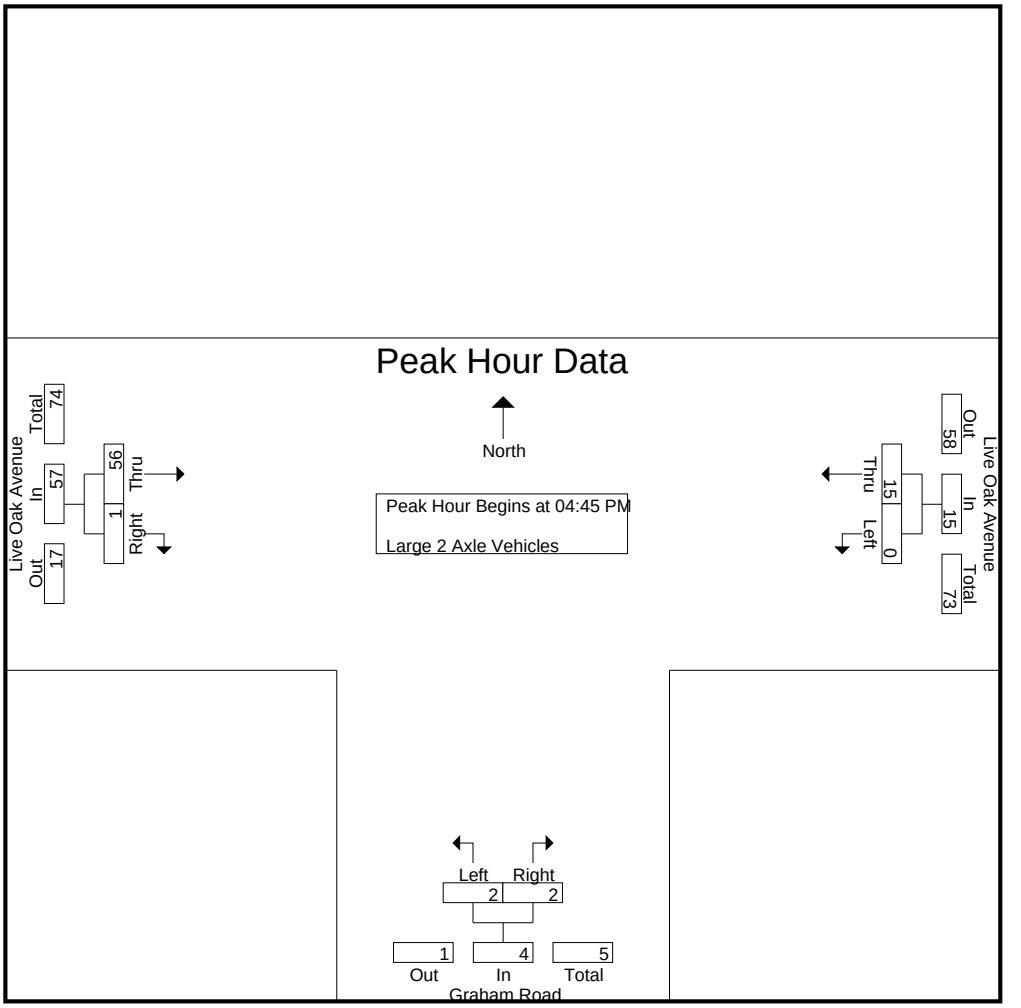

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	0	**7**	**7**	**1**	0	1	**21**	**1**	**22**
+15 mins.	0	2	2	0	0	0	12	0	12
+30 mins.	0	4	4	1	**1**	**2**	16	0	16
+45 mins.	0	2	2	0	1	1	7	0	7
Total Volume	0	15	15	2	2	4	56	1	57
% App. Total	0	100		50	50		98.2	1.8	
PHF	.000	.536	.536	.500	.500	.500	.667	.250	.648

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N/S: Graham Road
E/W: Live Oak Avenue
Weather: Clear

File Name : 02_IRW_Graham_Live Oak PM
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Groups Printed- 3 Axle Vehicles

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	4	4	1	0	1	3	1	4	9
04:15 PM	0	1	1	0	0	0	3	1	4	5
04:30 PM	0	2	2	1	0	1	4	0	4	7
04:45 PM	0	0	0	0	0	0	4	0	4	4
Total	0	7	7	2	0	2	14	2	16	25
05:00 PM	0	2	2	0	0	0	2	0	2	4
05:15 PM	0	1	1	0	0	0	4	0	4	5
05:30 PM	0	2	2	0	0	0	1	0	1	3
05:45 PM	0	2	2	0	0	0	2	0	2	4
Total	0	7	7	0	0	0	9	0	9	16
Grand Total	0	14	14	2	0	2	23	2	25	41
Apprch %	0	100		100	0		92	8		
Total %	0	34.1	34.1	4.9	0	4.9	56.1	4.9	61	

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	0	0	0	0	0	0	**4**	0	**4**	4
05:00 PM	0	**2**	**2**	0	0	0	2	0	2	4
05:15 PM	0	1	1	0	0	0	4	0	4	**5**
05:30 PM	0	2	2	0	0	0	1	0	1	3
Total Volume	0	5	5	0	0	0	11	0	11	16
% App. Total	0	100		0	0		100	0		
PHF	.000	.625	.625	.000	.000	.000	.688	.000	.688	.800

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City of Irwindale
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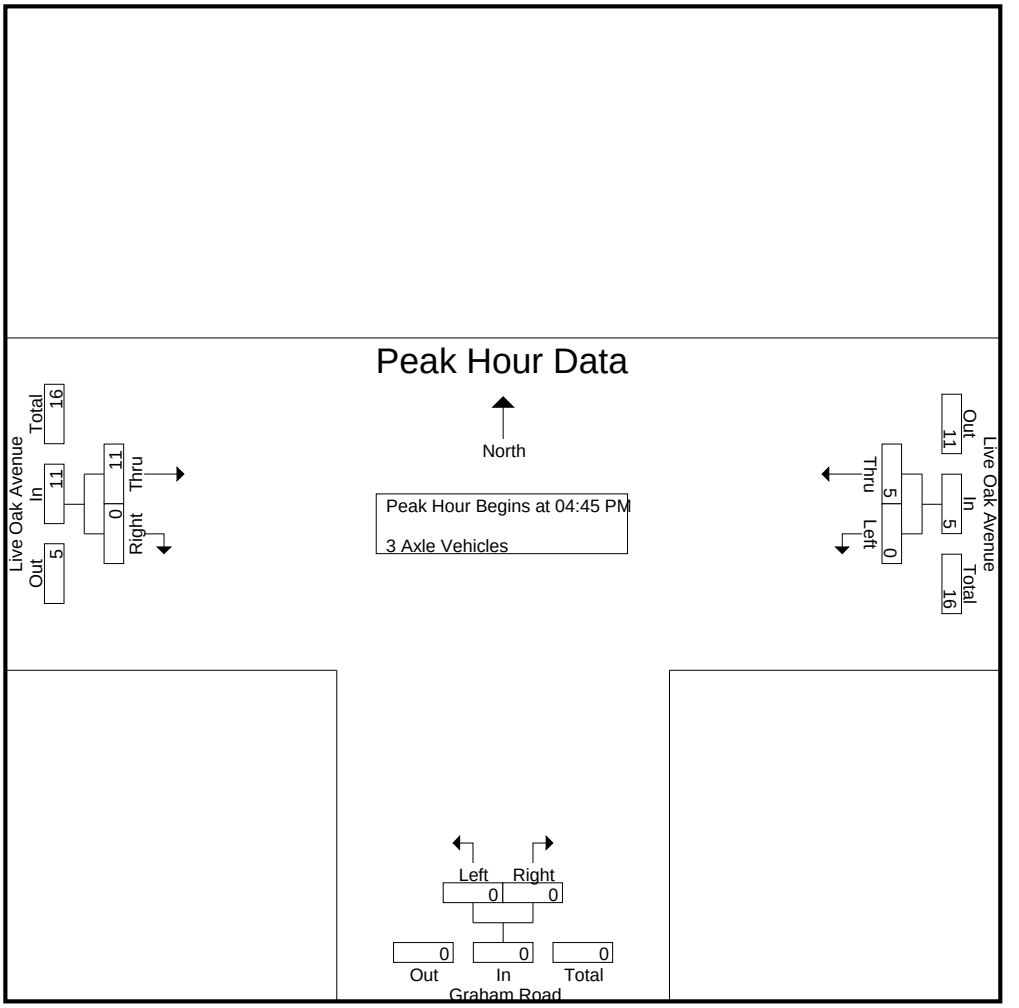

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	0	0	0	0	0	0	**4**	0	**4**
+15 mins.	0	**2**	**2**	0	0	0	2	0	2
+30 mins.	0	1	1	0	0	0	4	0	4
+45 mins.	0	2	2	0	0	0	1	0	1
Total Volume	0	5	5	0	0	0	11	0	11
% App. Total	0	100		0	0		100	0	
PHF	.000	.625	.625	.000	.000	.000	.688	.000	.688

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Groups Printed- 4+ Axle Trucks

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	2	2	0	0	0	3	0	3	5
04:15 PM	0	9	9	0	0	0	5	0	5	14
04:30 PM	0	5	5	0	0	0	8	0	8	13
04:45 PM	1	2	3	0	0	0	4	0	4	7
Total	1	18	19	0	0	0	20	0	20	39
05:00 PM	0	4	4	0	0	0	3	1	4	8
05:15 PM	0	4	4	0	0	0	1	0	1	5
05:30 PM	0	2	2	0	0	0	2	0	2	4
05:45 PM	0	4	4	0	0	0	8	0	8	12
Total	0	14	14	0	0	0	14	1	15	29
Grand Total	1	32	33	0	0	0	34	1	35	68
Apprch %	3	97		0	0		97.1	2.9		
Total %	1.5	47.1	48.5	0	0	0	50	1.5	51.5	

	Live Oak Avenue Westbound			Graham Road Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	**1**	2	3	0	0	0	**4**	0	**4**	7
05:00 PM	0	**4**	**4**	0	0	0	3	**1**	4	**8**
05:15 PM	0	4	4	0	0	0	1	0	1	5
05:30 PM	0	2	2	0	0	0	2	0	2	4
Total Volume	1	12	13	0	0	0	10	1	11	24
% App. Total	7.7	92.3		0	0		90.9	9.1		
PHF	.250	.750	.813	.000	.000	.000	.625	.250	.688	.750

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Weather: Clear

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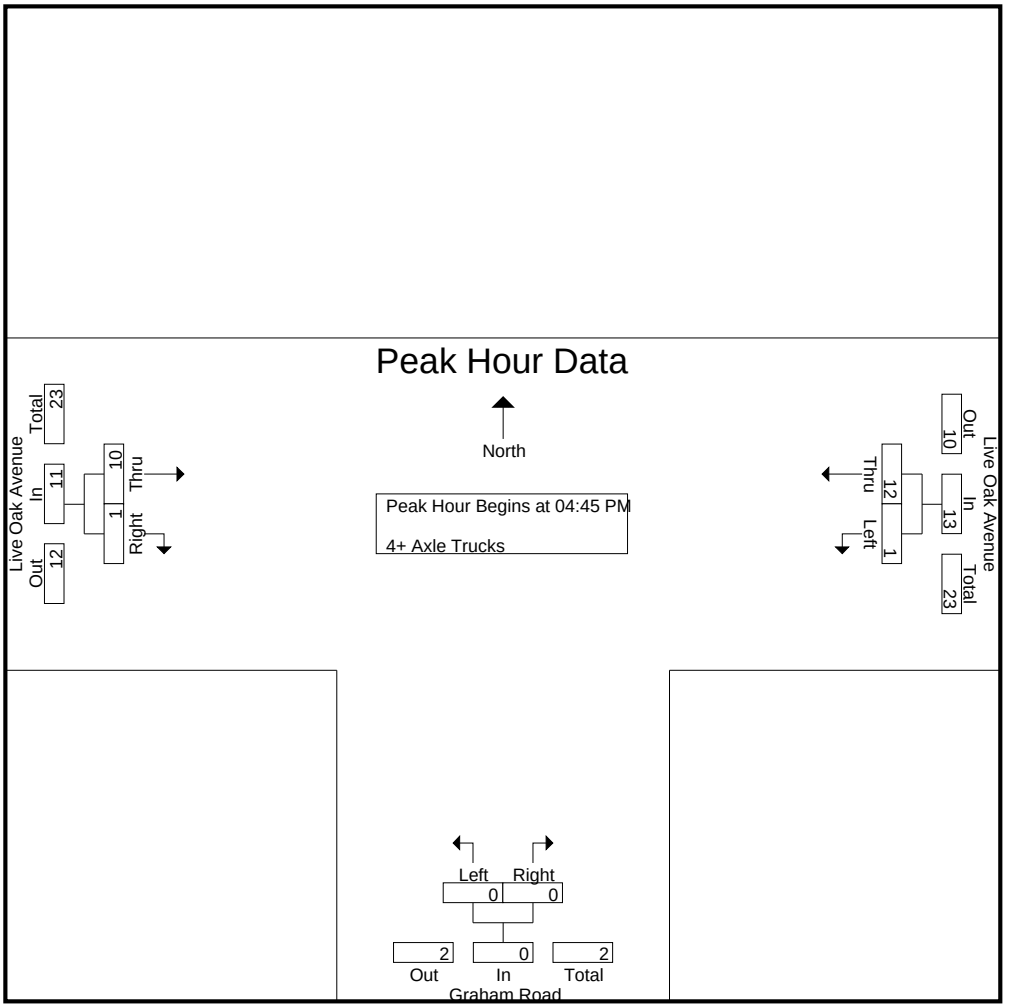

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	**1**	2	3	0	0	0	**4**	0	**4**
+15 mins.	0	**4**	**4**	0	0	0	3	**1**	4
+30 mins.	0	4	4	0	0	0	1	0	1
+45 mins.	0	2	2	0	0	0	2	0	2
Total Volume	1	12	13	0	0	0	10	1	11
% App. Total	7.7	92.3		0	0		90.9	9.1	
PHF	.250	.750	.813	.000	.000	.000	.625	.250	.688

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City of Irwindale
N/S: Live Oak Lane
E/W: Live Oak Avenue
Weather: Clear

File Name : 03_IRW_Live Oak Ln_Live Oak AM
Site Code : 22518834
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	18	18	322	5	327	7	132	139	484
07:15 AM	0	12	12	371	5	376	6	131	137	525
07:30 AM	1	13	14	288	3	291	8	168	176	481
07:45 AM	0	9	9	196	8	204	5	244	249	462
Total	1	52	53	1177	21	1198	26	675	701	1952
08:00 AM	1	9	10	216	6	222	2	179	181	413
08:15 AM	0	7	7	228	6	234	11	169	180	421
08:30 AM	0	11	11	217	5	222	16	194	210	443
08:45 AM	0	23	23	169	3	172	13	182	195	390
Total	1	50	51	830	20	850	42	724	766	1667
Grand Total	2	102	104	2007	41	2048	68	1399	1467	3619
Apprch %	1.9	98.1		98	2		4.6	95.4		
Total %	0.1	2.8	2.9	55.5	1.1	56.6	1.9	38.7	40.5	
Passenger Vehicles	2	20	22	1799	22	1821	36	1218	1254	3097
% Passenger Vehicles	100	19.6	21.2	89.6	53.7	88.9	52.9	87.1	85.5	85.6
Large 2 Axle Vehicles	0	5	5	116	2	118	3	92	95	218
% Large 2 Axle Vehicles	0	4.9	4.8	5.8	4.9	5.8	4.4	6.6	6.5	6
3 Axle Vehicles	0	62	62	29	16	45	21	32	53	160
% 3 Axle Vehicles	0	60.8	59.6	1.4	39	2.2	30.9	2.3	3.6	4.4
4+ Axle Trucks	0	15	15	63	1	64	8	57	65	144
% 4+ Axle Trucks	0	14.7	14.4	3.1	2.4	3.1	11.8	4.1	4.4	4

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	0	**18**	**18**	322	5	327	7	132	139	484
07:15 AM	0	12	12	**371**	5	**376**	6	131	137	**525**
07:30 AM	**1**	13	14	288	3	291	**8**	168	176	481
07:45 AM	0	9	9	196	**8**	204	5	**244**	**249**	462
Total Volume	1	52	53	1177	21	1198	26	675	701	1952
% App. Total	1.9	98.1		98.2	1.8		3.7	96.3		
PHF	.250	.722	.736	.793	.656	.797	.813	.692	.704	.930

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City of Irwindale
N/S: Live Oak Lane
E/W: Live Oak Avenue
Weather: Clear

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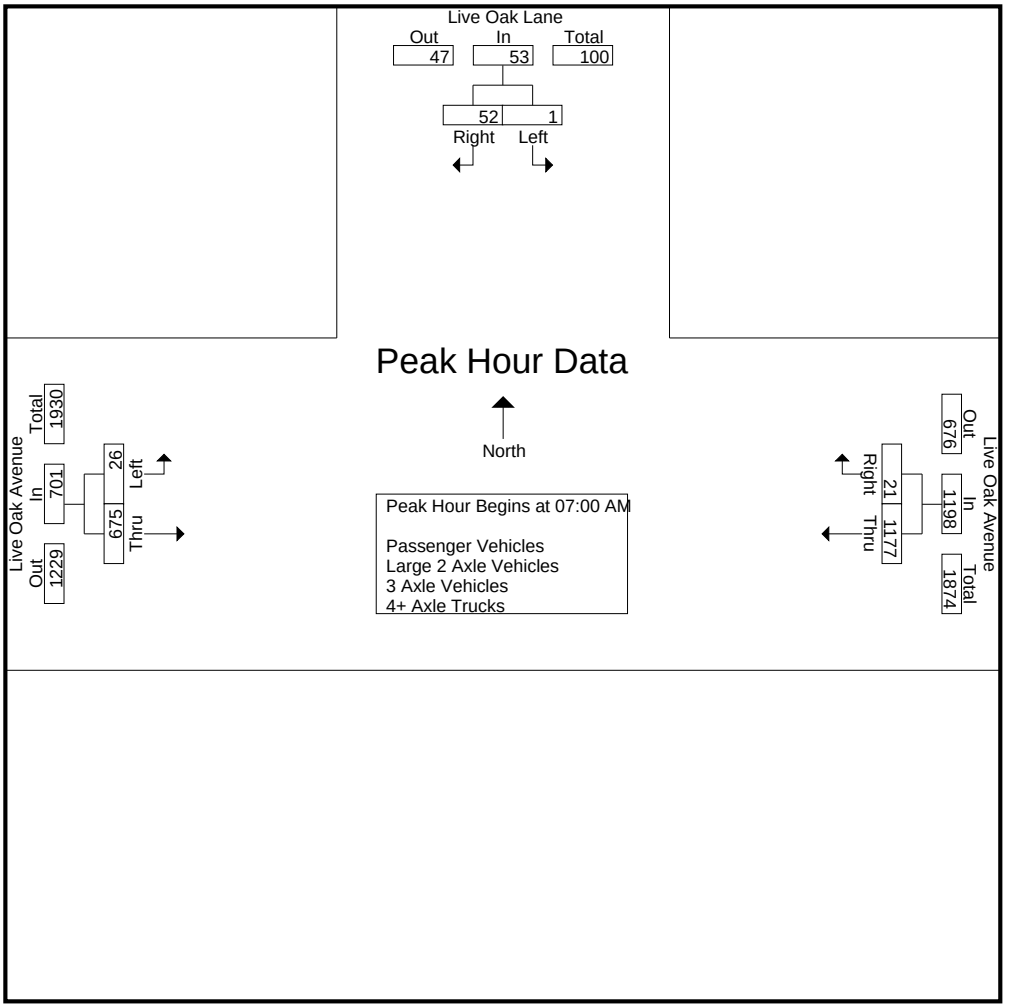

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:45 AM		
+0 mins.	0	**18**	**18**	322	5	327	5	**244**	**249**
+15 mins.	0	12	12	**371**	5	**376**	2	179	181
+30 mins.	**1**	13	14	288	3	291	11	169	180
+45 mins.	0	9	9	196	**8**	204	**16**	194	210
Total Volume	1	52	53	1177	21	1198	34	786	820
% App. Total	1.9	98.1		98.2	1.8		4.1	95.9	
PHF	.250	.722	.736	.793	.656	.797	.531	.805	.823

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City of Irwindale
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Groups Printed- Passenger Vehicles

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	3	3	298	3	301	4	112	116	420
07:15 AM	0	2	2	335	2	337	4	107	111	450
07:30 AM	1	2	3	262	1	263	6	146	152	418
07:45 AM	0	0	0	172	6	178	4	212	216	394
Total	1	7	8	1067	12	1079	18	577	595	1682
08:00 AM	1	1	2	186	6	192	1	155	156	350
08:15 AM	0	3	3	207	2	209	7	151	158	370
08:30 AM	0	3	3	192	2	194	6	176	182	379
08:45 AM	0	6	6	147	0	147	4	159	163	316
Total	1	13	14	732	10	742	18	641	659	1415
Grand Total	2	20	22	1799	22	1821	36	1218	1254	3097
Apprch %	9.1	90.9		98.8	1.2		2.9	97.1		
Total %	0.1	0.6	0.7	58.1	0.7	58.8	1.2	39.3	40.5	

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	0	**3**	**3**	298	3	301	4	112	116	420
07:15 AM	0	2	2	**335**	2	**337**	4	107	111	**450**
07:30 AM	**1**	2	3	262	1	263	**6**	146	152	418
07:45 AM	0	0	0	172	**6**	178	4	**212**	**216**	394
Total Volume	1	7	8	1067	12	1079	18	577	595	1682
% App. Total	12.5	87.5		98.9	1.1		3	97		
PHF	.250	.583	.667	.796	.500	.800	.750	.680	.689	.934

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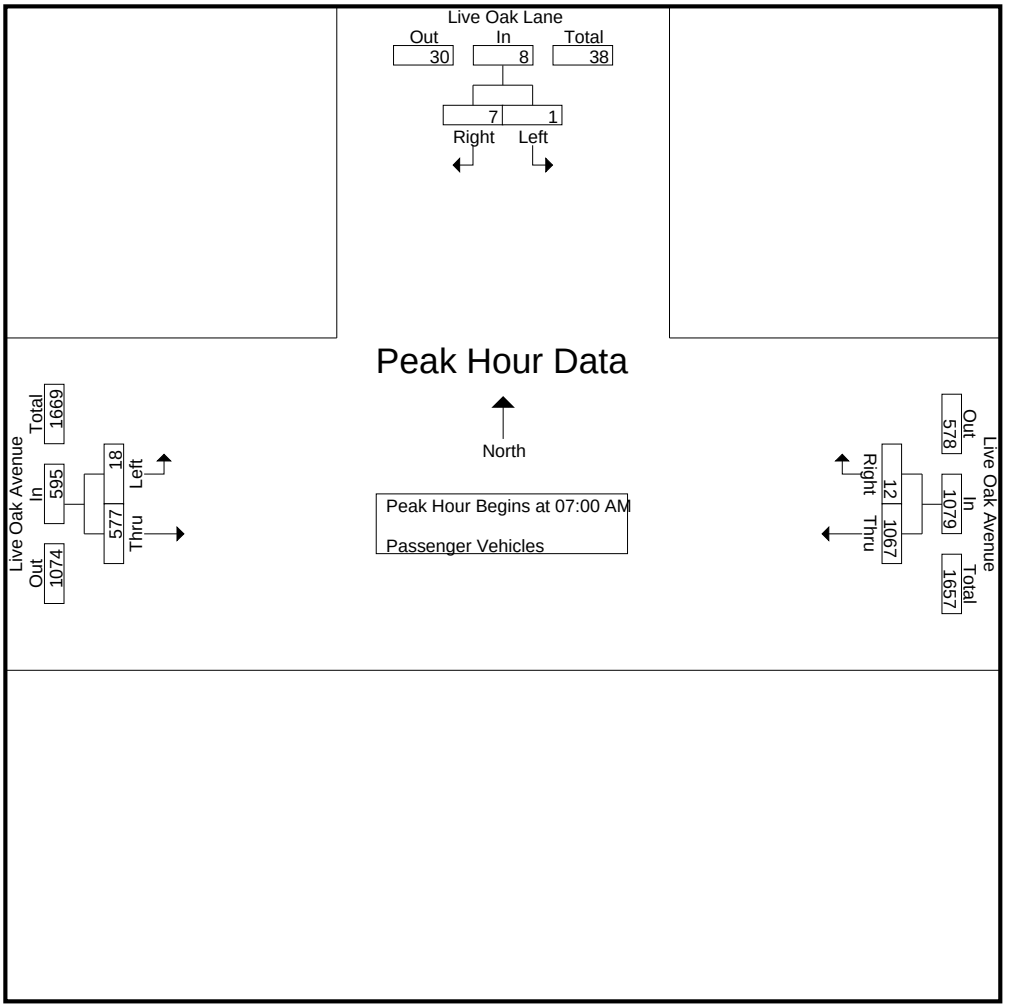

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	**3**	**3**	298	3	301	4	112	116
+15 mins.	0	2	2	**335**	2	**337**	4	107	111
+30 mins.	**1**	2	3	262	1	263	**6**	146	152
+45 mins.	0	0	0	172	**6**	178	4	**212**	**216**
Total Volume	1	7	8	1067	12	1079	18	577	595
% App. Total	12.5	87.5		98.9	1.1		3	97	
PHF	.250	.583	.667	.796	.500	.800	.750	.680	.689

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City of Irwindale
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E/W: Live Oak Avenue
Weather: Clear

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Groups Printed- Large 2 Axle Vehicles

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	2	2	20	0	20	2	15	17	39
07:15 AM	0	0	0	22	0	22	0	15	15	37
07:30 AM	0	0	0	18	0	18	0	13	13	31
07:45 AM	0	0	0	13	0	13	0	14	14	27
Total	0	2	2	73	0	73	2	57	59	134
08:00 AM	0	1	1	18	0	18	0	12	12	31
08:15 AM	0	1	1	8	1	9	0	8	8	18
08:30 AM	0	1	1	12	0	12	0	7	7	20
08:45 AM	0	0	0	5	1	6	1	8	9	15
Total	0	3	3	43	2	45	1	35	36	84
Grand Total	0	5	5	116	2	118	3	92	95	218
Apprch %	0	100		98.3	1.7		3.2	96.8		
Total %	0	2.3	2.3	53.2	0.9	54.1	1.4	42.2	43.6	

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	0	**2**	**2**	20	0	20	**2**	**15**	**17**	**39**
07:15 AM	0	0	0	**22**	0	**22**	0	15	15	37
07:30 AM	0	0	0	18	0	18	0	13	13	31
07:45 AM	0	0	0	13	0	13	0	14	14	27
Total Volume	0	2	2	73	0	73	2	57	59	134
% App. Total	0	100		100	0		3.4	96.6		
PHF	.000	.250	.250	.830	.000	.830	.250	.950	.868	.859

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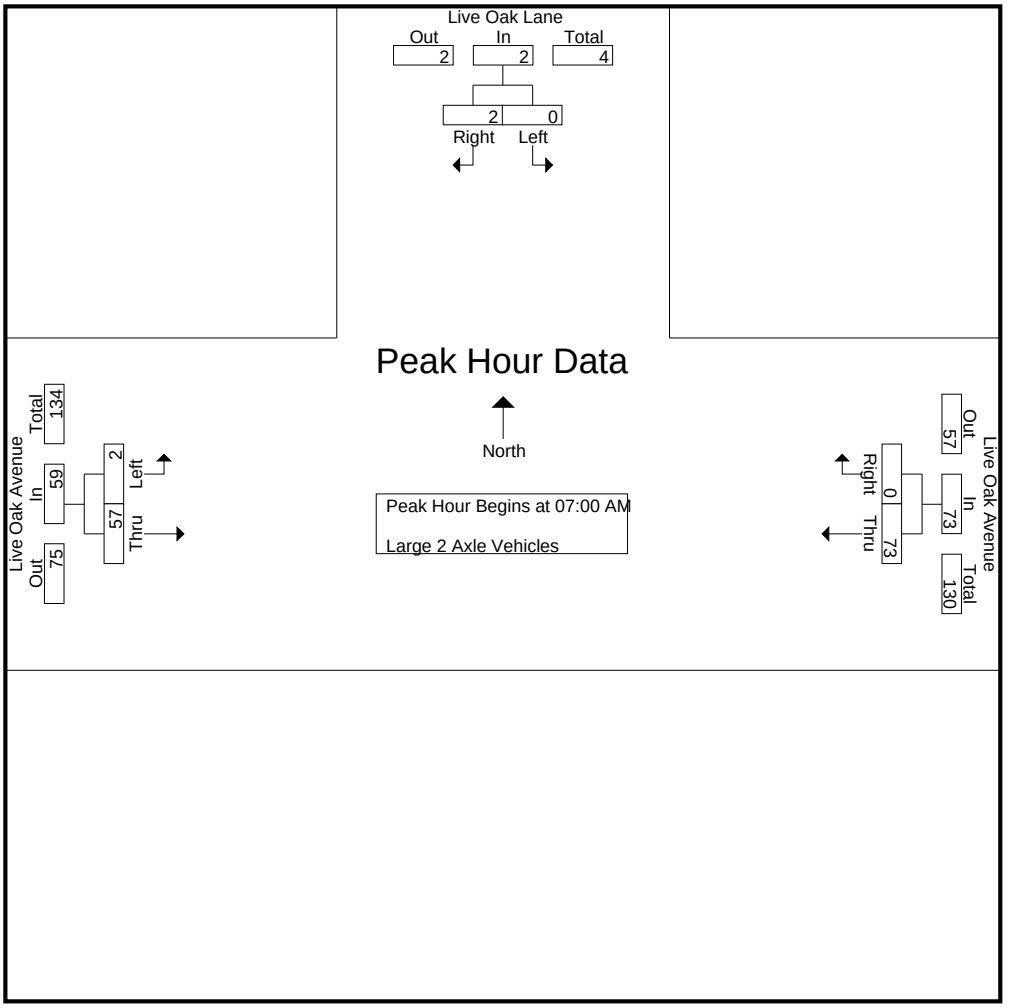

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	**2**	**2**	20	0	20	**2**	**15**	**17**
+15 mins.	0	0	0	**22**	0	**22**	0	15	15
+30 mins.	0	0	0	18	0	18	0	13	13
+45 mins.	0	0	0	13	0	13	0	14	14
Total Volume	0	2	2	73	0	73	2	57	59
% App. Total	0	100		100	0		3.4	96.6	
PHF	.000	.250	.250	.830	.000	.830	.250	.950	.868

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City of Irwindale
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E/W: Live Oak Avenue
Weather: Clear

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Groups Printed- 3 Axle Vehicles

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	10	10	1	1	2	1	2	3	15
07:15 AM	0	8	8	5	3	8	1	4	5	21
07:30 AM	0	10	10	1	2	3	0	2	2	15
07:45 AM	0	8	8	4	2	6	0	8	8	22
Total	0	36	36	11	8	19	2	16	18	73
08:00 AM	0	7	7	5	0	5	1	4	5	17
08:15 AM	0	2	2	4	3	7	3	2	5	14
08:30 AM	0	5	5	3	3	6	9	6	15	26
08:45 AM	0	12	12	6	2	8	6	4	10	30
Total	0	26	26	18	8	26	19	16	35	87
Grand Total	0	62	62	29	16	45	21	32	53	160
Apprch %	0	100		64.4	35.6		39.6	60.4		
Total %	0	38.8	38.8	18.1	10	28.1	13.1	20	33.1	

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	0	**10**	**10**	1	1	2	**1**	2	3	15
07:15 AM	0	8	8	**5**	**3**	**8**	1	4	5	21
07:30 AM	0	10	10	1	2	3	0	2	2	15
07:45 AM	0	8	8	4	2	6	0	**8**	**8**	**22**
Total Volume	0	36	36	11	8	19	2	16	18	73
% App. Total	0	100		57.9	42.1		11.1	88.9		
PHF	.000	.900	.900	.550	.667	.594	.500	.500	.563	.830

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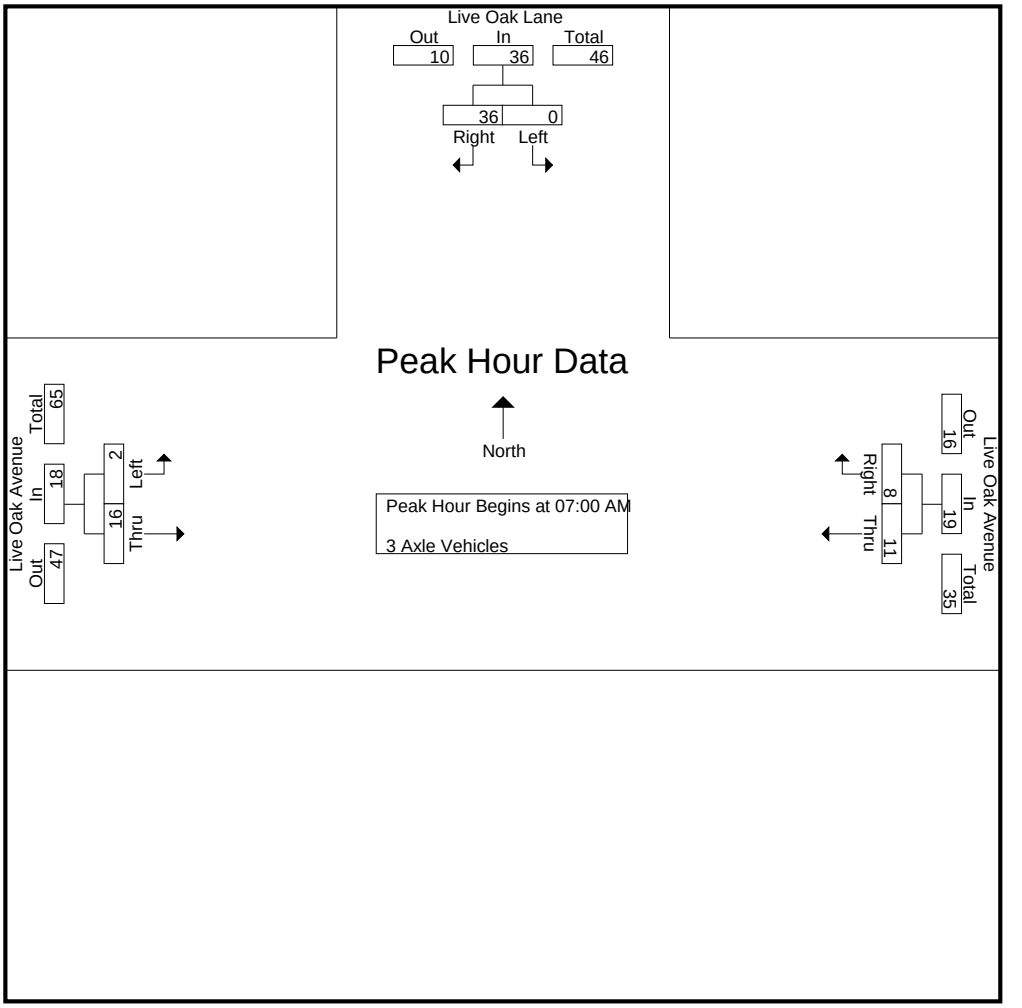

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	**10**	**10**	1	1	2	**1**	2	3
+15 mins.	0	8	8	**5**	**3**	**8**	1	4	5
+30 mins.	0	10	10	1	2	3	0	2	2
+45 mins.	0	8	8	4	2	6	0	**8**	**8**
Total Volume	0	36	36	11	8	19	2	16	18
% App. Total	0	100		57.9	42.1		11.1	88.9	
PHF	.000	.900	.900	.550	.667	.594	.500	.500	.563

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Groups Printed- 4+ Axle Trucks

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	3	3	3	1	4	0	3	3	10
07:15 AM	0	2	2	9	0	9	1	5	6	17
07:30 AM	0	1	1	7	0	7	2	7	9	17
07:45 AM	0	1	1	7	0	7	1	10	11	19
Total	0	7	7	26	1	27	4	25	29	63
08:00 AM	0	0	0	7	0	7	0	8	8	15
08:15 AM	0	1	1	9	0	9	1	8	9	19
08:30 AM	0	2	2	10	0	10	1	5	6	18
08:45 AM	0	5	5	11	0	11	2	11	13	29
Total	0	8	8	37	0	37	4	32	36	81
Grand Total	0	15	15	63	1	64	8	57	65	144
Apprch %	0	100		98.4	1.6		12.3	87.7		
Total %	0	10.4	10.4	43.8	0.7	44.4	5.6	39.6	45.1	

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	0	**3**	**3**	3	**1**	4	0	3	3	10
07:15 AM	0	2	2	**9**	0	**9**	1	5	6	17
07:30 AM	0	1	1	7	0	7	**2**	7	9	17
07:45 AM	0	1	1	7	0	7	1	**10**	**11**	**19**
Total Volume	0	7	7	26	1	27	4	25	29	63
% App. Total	0	100		96.3	3.7		13.8	86.2		
PHF	.000	.583	.583	.722	.250	.750	.500	.625	.659	.829

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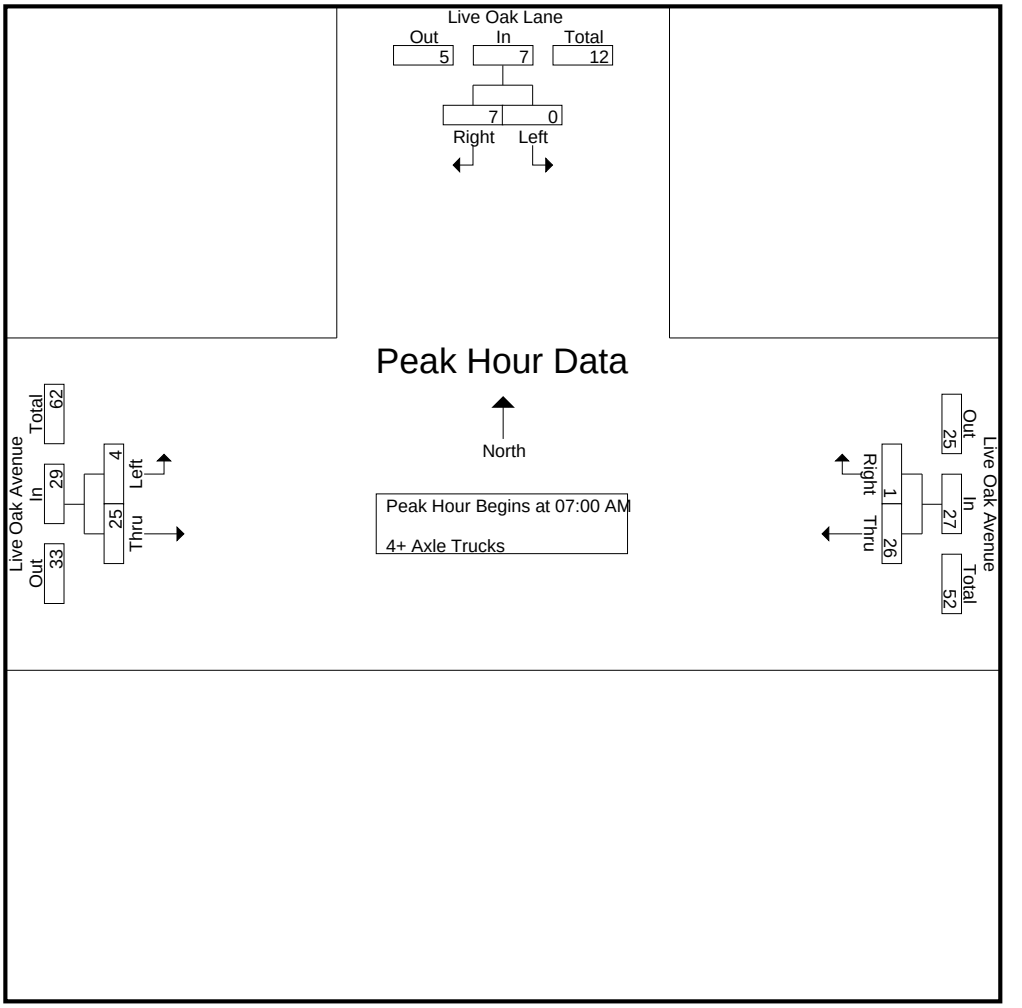

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	**3**	**3**	3	**1**	4	0	3	3
+15 mins.	0	2	2	**9**	0	**9**	1	5	6
+30 mins.	0	1	1	7	0	7	**2**	7	9
+45 mins.	0	1	1	7	0	7	1	**10**	**11**
Total Volume	0	7	7	26	1	27	4	25	29
% App. Total	0	100		96.3	3.7		13.8	86.2	
PHF	.000	.583	.583	.722	.250	.750	.500	.625	.659

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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	2	10	12	164	1	165	7	372	379	556
04:15 PM	1	10	11	181	1	182	8	400	408	601
04:30 PM	2	7	9	221	2	223	5	373	378	610
04:45 PM	1	7	8	184	1	185	9	427	436	629
Total	6	34	40	750	5	755	29	1572	1601	2396
05:00 PM	2	12	14	235	3	238	2	430	432	684
05:15 PM	1	5	6	228	1	229	7	417	424	659
05:30 PM	0	6	6	211	0	211	4	421	425	642
05:45 PM	0	8	8	175	1	176	3	396	399	583
Total	3	31	34	849	5	854	16	1664	1680	2568
Grand Total	9	65	74	1599	10	1609	45	3236	3281	4964
Apprch %	12.2	87.8		99.4	0.6		1.4	98.6		
Total %	0.2	1.3	1.5	32.2	0.2	32.4	0.9	65.2	66.1	
Passenger Vehicles	9	51	60	1521	6	1527	24	3097	3121	4708
% Passenger Vehicles	100	78.5	81.1	95.1	60	94.9	53.3	95.7	95.1	94.8
Large 2 Axle Vehicles	0	2	2	43	1	44	2	100	102	148
% Large 2 Axle Vehicles	0	3.1	2.7	2.7	10	2.7	4.4	3.1	3.1	3
3 Axle Vehicles	0	7	7	7	3	10	10	12	22	39
% 3 Axle Vehicles	0	10.8	9.5	0.4	30	0.6	22.2	0.4	0.7	0.8
4+ Axle Trucks	0	5	5	28	0	28	9	27	36	69
% 4+ Axle Trucks	0	7.7	6.8	1.8	0	1.7	20	0.8	1.1	1.4

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	1	7	8	184	1	185	**9**	427	**436**	629
05:00 PM	**2**	**12**	**14**	**235**	**3**	**238**	2	**430**	432	**684**
05:15 PM	1	5	6	228	1	229	7	417	424	659
05:30 PM	0	6	6	211	0	211	4	421	425	642
Total Volume	4	30	34	858	5	863	22	1695	1717	2614
% App. Total	11.8	88.2		99.4	0.6		1.3	98.7		
PHF	.500	.625	.607	.913	.417	.907	.611	.985	.985	.955

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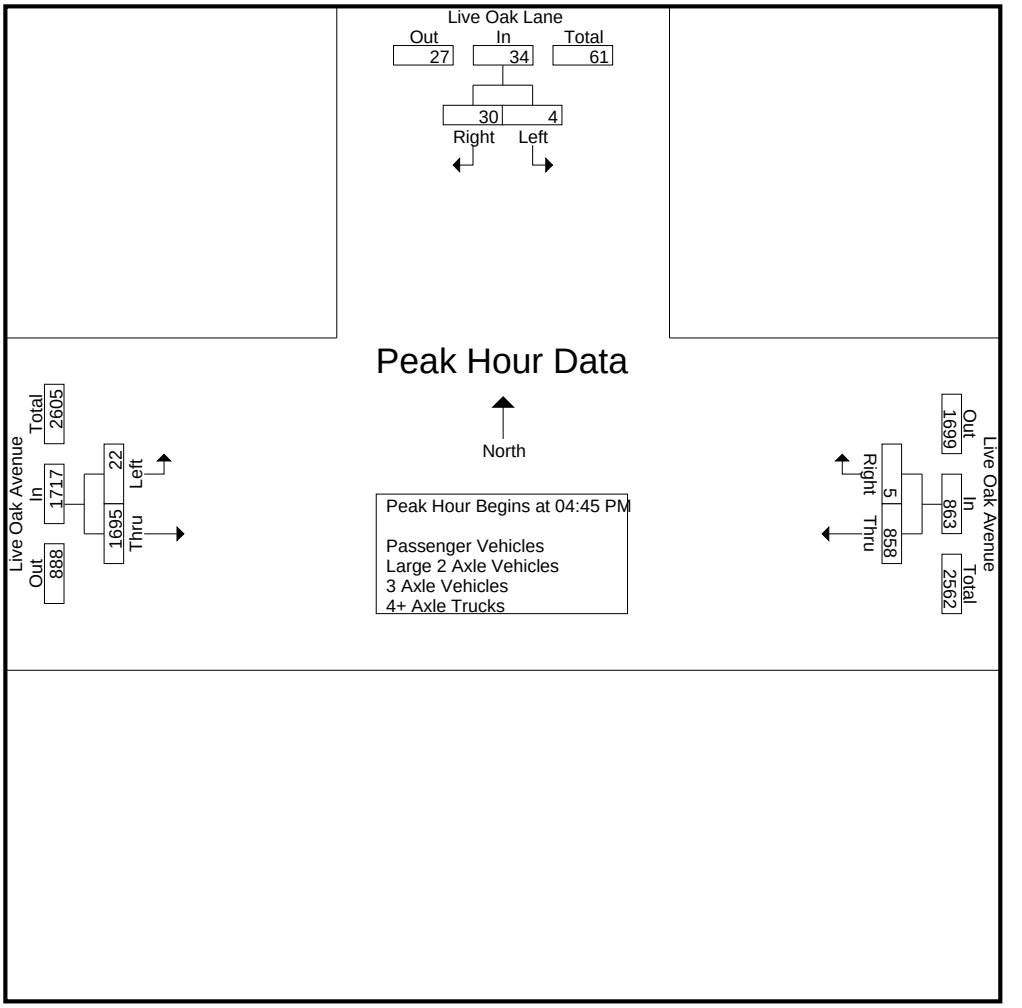

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM			04:30 PM			04:45 PM		
+0 mins.	1	10	11	221	2	223	**9**	427	**436**
+15 mins.	**2**	7	9	184	1	185	2	**430**	432
+30 mins.	1	7	8	**235**	**3**	**238**	7	417	424
+45 mins.	2	**12**	**14**	228	1	229	4	421	425
Total Volume	6	36	42	868	7	875	22	1695	1717
% App. Total	14.3	85.7		99.2	0.8		1.3	98.7	
PHF	.750	.750	.750	.923	.583	.919	.611	.985	.985

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City of Irwindale
N/S: Live Oak Lane
E/W: Live Oak Avenue
Weather: Clear

File Name : 03_IRW_Live Oak Ln_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- Passenger Vehicles

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	2	8	10	149	1	150	5	348	353	513
04:15 PM	1	8	9	169	1	170	4	380	384	563
04:30 PM	2	5	7	206	1	207	3	351	354	568
04:45 PM	1	7	8	174	0	174	6	406	412	594
Total	6	28	34	698	3	701	18	1485	1503	2238
05:00 PM	2	11	13	228	2	230	1	417	418	661
05:15 PM	1	4	5	221	1	222	1	405	406	633
05:30 PM	0	5	5	205	0	205	3	410	413	623
05:45 PM	0	3	3	169	0	169	1	380	381	553
Total	3	23	26	823	3	826	6	1612	1618	2470
Grand Total	9	51	60	1521	6	1527	24	3097	3121	4708
Apprch %	15	85		99.6	0.4		0.8	99.2		
Total %	0.2	1.1	1.3	32.3	0.1	32.4	0.5	65.8	66.3	

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	1	7	8	174	0	174	**6**	406	412	594
05:00 PM	**2**	**11**	**13**	**228**	**2**	**230**	1	**417**	**418**	**661**
05:15 PM	1	4	5	221	1	222	1	405	406	633
05:30 PM	0	5	5	205	0	205	3	410	413	623
Total Volume	4	27	31	828	3	831	11	1638	1649	2511
% App. Total	12.9	87.1		99.6	0.4		0.7	99.3		
PHF	.500	.614	.596	.908	.375	.903	.458	.982	.986	.950

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City of Irwindale
N/S: Live Oak Lane
E/W: Live Oak Avenue
Weather: Clear

File Name : 03_IRW_Live Oak Ln_Live Oak PM
Site Code : 22518834
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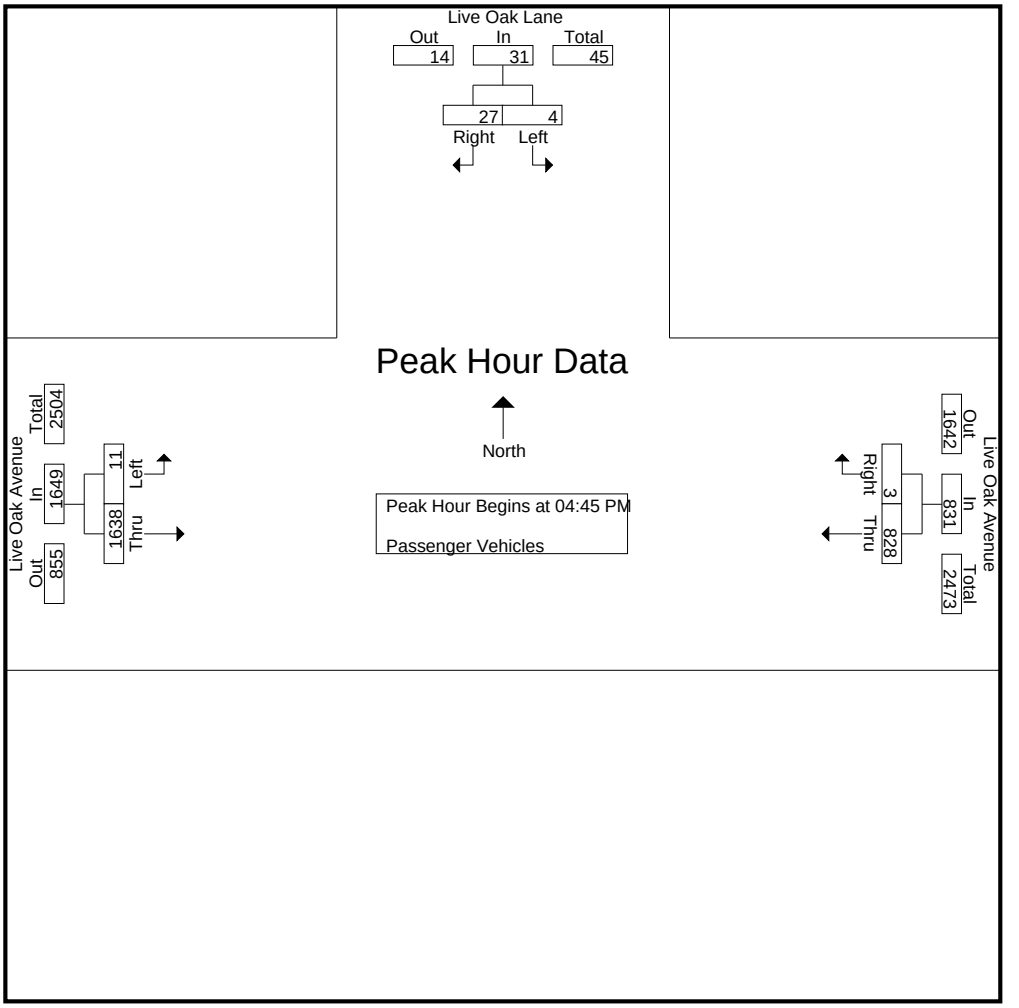

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	1	7	8	174	0	174	**6**	406	412
+15 mins.	**2**	**11**	**13**	**228**	**2**	**230**	1	**417**	**418**
+30 mins.	1	4	5	221	1	222	1	405	406
+45 mins.	0	5	5	205	0	205	3	410	413
Total Volume	4	27	31	828	3	831	11	1638	1649
% App. Total	12.9	87.1		99.6	0.4		0.7	99.3	
PHF	.500	.614	.596	.908	.375	.903	.458	.982	.986

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City of Irwindale
N/S: Live Oak Lane
E/W: Live Oak Avenue
Weather: Clear

File Name : 03_IRW_Live Oak Ln_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018

Groups Printed- Large 2 Axle Vehicles

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	11	0	11	1	18	19	30
04:15 PM	0	1	1	3	0	3	1	15	16	20
04:30 PM	0	0	0	10	0	10	0	14	14	24
04:45 PM	0	0	0	7	0	7	0	16	16	23
Total	0	1	1	31	0	31	2	63	65	97
05:00 PM	0	0	0	2	1	3	0	10	10	13
05:15 PM	0	0	0	3	0	3	0	11	11	14
05:30 PM	0	0	0	3	0	3	0	9	9	12
05:45 PM	0	1	1	4	0	4	0	7	7	12
Total	0	1	1	12	1	13	0	37	37	51
Grand Total	0	2	2	43	1	44	2	100	102	148
Apprch %	0	100		97.7	2.3		2	98		
Total %	0	1.4	1.4	29.1	0.7	29.7	1.4	67.6	68.9	

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	0	0	0	**7**	0	**7**	0	**16**	**16**	**23**
05:00 PM	0	0	0	2	**1**	3	0	10	10	13
05:15 PM	0	0	0	3	0	3	0	11	11	14
05:30 PM	0	0	0	3	0	3	0	9	9	12
Total Volume	0	0	0	15	1	16	0	46	46	62
% App. Total	0	0		93.8	6.2		0	100		
PHF	.000	.000	.000	.536	.250	.571	.000	.719	.719	.674

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City of Irwindale
N/S: Live Oak Lane
E/W: Live Oak Avenue
Weather: Clear

File Name : 03_IRW_Live Oak Ln_Live Oak PM
Site Code : 22518834
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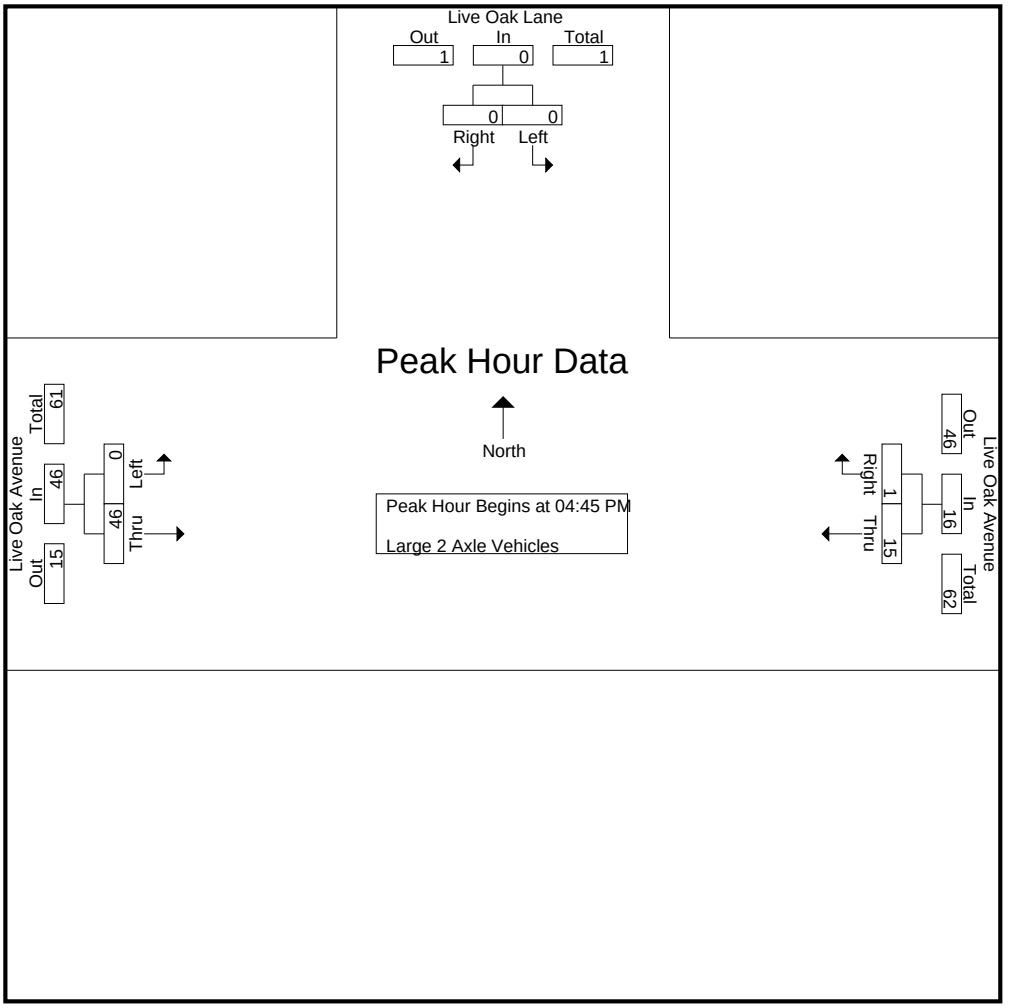

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	0	0	0	**7**	0	**7**	0	**16**	**16**
+15 mins.	0	0	0	2	**1**	3	0	10	10
+30 mins.	0	0	0	3	0	3	0	11	11
+45 mins.	0	0	0	3	0	3	0	9	9
Total Volume	0	0	0	15	1	16	0	46	46
% App. Total	0	0		93.8	6.2		0	100	
PHF	.000	.000	.000	.536	.250	.571	.000	.719	.719

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City of Irwindale
N/S: Live Oak Lane
E/W: Live Oak Avenue
Weather: Clear

File Name : 03_IRW_Live Oak Ln_Live Oak PM
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Groups Printed- 3 Axle Vehicles

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	2	2	2	0	2	1	3	4	8
04:15 PM	0	0	0	1	0	1	2	1	3	4
04:30 PM	0	1	1	1	1	2	1	2	3	6
04:45 PM	0	0	0	0	1	1	1	2	3	4
Total	0	3	3	4	2	6	5	8	13	22
05:00 PM	0	1	1	1	0	1	1	1	2	4
05:15 PM	0	0	0	1	0	1	3	1	4	5
05:30 PM	0	1	1	1	0	1	0	1	1	3
05:45 PM	0	2	2	0	1	1	1	1	2	5
Total	0	4	4	3	1	4	5	4	9	17
Grand Total	0	7	7	7	3	10	10	12	22	39
Apprch %	0	100		70	30		45.5	54.5		
Total %	0	17.9	17.9	17.9	7.7	25.6	25.6	30.8	56.4	

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	0	0	0	0	**1**	**1**	1	**2**	3	4
05:00 PM	0	**1**	**1**	**1**	0	1	1	1	2	4
05:15 PM	0	0	0	1	0	1	**3**	1	**4**	**5**
05:30 PM	0	1	1	1	0	1	0	1	1	3
Total Volume	0	2	2	3	1	4	5	5	10	16
% App. Total	0	100		75	25		50	50		
PHF	.000	.500	.500	.750	.250	1.00	.417	.625	.625	.800

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City of Irwindale
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E/W: Live Oak Avenue
Weather: Clear

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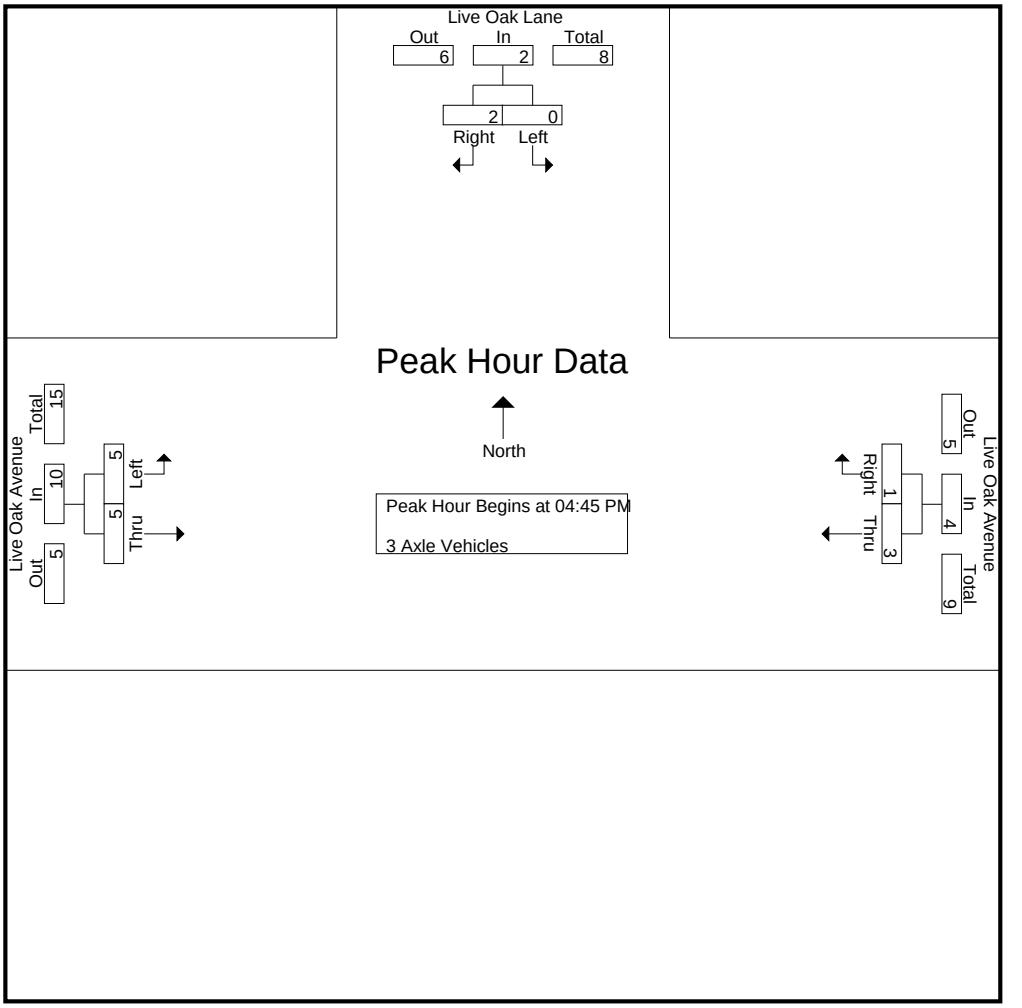

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	0	0	0	0	**1**	**1**	1	**2**	3
+15 mins.	0	**1**	**1**	**1**	0	1	1	1	2
+30 mins.	0	0	0	1	0	1	**3**	1	**4**
+45 mins.	0	1	1	1	0	1	0	1	1
Total Volume	0	2	2	3	1	4	5	5	10
% App. Total	0	100		75	25		50	50	
PHF	.000	.500	.500	.750	.250	1.000	.417	.625	.625

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City of Irwindale
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E/W: Live Oak Avenue
Weather: Clear

File Name : 03_IRW_Live Oak Ln_Live Oak PM
Site Code : 22518834
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Groups Printed- 4+ Axle Trucks

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	2	0	2	0	3	3	5
04:15 PM	0	1	1	8	0	8	1	4	5	14
04:30 PM	0	1	1	4	0	4	1	6	7	12
04:45 PM	0	0	0	3	0	3	2	3	5	8
Total	0	2	2	17	0	17	4	16	20	39
05:00 PM	0	0	0	4	0	4	0	2	2	6
05:15 PM	0	1	1	3	0	3	3	0	3	7
05:30 PM	0	0	0	2	0	2	1	1	2	4
05:45 PM	0	2	2	2	0	2	1	8	9	13
Total	0	3	3	11	0	11	5	11	16	30
Grand Total	0	5	5	28	0	28	9	27	36	69
Apprch %	0	100		100	0		25	75		
Total %	0	7.2	7.2	40.6	0	40.6	13	39.1	52.2	

	Live Oak Lane Southbound			Live Oak Avenue Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	0	0	0	3	0	3	2	**3**	**5**	**8**
05:00 PM	0	0	0	**4**	0	**4**	0	2	2	6
05:15 PM	0	**1**	**1**	3	0	3	**3**	0	3	7
05:30 PM	0	0	0	2	0	2	1	1	2	4
Total Volume	0	1	1	12	0	12	6	6	12	25
% App. Total	0	100		100	0		50	50		
PHF	.000	.250	.250	.750	.000	.750	.500	.500	.600	.781

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City of Irwindale
N/S: Live Oak Lane
E/W: Live Oak Avenue
Weather: Clear

File Name : 03_IRW_Live Oak Ln_Live Oak PM
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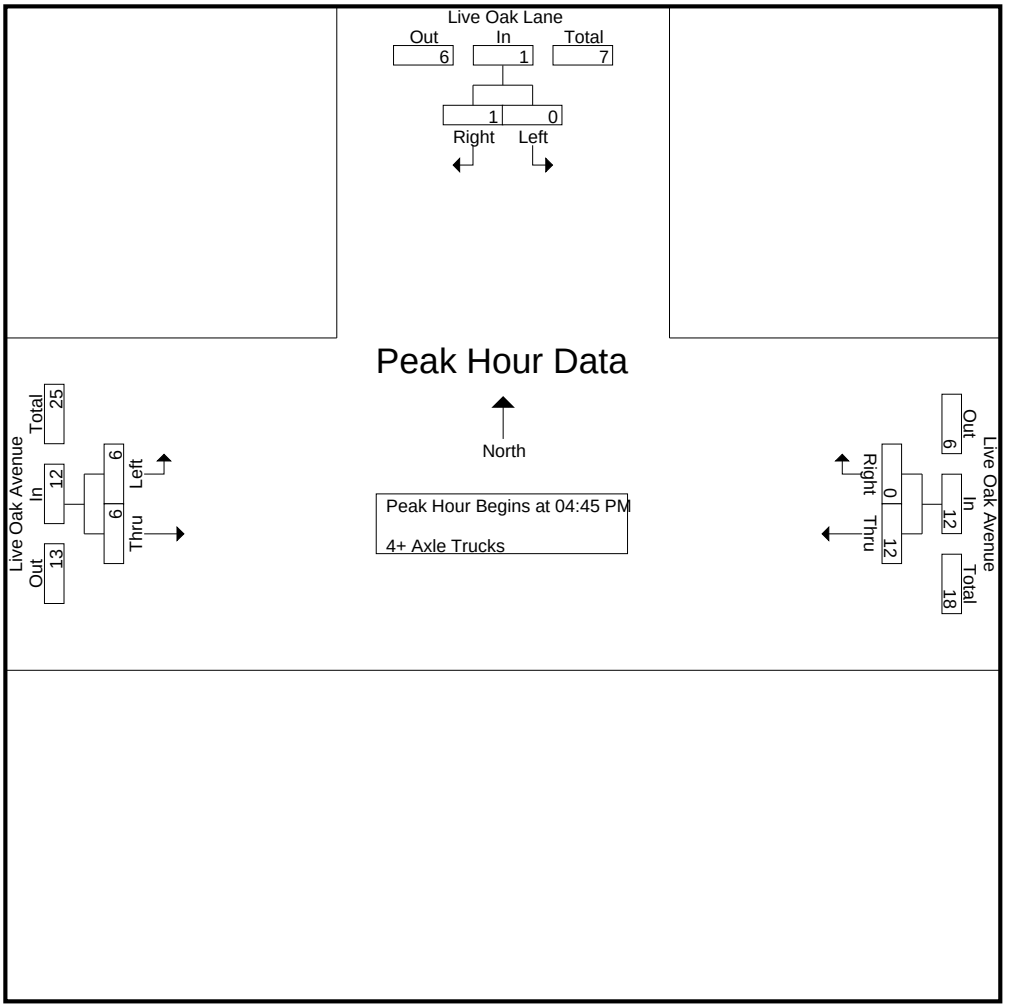

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	0	0	0	3	0	3	2	**3**	**5**
+15 mins.	0	0	0	**4**	0	**4**	0	2	2
+30 mins.	0	**1**	**1**	3	0	3	**3**	0	3
+45 mins.	0	0	0	2	0	2	1	1	2
Total Volume	0	1	1	12	0	12	6	6	12
% App. Total	0	100		100	0		50	50	
PHF	.000	.250	.250	.750	.000	.750	.500	.500	.600

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City of Irwindale
N/S: Rivergrade Road
E/W: Live Oak Avenue
Weather: Clear

File Name : 04_IRW_Rivergrade_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	2	26	9	37	64	303	3	370	10	6	22	38	21	110	7	138	583
07:15 AM	5	24	11	40	84	364	3	451	19	10	13	42	18	98	11	127	660
07:30 AM	4	58	10	72	92	264	0	356	14	15	27	56	26	138	9	173	657
07:45 AM	4	78	14	96	77	174	3	254	16	14	44	74	18	201	17	236	660
Total	15	186	44	245	317	1105	9	1431	59	45	106	210	83	547	44	674	2560
08:00 AM	3	70	8	81	69	203	4	276	20	9	36	65	13	151	24	188	610
08:15 AM	5	63	9	77	73	220	1	294	5	18	34	57	13	141	18	172	600
08:30 AM	5	38	9	52	50	200	3	253	10	6	26	42	15	170	27	212	559
08:45 AM	2	48	6	56	61	156	1	218	7	12	33	52	16	144	26	186	512
Total	15	219	32	266	253	779	9	1041	42	45	129	216	57	606	95	758	2281
Grand Total	30	405	76	511	570	1884	18	2472	101	90	235	426	140	1153	139	1432	4841
Apprch %	5.9	79.3	14.9		23.1	76.2	0.7		23.7	21.1	55.2		9.8	80.5	9.7		
Total %	0.6	8.4	1.6	10.6	11.8	38.9	0.4	51.1	2.1	1.9	4.9	8.8	2.9	23.8	2.9	29.6	
Passenger Vehicles	28	381	30	439	533	1703	8	2244	91	54	207	352	77	1031	131	1239	4274
% Passenger Vehicles	93.3	94.1	39.5	85.9	93.5	90.4	44.4	90.8	90.1	60	88.1	82.6	55	89.4	94.2	86.5	88.3
Large 2 Axle Vehicles	2	5	15	22	20	98	2	120	3	7	8	18	18	63	5	86	246
% Large 2 Axle Vehicles	6.7	1.2	19.7	4.3	3.5	5.2	11.1	4.9	3	7.8	3.4	4.2	12.9	5.5	3.6	6	5.1
3 Axle Vehicles	0	4	9	13	3	31	3	37	2	3	5	10	9	18	1	28	88
% 3 Axle Vehicles	0	1	11.8	2.5	0.5	1.6	16.7	1.5	2	3.3	2.1	2.3	6.4	1.6	0.7	2	1.8
4+ Axle Trucks	0	15	22	37	14	52	5	71	5	26	15	46	36	41	2	79	233
% 4+ Axle Trucks	0	3.7	28.9	7.2	2.5	2.8	27.8	2.9	5	28.9	6.4	10.8	25.7	3.6	1.4	5.5	4.8

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	**5**	24	11	40	84	**364**	3	**451**	19	10	13	42	18	98	11	127	**660**
07:30 AM	4	58	10	72	**92**	264	0	356	14	**15**	27	56	**26**	138	9	173	657
07:45 AM	4	**78**	**14**	**96**	77	174	3	254	16	14	**44**	**74**	18	**201**	17	**236**	660
08:00 AM	3	70	8	81	69	203	**4**	276	**20**	9	36	65	13	151	**24**	188	610
Total Volume	16	230	43	289	322	1005	10	1337	69	48	120	237	75	588	61	724	2587
% App. Total	5.5	79.6	14.9		24.1	75.2	0.7		29.1	20.3	50.6		10.4	81.2	8.4		
PHF	.800	.737	.768	.753	.875	.690	.625	.741	.863	.800	.682	.801	.721	.731	.635	.767	.980

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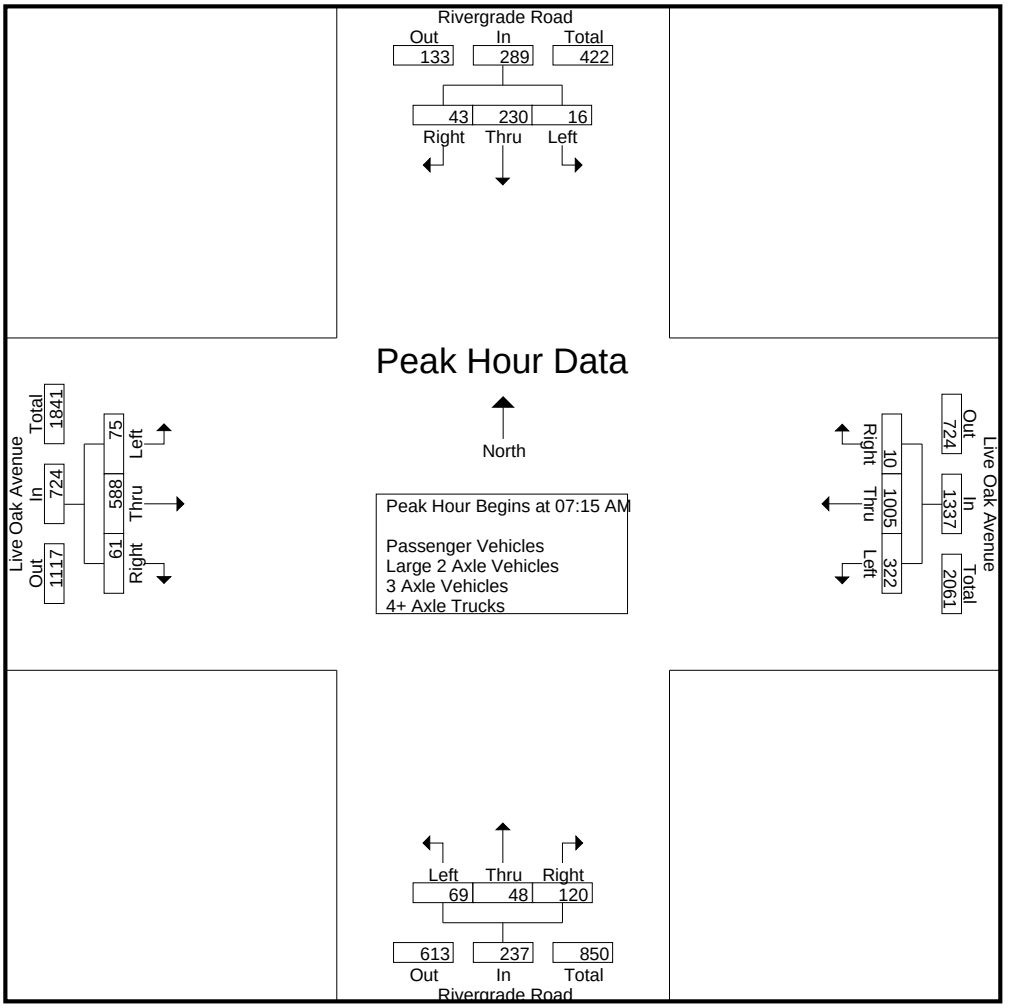

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:00 AM				07:30 AM				07:45 AM			
+0 mins.	4	58	10	72	64	303	**3**	370	14	15	27	56	**18**	**201**	17	**236**
+15 mins.	4	**78**	**14**	**96**	84	**364**	3	**451**	16	14	**44**	**74**	13	151	24	188
+30 mins.	3	70	8	81	**92**	264	0	356	**20**	9	36	65	13	141	18	172
+45 mins.	**5**	63	9	77	77	174	3	254	5	**18**	34	57	15	170	**27**	212
Total Volume	16	269	41	326	317	1105	9	1431	55	56	141	252	59	663	86	808
% App. Total	4.9	82.5	12.6		22.2	77.2	0.6		21.8	22.2	56		7.3	82.1	10.6	
PHF	.800	.862	.732	.849	.861	.759	.750	.793	.688	.778	.801	.851	.819	.825	.796	.856

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City of Irwindale
N/S: Rivergrade Road
E/W: Live Oak Avenue
Weather: Clear

File Name : 04_IRW_Rivergrade_Live Oak AM
Site Code : 22518834
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Groups Printed- Passenger Vehicles

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	2	24	7	33	59	277	1	337	10	5	19	34	10	99	6	115	519
07:15 AM	4	24	6	34	79	329	1	409	19	7	10	36	10	85	11	106	585
07:30 AM	4	54	4	62	86	244	0	330	13	11	24	48	15	124	9	148	588
07:45 AM	3	75	4	82	72	156	3	231	15	8	42	65	10	180	14	204	582
Total	13	177	21	211	296	1006	5	1307	57	31	95	183	45	488	40	573	2274
08:00 AM	3	66	2	71	66	182	1	249	17	4	35	56	7	137	23	167	543
08:15 AM	5	61	0	66	68	203	1	272	5	9	29	43	4	125	16	145	526
08:30 AM	5	38	5	48	46	179	1	226	6	3	21	30	11	154	27	192	496
08:45 AM	2	39	2	43	57	133	0	190	6	7	27	40	10	127	25	162	435
Total	15	204	9	228	237	697	3	937	34	23	112	169	32	543	91	666	2000
Grand Total	28	381	30	439	533	1703	8	2244	91	54	207	352	77	1031	131	1239	4274
Apprch %	6.4	86.8	6.8		23.8	75.9	0.4		25.9	15.3	58.8		6.2	83.2	10.6		
Total %	0.7	8.9	0.7	10.3	12.5	39.8	0.2	52.5	2.1	1.3	4.8	8.2	1.8	24.1	3.1	29	

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	**4**	24	**6**	34	79	**329**	1	**409**	**19**	7	10	36	10	85	11	106	585
07:30 AM	4	54	4	62	**86**	244	0	330	13	**11**	24	48	**15**	124	9	148	**588**
07:45 AM	3	**75**	4	**82**	72	156	**3**	231	15	8	**42**	**65**	10	**180**	14	**204**	582
08:00 AM	3	66	2	71	66	182	1	249	17	4	35	56	7	137	**23**	167	543
Total Volume	14	219	16	249	303	911	5	1219	64	30	111	205	42	526	57	625	2298
% App. Total	5.6	88	6.4		24.9	74.7	0.4		31.2	14.6	54.1		6.7	84.2	9.1		
PHF	.875	.730	.667	.759	.881	.692	.417	.745	.842	.682	.661	.788	.700	.731	.620	.766	.977

Counts Unlimited
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(951) 268-6268

City of Irwindale
N/S: Rivergrade Road
E/W: Live Oak Avenue
Weather: Clear

File Name : 04_IRW_Rivergrade_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
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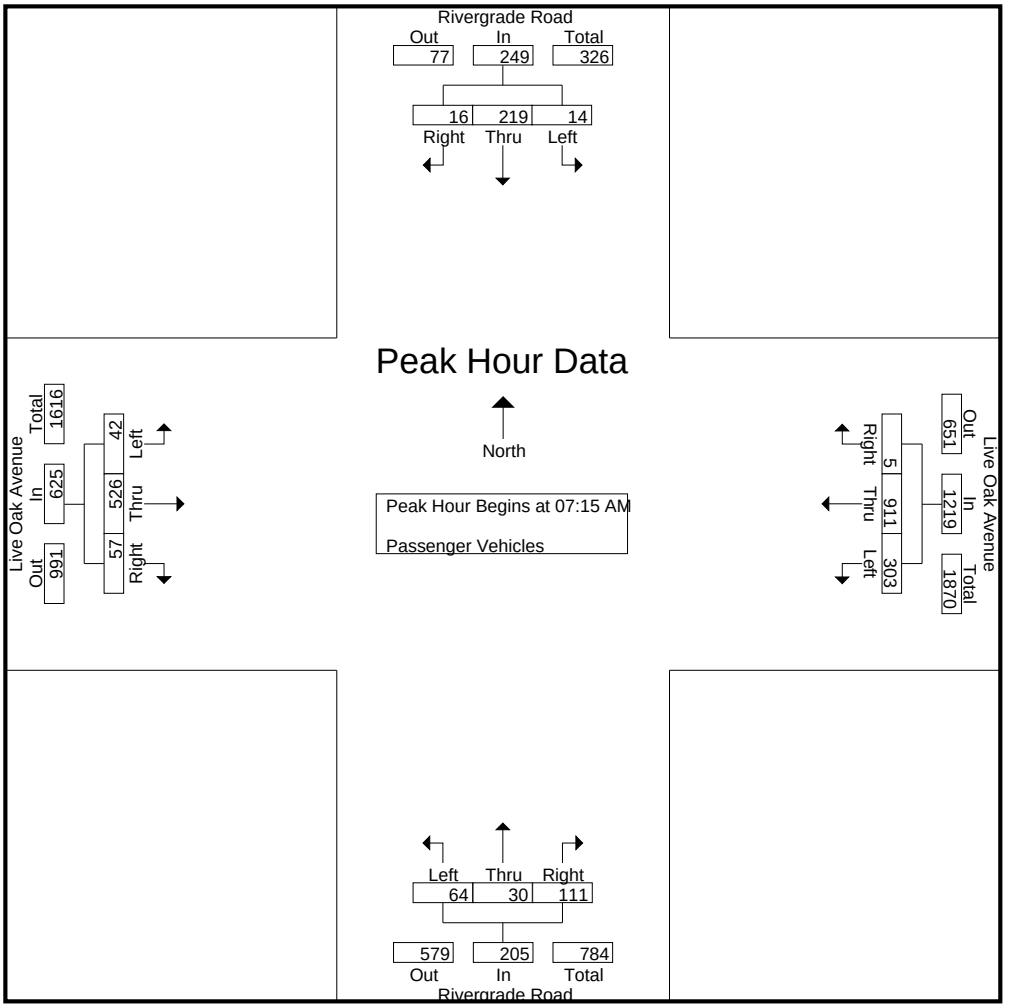

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	**4**	24	**6**	34	79	**329**	1	**409**	**19**	7	10	36	10	85	11	106
+15 mins.	4	54	4	62	**86**	244	0	330	13	**11**	24	48	**15**	124	9	148
+30 mins.	3	**75**	4	**82**	72	156	**3**	231	15	8	**42**	**65**	10	**180**	14	**204**
+45 mins.	3	66	2	71	66	182	1	249	17	4	35	56	7	137	**23**	167
Total Volume	14	219	16	249	303	911	5	1219	64	30	111	205	42	526	57	625
% App. Total	5.6	88	6.4		24.9	74.7	0.4		31.2	14.6	54.1		6.7	84.2	9.1	
PHF	.875	.730	.667	.759	.881	.692	.417	.745	.842	.682	.661	.788	.700	.731	.620	.766

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City of Irwindale
N/S: Rivergrade Road
E/W: Live Oak Avenue
Weather: Clear

File Name : 04_IRW_Rivergrade_Live Oak AM
Site Code : 22518834
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Groups Printed- Large 2 Axle Vehicles

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	1	1	3	16	0	19	0	1	0	1	6	5	0	11	32
07:15 AM	1	0	4	5	2	19	0	21	0	1	3	4	3	9	0	12	42
07:30 AM	0	1	4	5	3	11	0	14	1	0	1	2	3	10	0	13	34
07:45 AM	1	1	3	5	2	9	0	11	0	0	0	0	2	7	2	11	27
Total	2	2	12	16	10	55	0	65	1	2	4	7	14	31	2	47	135
08:00 AM	0	3	2	5	1	13	2	16	1	2	0	3	0	11	0	11	35
08:15 AM	0	0	1	1	3	9	0	12	0	3	1	4	2	8	2	12	29
08:30 AM	0	0	0	0	3	12	0	15	1	0	0	1	0	8	0	8	24
08:45 AM	0	0	0	0	3	9	0	12	0	0	3	3	2	5	1	8	23
Total	0	3	3	6	10	43	2	55	2	5	4	11	4	32	3	39	111
Grand Total	2	5	15	22	20	98	2	120	3	7	8	18	18	63	5	86	246
Apprch %	9.1	22.7	68.2		16.7	81.7	1.7		16.7	38.9	44.4		20.9	73.3	5.8		
Total %	0.8	2	6.1	8.9	8.1	39.8	0.8	48.8	1.2	2.8	3.3	7.3	7.3	25.6	2	35	

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	**1**	0	**4**	**5**	2	**19**	0	**21**	0	1	**3**	**4**	**3**	9	0	12	**42**
07:30 AM	0	1	4	5	**3**	11	0	14	**1**	0	1	2	3	10	0	**13**	34
07:45 AM	1	1	3	5	2	9	0	11	0	0	0	0	2	7	**2**	11	27
08:00 AM	0	**3**	2	5	1	13	**2**	16	1	**2**	0	3	0	**11**	0	11	35
Total Volume	2	5	13	20	8	52	2	62	2	3	4	9	8	37	2	47	138
% App. Total	10	25	65		12.9	83.9	3.2		22.2	33.3	44.4		17	78.7	4.3		
PHF	.500	.417	.813	1.00	.667	.684	.250	.738	.500	.375	.333	.563	.667	.841	.250	.904	.821

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City of Irwindale
N/S: Rivergrade Road
E/W: Live Oak Avenue
Weather: Clear

File Name : 04_IRW_Rivergrade_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
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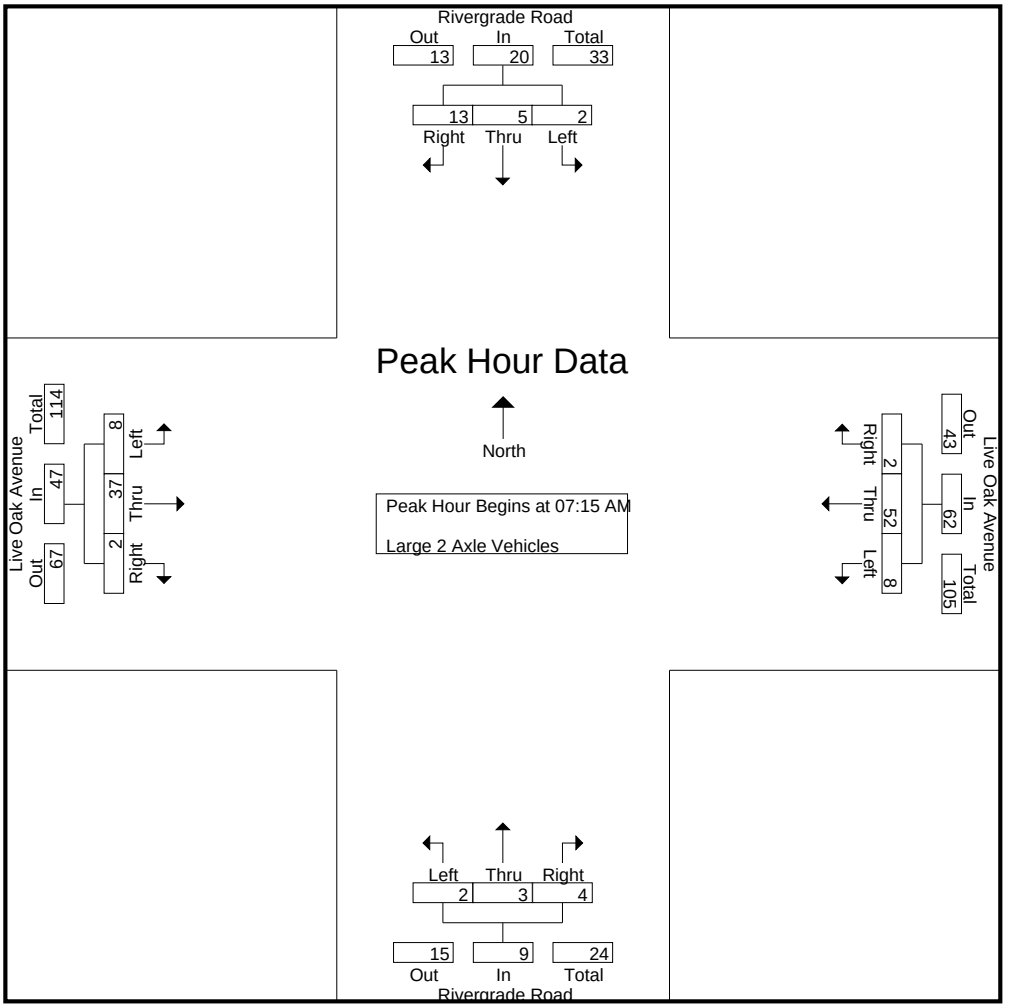

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	**1**	0	**4**	**5**	2	**19**	0	**21**	0	1	**3**	**4**	**3**	9	0	12
+15 mins.	0	1	4	5	**3**	11	0	14	**1**	0	1	2	3	10	0	**13**
+30 mins.	1	1	3	5	2	9	0	11	0	0	0	0	2	7	**2**	11
+45 mins.	0	**3**	2	5	1	13	**2**	16	1	**2**	0	3	0	**11**	0	11
Total Volume	2	5	13	20	8	52	2	62	2	3	4	9	8	37	2	47
% App. Total	10	25	65		12.9	83.9	3.2		22.2	33.3	44.4		17	78.7	4.3	
PHF	.500	.417	.813	1.000	.667	.684	.250	.738	.500	.375	.333	.563	.667	.841	.250	.904

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City of Irwindale
N/S: Rivergrade Road
E/W: Live Oak Avenue
Weather: Clear

File Name : 04_IRW_Rivergrade_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- 3 Axle Vehicles

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	1	1	2	0	0	0	0	0	0	2	2	0	1	0	1	5
07:15 AM	0	0	0	0	0	7	2	9	0	0	0	0	0	2	0	2	11
07:30 AM	0	1	0	1	0	3	0	3	0	0	1	1	1	0	0	1	6
07:45 AM	0	0	1	1	1	4	0	5	0	1	0	1	3	5	1	9	16
Total	0	2	2	4	1	14	2	17	0	1	3	4	4	8	1	13	38
08:00 AM	0	0	1	1	0	4	1	5	0	0	1	1	1	1	0	2	9
08:15 AM	0	1	3	4	2	4	0	6	0	0	1	1	2	2	0	4	15
08:30 AM	0	0	2	2	0	4	0	4	1	2	0	3	2	3	0	5	14
08:45 AM	0	1	1	2	0	5	0	5	1	0	0	1	0	4	0	4	12
Total	0	2	7	9	2	17	1	20	2	2	2	6	5	10	0	15	50
Grand Total	0	4	9	13	3	31	3	37	2	3	5	10	9	18	1	28	88
Apprch %	0	30.8	69.2		8.1	83.8	8.1		20	30	50		32.1	64.3	3.6		
Total %	0	4.5	10.2	14.8	3.4	35.2	3.4	42	2.3	3.4	5.7	11.4	10.2	20.5	1.1	31.8	

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	0	0	0	0	**7**	**2**	**9**	0	0	0	0	0	2	0	2	11
07:30 AM	0	**1**	0	**1**	0	3	0	3	0	0	**1**	**1**	1	0	0	1	6
07:45 AM	0	0	**1**	1	**1**	4	0	5	0	**1**	0	1	**3**	**5**	**1**	**9**	**16**
08:00 AM	0	0	1	1	0	4	1	5	0	0	1	1	1	1	0	2	9
Total Volume	0	1	2	3	1	18	3	22	0	1	2	3	5	8	1	14	42
% App. Total	0	33.3	66.7		4.5	81.8	13.6		0	33.3	66.7		35.7	57.1	7.1		
PHF	.000	.250	.500	.750	.250	.643	.375	.611	.000	.250	.500	.750	.417	.400	.250	.389	.656

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City of Irwindale
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Weather: Clear

File Name : 04_IRW_Rivergrade_Live Oak AM
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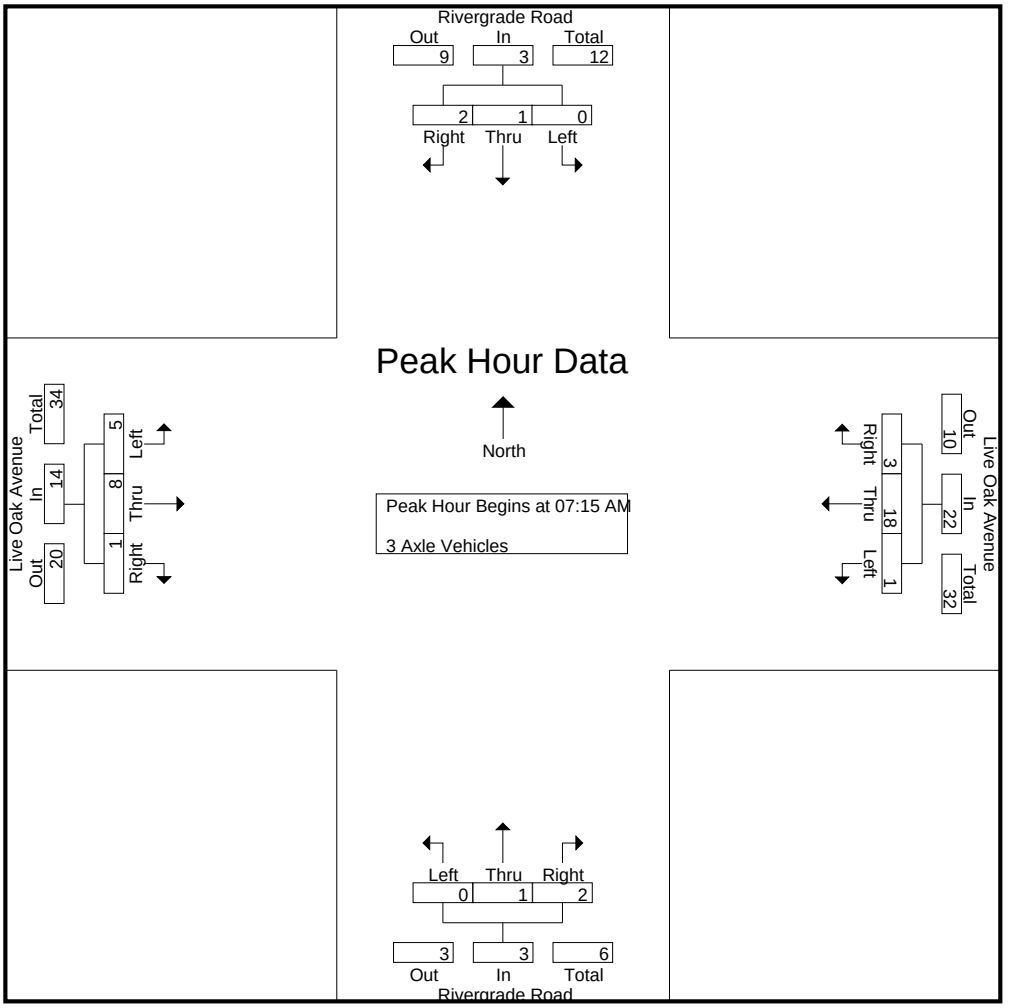

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	0	0	0	0	**7**	**2**	**9**	0	0	0	0	0	2	0	2
+15 mins.	0	**1**	0	**1**	0	3	0	3	0	0	**1**	**1**	1	0	0	1
+30 mins.	0	0	**1**	1	**1**	4	0	5	0	**1**	0	1	**3**	**5**	**1**	**9**
+45 mins.	0	0	1	1	0	4	1	5	0	0	1	1	1	1	0	2
Total Volume	0	1	2	3	1	18	3	22	0	1	2	3	5	8	1	14
% App. Total	0	33.3	66.7		4.5	81.8	13.6		0	33.3	66.7		35.7	57.1	7.1	
PHF	.000	.250	.500	.750	.250	.643	.375	.611	.000	.250	.500	.750	.417	.400	.250	.389

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City of Irwindale
N/S: Rivergrade Road
E/W: Live Oak Avenue
Weather: Clear

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Groups Printed- 4+ Axle Trucks

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	1	0	1	2	10	2	14	0	0	1	1	5	5	1	11	27
07:15 AM	0	0	1	1	3	9	0	12	0	2	0	2	5	2	0	7	22
07:30 AM	0	2	2	4	3	6	0	9	0	4	1	5	7	4	0	11	29
07:45 AM	0	2	6	8	2	5	0	7	1	5	2	8	3	9	0	12	35
Total	0	5	9	14	10	30	2	42	1	11	4	16	20	20	1	41	113
08:00 AM	0	1	3	4	2	4	0	6	2	3	0	5	5	2	1	8	23
08:15 AM	0	1	5	6	0	4	0	4	0	6	3	9	5	6	0	11	30
08:30 AM	0	0	2	2	1	5	2	8	2	1	5	8	2	5	0	7	25
08:45 AM	0	8	3	11	1	9	1	11	0	5	3	8	4	8	0	12	42
Total	0	10	13	23	4	22	3	29	4	15	11	30	16	21	1	38	120
Grand Total	0	15	22	37	14	52	5	71	5	26	15	46	36	41	2	79	233
Apprch %	0	40.5	59.5		19.7	73.2	7		10.9	56.5	32.6		45.6	51.9	2.5		
Total %	0	6.4	9.4	15.9	6	22.3	2.1	30.5	2.1	11.2	6.4	19.7	15.5	17.6	0.9	33.9	

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	0	1	1	**3**	**9**	0	**12**	0	2	0	2	5	2	0	7	22
07:30 AM	0	**2**	2	4	3	6	0	9	0	4	1	5	**7**	4	0	11	29
07:45 AM	0	2	**6**	**8**	2	5	0	7	1	**5**	**2**	**8**	3	**9**	0	**12**	**35**
08:00 AM	0	1	3	4	2	4	0	6	**2**	3	0	5	5	2	**1**	8	23
Total Volume	0	5	12	17	10	24	0	34	3	14	3	20	20	17	1	38	109
% App. Total	0	29.4	70.6		29.4	70.6	0		15	70	15		52.6	44.7	2.6		
PHF	.000	.625	.500	.531	.833	.667	.000	.708	.375	.700	.375	.625	.714	.472	.250	.792	.779

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City of Irwindale
N/S: Rivergrade Road
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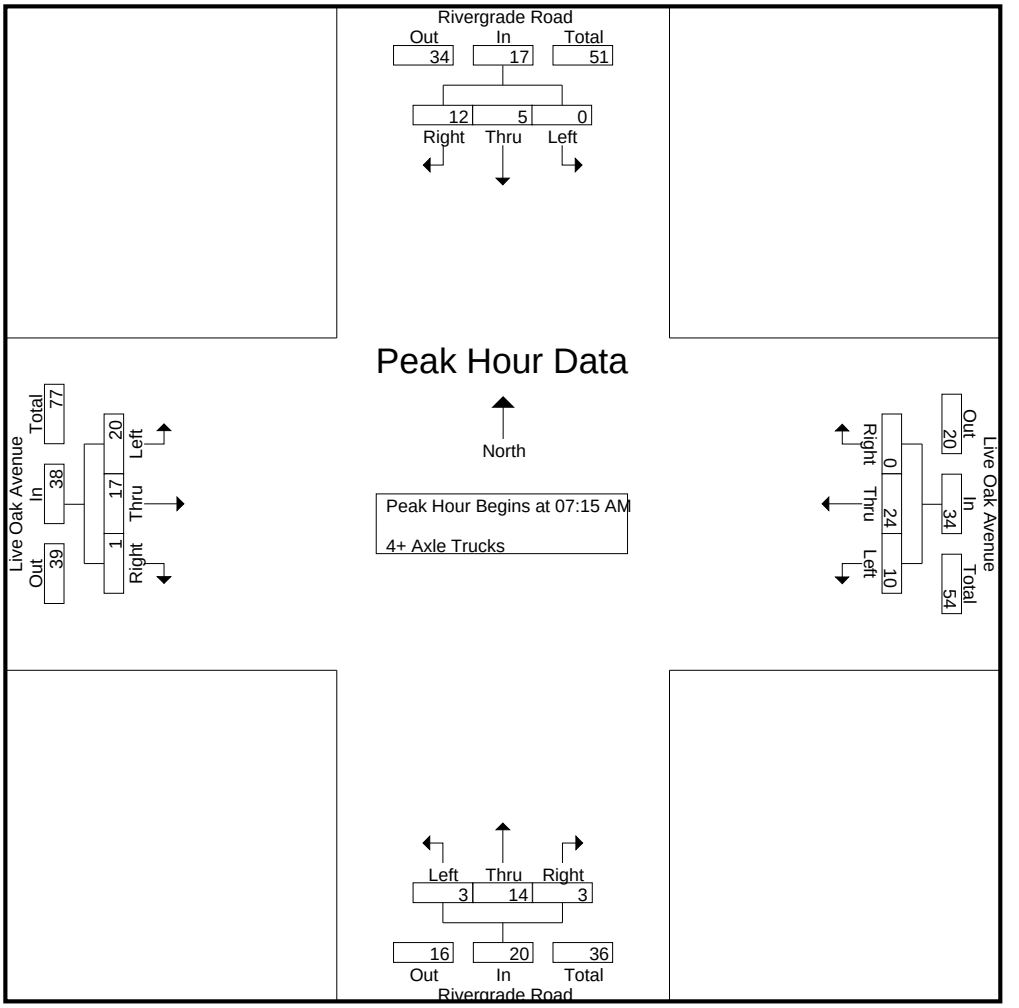

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	0	1	1	**3**	**9**	0	**12**	0	2	0	2	5	2	0	7
+15 mins.	0	**2**	2	4	3	6	0	9	0	4	1	5	**7**	4	0	11
+30 mins.	0	2	**6**	**8**	2	5	0	7	1	**5**	**2**	**8**	3	**9**	0	**12**
+45 mins.	0	1	3	4	2	4	0	6	**2**	3	0	5	5	2	**1**	8
Total Volume	0	5	12	17	10	24	0	34	3	14	3	20	20	17	1	38
% App. Total	0	29.4	70.6		29.4	70.6	0		15	70	15		52.6	44.7	2.6	
PHF	.000	.625	.500	.531	.833	.667	.000	.708	.375	.700	.375	.625	.714	.472	.250	.792

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City of Irwindale
N/S: Rivergrade Road
E/W: Live Oak Avenue
Weather: Clear

File Name : 04_IRW_Rivergrade_Live Oak PM
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	6	10	15	31	23	135	4	162	16	22	109	147	13	362	6	381	721
04:15 PM	3	10	12	25	24	162	1	187	6	23	114	143	14	376	7	397	752
04:30 PM	5	13	12	30	22	183	2	207	32	29	137	198	14	355	5	374	809
04:45 PM	3	2	7	12	20	161	2	183	17	32	114	163	8	425	2	435	793
Total	17	35	46	98	89	641	9	739	71	106	474	651	49	1518	20	1587	3075
05:00 PM	2	7	14	23	23	195	5	223	34	39	150	223	7	400	11	418	887
05:15 PM	6	3	10	19	25	180	1	206	35	46	122	203	13	409	7	429	857
05:30 PM	3	5	18	26	17	153	14	184	32	51	107	190	12	421	10	443	843
05:45 PM	3	7	12	22	22	144	2	168	18	37	97	152	12	377	7	396	738
Total	14	22	54	90	87	672	22	781	119	173	476	768	44	1607	35	1686	3325
Grand Total	31	57	100	188	176	1313	31	1520	190	279	950	1419	93	3125	55	3273	6400
Apprch %	16.5	30.3	53.2		11.6	86.4	2		13.4	19.7	66.9		2.8	95.5	1.7		
Total %	0.5	0.9	1.6	2.9	2.8	20.5	0.5	23.8	3	4.4	14.8	22.2	1.5	48.8	0.9	51.1	
Passenger Vehicles	26	52	82	160	160	1247	30	1437	189	254	902	1345	73	2992	55	3120	6062
% Passenger Vehicles	83.9	91.2	82	85.1	90.9	95	96.8	94.5	99.5	91	94.9	94.8	78.5	95.7	100	95.3	94.7
Large 2 Axle Vehicles	3	2	6	11	10	40	0	50	1	11	31	43	11	98	0	109	213
% Large 2 Axle Vehicles	9.7	3.5	6	5.9	5.7	3	0	3.3	0.5	3.9	3.3	3	11.8	3.1	0	3.3	3.3
3 Axle Vehicles	0	0	3	3	3	7	0	10	0	1	5	6	0	10	0	10	29
% 3 Axle Vehicles	0	0	3	1.6	1.7	0.5	0	0.7	0	0.4	0.5	0.4	0	0.3	0	0.3	0.5
4+ Axle Trucks	2	3	9	14	3	19	1	23	0	13	12	25	9	25	0	34	96
% 4+ Axle Trucks	6.5	5.3	9	7.4	1.7	1.4	3.2	1.5	0	4.7	1.3	1.8	9.7	0.8	0	1	1.5

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	3	2	7	12	20	161	2	183	17	32	114	163	8	**425**	2	435	793
05:00 PM	2	**7**	14	23	23	**195**	5	**223**	34	39	**150**	**223**	7	400	**11**	418	**887**
05:15 PM	**6**	3	10	19	**25**	180	1	206	**35**	46	122	203	**13**	409	7	429	857
05:30 PM	3	5	**18**	**26**	17	153	**14**	184	32	**51**	107	190	12	421	10	**443**	843
Total Volume	14	17	49	80	85	689	22	796	118	168	493	779	40	1655	30	1725	3380
% App. Total	17.5	21.2	61.2		10.7	86.6	2.8		15.1	21.6	63.3		2.3	95.9	1.7		
PHF	.583	.607	.681	.769	.850	.883	.393	.892	.843	.824	.822	.873	.769	.974	.682	.973	.953

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City of Irwindale
N/S: Rivergrade Road
E/W: Live Oak Avenue
Weather: Clear

File Name : 04_IRW_Rivergrade_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
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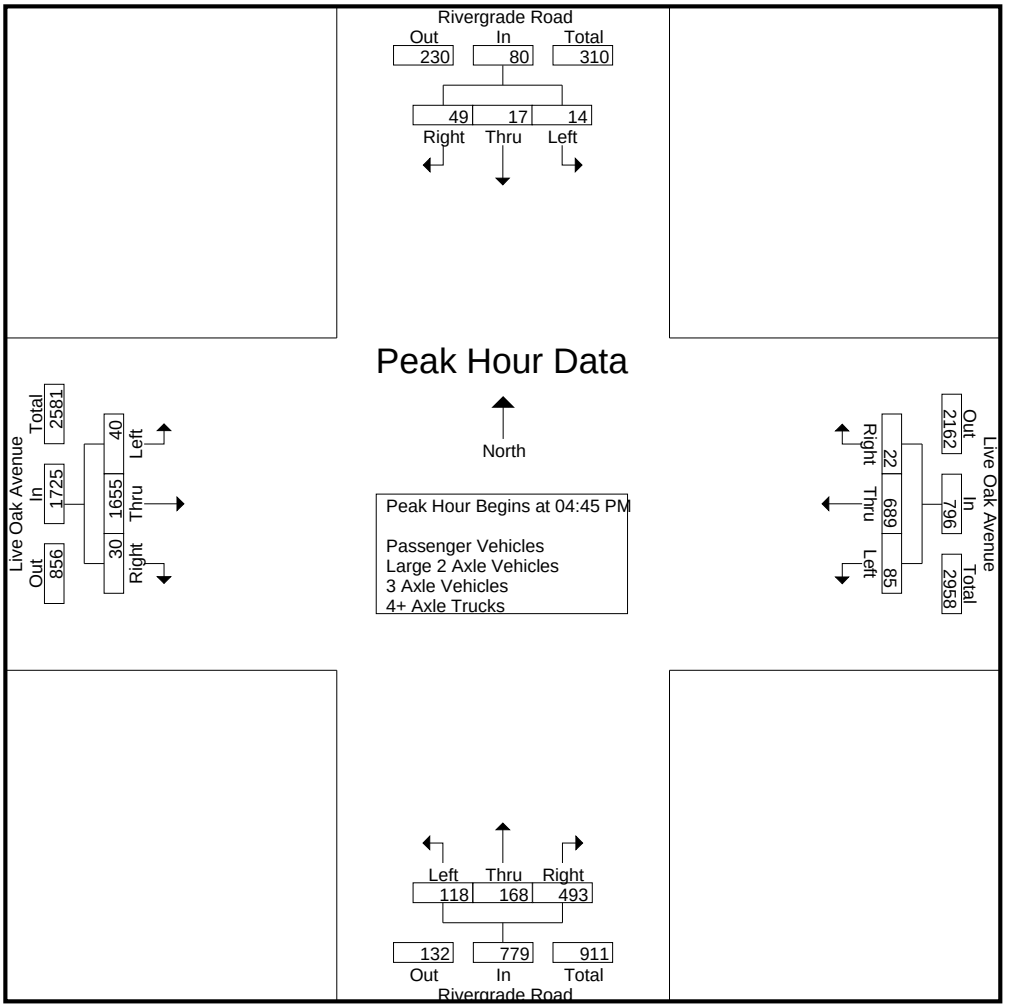

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:30 PM				04:30 PM				04:45 PM			
+0 mins.	**6**	10	**15**	**31**	22	183	2	207	32	29	137	198	8	**425**	2	435
+15 mins.	3	10	12	25	20	161	2	183	17	32	114	163	7	400	**11**	418
+30 mins.	5	**13**	12	30	23	**195**	**5**	**223**	34	39	**150**	**223**	**13**	409	7	429
+45 mins.	3	2	7	12	**25**	180	1	206	**35**	**46**	122	203	12	421	10	**443**
Total Volume	17	35	46	98	90	719	10	819	118	146	523	787	40	1655	30	1725
% App. Total	17.3	35.7	46.9		11	87.8	1.2		15	18.6	66.5		2.3	95.9	1.7	
PHF	.708	.673	.767	.790	.900	.922	.500	.918	.843	.793	.872	.882	.769	.974	.682	.973

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City of Irwindale
N/S: Rivergrade Road
E/W: Live Oak Avenue
Weather: Clear

File Name : 04_IRW_Rivergrade_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- Passenger Vehicles

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	4	10	10	24	21	124	3	148	16	18	98	132	7	343	6	356	660
04:15 PM	2	10	10	22	23	153	1	177	5	19	107	131	11	357	7	375	705
04:30 PM	5	11	9	25	22	168	2	192	32	28	133	193	10	333	5	348	758
04:45 PM	3	2	5	10	18	153	2	173	17	27	110	154	8	404	2	414	751
Total	14	33	34	81	84	598	8	690	70	92	448	610	36	1437	20	1493	2874
05:00 PM	2	7	12	21	20	188	5	213	34	37	143	214	4	388	11	403	851
05:15 PM	5	2	9	16	21	175	1	197	35	42	117	194	12	395	7	414	821
05:30 PM	2	5	16	23	15	149	14	178	32	50	105	187	11	409	10	430	818
05:45 PM	3	5	11	19	20	137	2	159	18	33	89	140	10	363	7	380	698
Total	12	19	48	79	76	649	22	747	119	162	454	735	37	1555	35	1627	3188
Grand Total	26	52	82	160	160	1247	30	1437	189	254	902	1345	73	2992	55	3120	6062
Apprch %	16.2	32.5	51.2		11.1	86.8	2.1		14.1	18.9	67.1		2.3	95.9	1.8		
Total %	0.4	0.9	1.4	2.6	2.6	20.6	0.5	23.7	3.1	4.2	14.9	22.2	1.2	49.4	0.9	51.5	

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	3	2	5	10	18	153	2	173	17	27	110	154	8	404	2	414	751
05:00 PM	2	**7**	12	21	20	**188**	5	**213**	34	37	**143**	**214**	4	388	**11**	403	**851**
05:15 PM	**5**	2	9	16	**21**	175	1	197	**35**	42	117	194	**12**	395	7	414	821
05:30 PM	2	5	**16**	**23**	15	149	**14**	178	32	**50**	105	187	11	**409**	10	**430**	818
Total Volume	12	16	42	70	74	665	22	761	118	156	475	749	35	1596	30	1661	3241
% App. Total	17.1	22.9	60		9.7	87.4	2.9		15.8	20.8	63.4		2.1	96.1	1.8		
PHF	.600	.571	.656	.761	.881	.884	.393	.893	.843	.780	.830	.875	.729	.976	.682	.966	.952

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City of Irwindale
N/S: Rivergrade Road
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Weather: Clear

File Name : 04_IRW_Rivergrade_Live Oak PM
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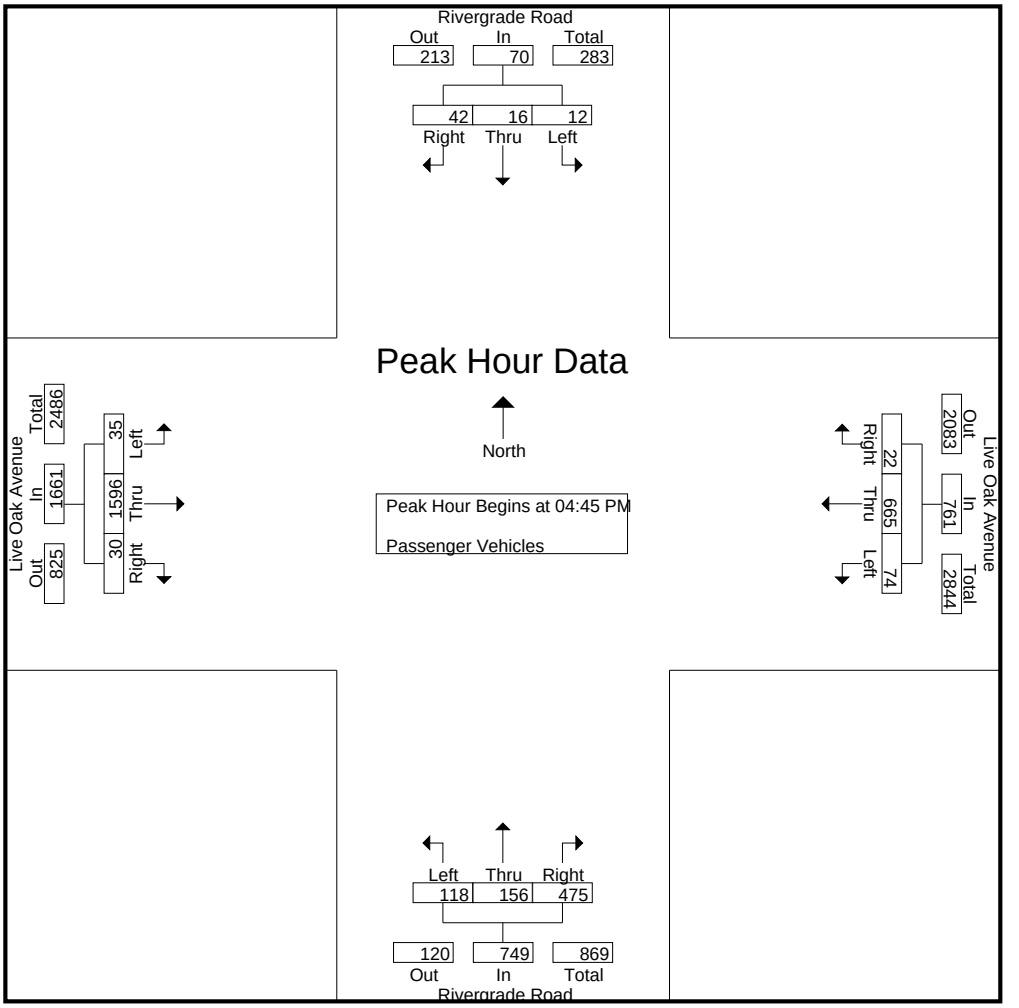

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	3	2	5	10	18	153	2	173	17	27	110	154	8	404	2	414
+15 mins.	2	**7**	12	21	20	**188**	5	**213**	34	37	**143**	**214**	4	388	**11**	403
+30 mins.	**5**	2	9	16	**21**	175	1	197	**35**	42	117	194	**12**	395	7	414
+45 mins.	2	5	**16**	**23**	15	149	**14**	178	32	**50**	105	187	11	**409**	10	**430**
Total Volume	12	16	42	70	74	665	22	761	118	156	475	749	35	1596	30	1661
% App. Total	17.1	22.9	60		9.7	87.4	2.9		15.8	20.8	63.4		2.1	96.1	1.8	
PHF	.600	.571	.656	.761	.881	.884	.393	.893	.843	.780	.830	.875	.729	.976	.682	.966

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City of Irwindale
N/S: Rivergrade Road
E/W: Live Oak Avenue
Weather: Clear

File Name : 04_IRW_Rivergrade_Live Oak PM
Site Code : 22518834
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Groups Printed- Large 2 Axle Vehicles

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	0	2	3	1	9	0	10	0	2	8	10	4	16	0	20	43
04:15 PM	0	0	0	0	1	3	0	4	1	1	4	6	1	15	0	16	26
04:30 PM	0	1	2	3	0	10	0	10	0	0	4	4	1	16	0	17	34
04:45 PM	0	0	2	2	1	4	0	5	0	3	4	7	0	16	0	16	30
Total	1	1	6	8	3	26	0	29	1	6	20	27	6	63	0	69	133
05:00 PM	0	0	0	0	2	3	0	5	0	1	3	4	3	9	0	12	21
05:15 PM	1	1	0	2	2	3	0	5	0	3	3	6	1	12	0	13	26
05:30 PM	1	0	0	1	1	3	0	4	0	0	2	2	0	8	0	8	15
05:45 PM	0	0	0	0	2	5	0	7	0	1	3	4	1	6	0	7	18
Total	2	1	0	3	7	14	0	21	0	5	11	16	5	35	0	40	80
Grand Total	3	2	6	11	10	40	0	50	1	11	31	43	11	98	0	109	213
Apprch %	27.3	18.2	54.5		20	80	0		2.3	25.6	72.1		10.1	89.9	0		
Total %	1.4	0.9	2.8	5.2	4.7	18.8	0	23.5	0.5	5.2	14.6	20.2	5.2	46	0	51.2	

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	0	**2**	**2**	1	**4**	0	**5**	0	**3**	**4**	**7**	0	**16**	0	**16**	**30**
05:00 PM	0	0	0	0	**2**	3	0	5	0	1	3	4	**3**	9	0	12	21
05:15 PM	**1**	**1**	0	2	2	3	0	5	0	3	3	6	1	12	0	13	26
05:30 PM	1	0	0	1	1	3	0	4	0	0	2	2	0	8	0	8	15
Total Volume	2	1	2	5	6	13	0	19	0	7	12	19	4	45	0	49	92
% App. Total	40	20	40		31.6	68.4	0		0	36.8	63.2		8.2	91.8	0		
PHF	.500	.250	.250	.625	.750	.813	.000	.950	.000	.583	.750	.679	.333	.703	.000	.766	.767

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City of Irwindale
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Weather: Clear

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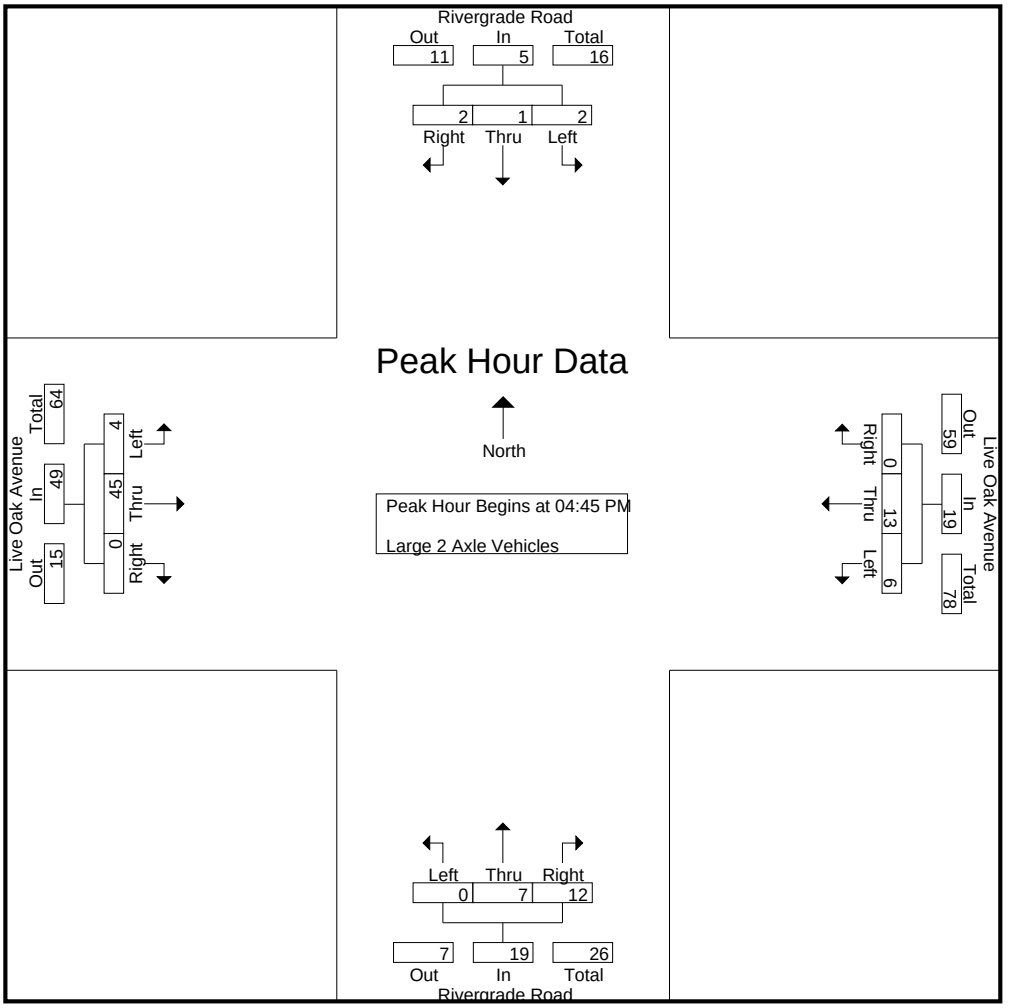

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	0	**2**	**2**	1	**4**	0	**5**	0	**3**	**4**	**7**	0	**16**	0	**16**
+15 mins.	0	0	0	0	**2**	3	0	5	0	1	3	4	**3**	9	0	12
+30 mins.	**1**	**1**	0	2	2	3	0	5	0	3	3	6	1	12	0	13
+45 mins.	1	0	0	1	1	3	0	4	0	0	2	2	0	8	0	8
Total Volume	2	1	2	5	6	13	0	19	0	7	12	19	4	45	0	49
% App. Total	40	20	40		31.6	68.4	0		0	36.8	63.2		8.2	91.8	0	
PHF	.500	.250	.250	.625	.750	.813	.000	.950	.000	.583	.750	.679	.333	.703	.000	.766

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City of Irwindale
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E/W: Live Oak Avenue
Weather: Clear

File Name : 04_IRW_Rivergrade_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- 3 Axle Vehicles

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	2	2	0	0	0	0	0	1	0	1	0	2	0	2	5
04:15 PM	0	0	0	0	0	1	0	1	0	0	1	1	0	1	0	1	3
04:30 PM	0	0	0	0	0	2	0	2	0	0	0	0	0	1	0	1	3
04:45 PM	0	0	0	0	1	1	0	2	0	0	0	0	0	2	0	2	4
Total	0	0	2	2	1	4	0	5	0	1	1	2	0	6	0	6	15
05:00 PM	0	0	0	0	0	1	0	1	0	0	3	3	0	1	0	1	5
05:15 PM	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	2
05:30 PM	0	0	1	1	1	0	0	1	0	0	0	0	0	2	0	2	4
05:45 PM	0	0	0	0	0	1	0	1	0	0	1	1	0	1	0	1	3
Total	0	0	1	1	2	3	0	5	0	0	4	4	0	4	0	4	14
Grand Total	0	0	3	3	3	7	0	10	0	1	5	6	0	10	0	10	29
Apprch %	0	0	100		30	70	0		0	16.7	83.3		0	100	0		
Total %	0	0	10.3	10.3	10.3	24.1	0	34.5	0	3.4	17.2	20.7	0	34.5	0	34.5	

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	0	0	0	**1**	**1**	0	**2**	0	0	0	0	0	**2**	0	**2**	4
05:00 PM	0	0	0	0	0	1	0	1	0	0	**3**	**3**	0	1	0	1	**5**
05:15 PM	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	2
05:30 PM	0	0	**1**	**1**	1	0	0	1	0	0	0	0	0	2	0	2	4
Total Volume	0	0	1	1	3	3	0	6	0	0	3	3	0	5	0	5	15
% App. Total	0	0	100		50	50	0		0	0	100		0	100	0		
PHF	.000	.000	.250	.250	.750	.750	.000	.750	.000	.000	.250	.250	.000	.625	.000	.625	.750

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City of Irwindale
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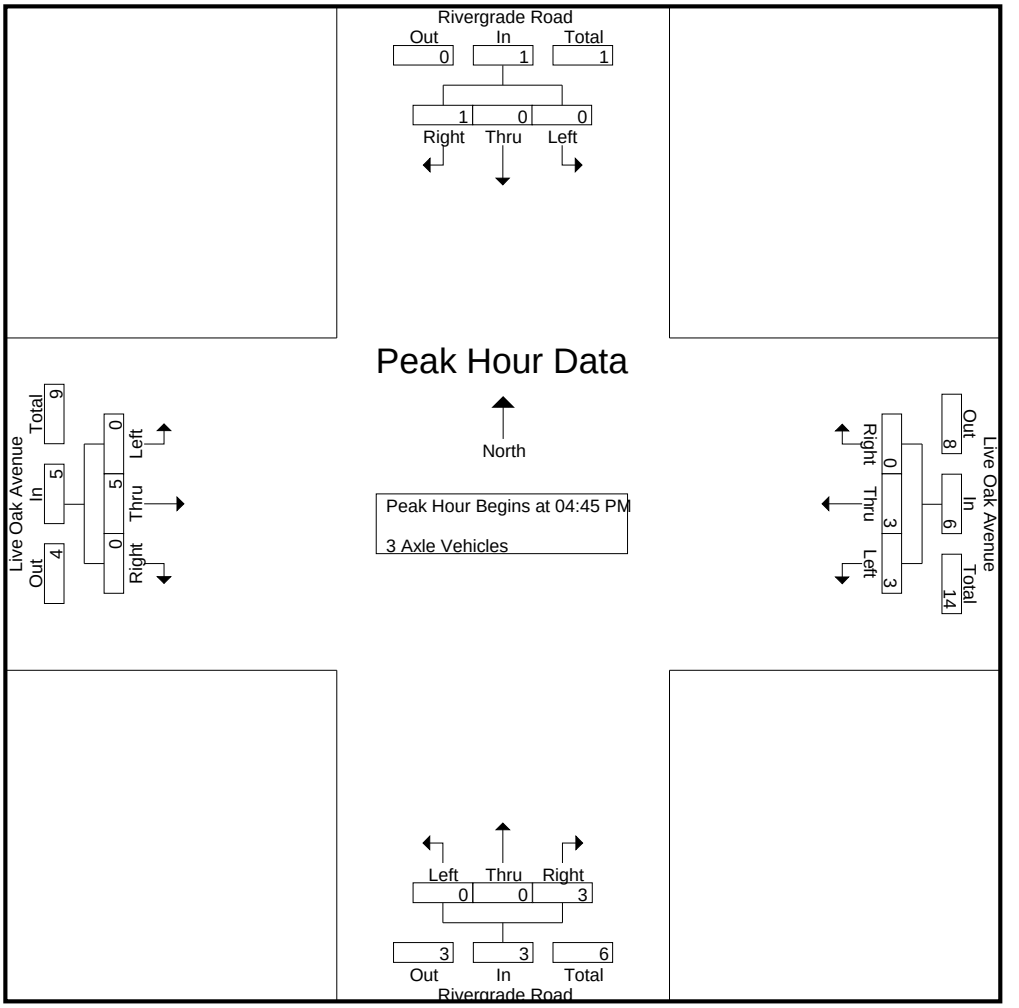

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	0	0	0	**1**	**1**	0	**2**	0	0	0	0	0	**2**	0	**2**
+15 mins.	0	0	0	0	0	1	0	1	0	0	**3**	**3**	0	1	0	1
+30 mins.	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0
+45 mins.	0	0	**1**	**1**	1	0	0	1	0	0	0	0	0	2	0	2
Total Volume	0	0	1	1	3	3	0	6	0	0	3	3	0	5	0	5
% App. Total	0	0	100		50	50	0		0	0	100		0	100	0	
PHF	.000	.000	.250	.250	.750	.750	.000	.750	.000	.000	.250	.250	.000	.625	.000	.625

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City of Irwindale
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E/W: Live Oak Avenue
Weather: Clear

File Name : 04_IRW_Rivergrade_Live Oak PM
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Groups Printed- 4+ Axle Trucks

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	0	1	2	1	2	1	4	0	1	3	4	2	1	0	3	13
04:15 PM	1	0	2	3	0	5	0	5	0	3	2	5	2	3	0	5	18
04:30 PM	0	1	1	2	0	3	0	3	0	1	0	1	3	5	0	8	14
04:45 PM	0	0	0	0	0	3	0	3	0	2	0	2	0	3	0	3	8
Total	2	1	4	7	1	13	1	15	0	7	5	12	7	12	0	19	53
05:00 PM	0	0	2	2	1	3	0	4	0	1	1	2	0	2	0	2	10
05:15 PM	0	0	1	1	1	1	0	2	0	1	2	3	0	2	0	2	8
05:30 PM	0	0	1	1	0	1	0	1	0	1	0	1	1	2	0	3	6
05:45 PM	0	2	1	3	0	1	0	1	0	3	4	7	1	7	0	8	19
Total	0	2	5	7	2	6	0	8	0	6	7	13	2	13	0	15	43
Grand Total	2	3	9	14	3	19	1	23	0	13	12	25	9	25	0	34	96
Apprch %	14.3	21.4	64.3		13	82.6	4.3		0	52	48		26.5	73.5	0		
Total %	2.1	3.1	9.4	14.6	3.1	19.8	1	24	0	13.5	12.5	26	9.4	26	0	35.4	

	Rivergrade Road Southbound				Live Oak Avenue Westbound				Rivergrade Road Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	0	0	0	0	**3**	0	3	0	**2**	0	2	0	**3**	0	**3**	8
05:00 PM	0	0	**2**	**2**	**1**	3	0	**4**	0	1	1	2	0	2	0	2	**10**
05:15 PM	0	0	1	1	1	1	0	2	0	1	**2**	**3**	0	2	0	2	8
05:30 PM	0	0	1	1	0	1	0	1	0	1	0	1	**1**	2	0	3	6
Total Volume	0	0	4	4	2	8	0	10	0	5	3	8	1	9	0	10	32
% App. Total	0	0	100		20	80	0		0	62.5	37.5		10	90	0		
PHF	.000	.000	.500	.500	.500	.667	.000	.625	.000	.625	.375	.667	.250	.750	.000	.833	.800

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City of Irwindale
N/S: Rivergrade Road
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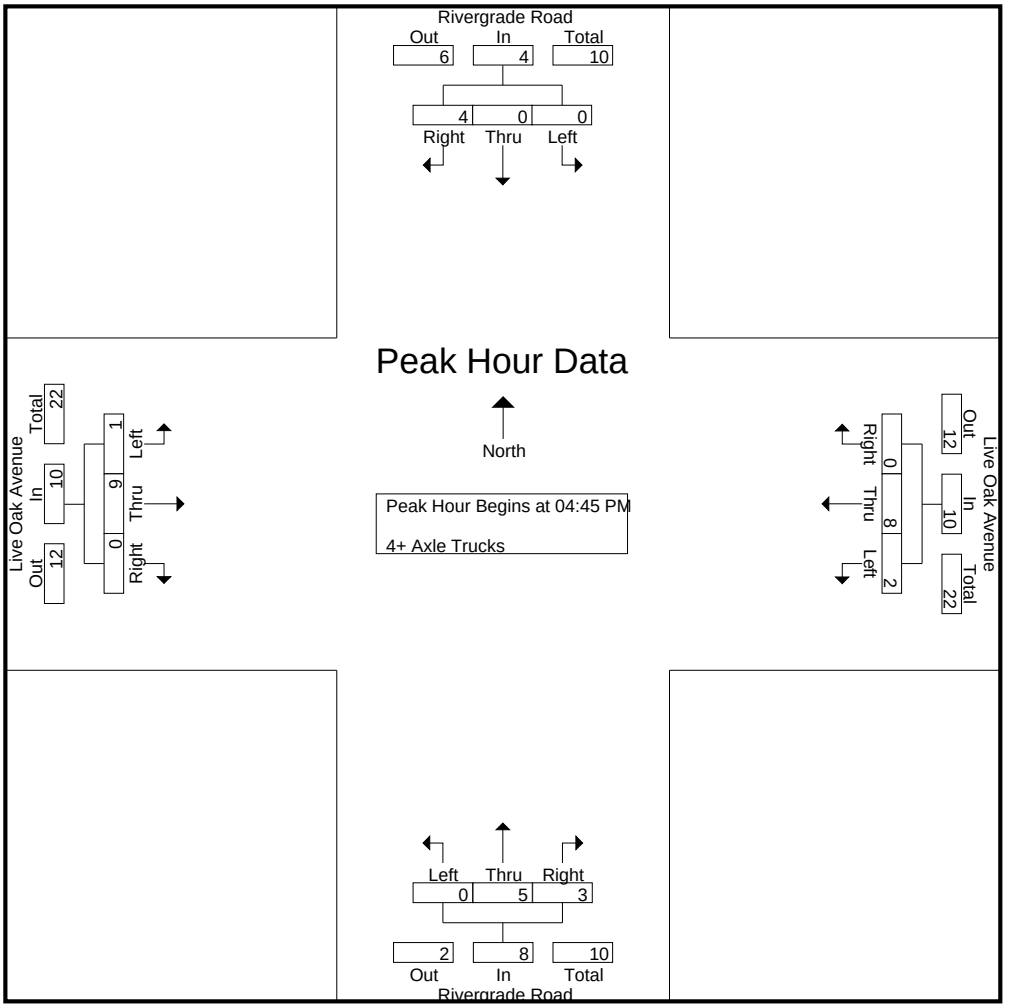

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	0	0	0	0	**3**	0	3	0	**2**	0	2	0	**3**	0	**3**
+15 mins.	0	0	**2**	**2**	**1**	3	0	**4**	0	1	1	2	0	2	0	2
+30 mins.	0	0	1	1	1	1	0	2	0	1	**2**	**3**	0	2	0	2
+45 mins.	0	0	1	1	0	1	0	1	0	1	0	1	**1**	2	0	3
Total Volume	0	0	4	4	2	8	0	10	0	5	3	8	1	9	0	10
% App. Total	0	0	100		20	80	0		0	62.5	37.5		10	90	0	
PHF	.000	.000	.500	.500	.500	.667	.000	.625	.000	.625	.375	.667	.250	.750	.000	.833

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City of Irwindale
N/S: Stewart Avenue
E/W: Live Oak Avenue
Weather: Clear

File Name : 05_IRW_Stewart_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	2	3	20	25	2	397	9	408	55	15	1	71	4	109	5	118	622
07:15 AM	6	9	13	28	12	397	5	414	80	20	7	107	0	99	6	105	654
07:30 AM	1	7	8	16	8	331	5	344	65	22	7	94	3	146	6	155	609
07:45 AM	2	10	20	32	12	282	14	308	51	25	12	88	3	223	11	237	665
Total	11	29	61	101	34	1407	33	1474	251	82	27	360	10	577	28	615	2550
08:00 AM	4	7	15	26	3	252	9	264	49	15	9	73	3	161	8	172	535
08:15 AM	3	6	14	23	7	303	4	314	39	10	8	57	6	153	12	171	565
08:30 AM	1	4	4	9	4	185	5	194	27	8	6	41	2	162	9	173	417
08:45 AM	2	2	7	11	6	225	7	238	21	15	9	45	6	160	11	177	471
Total	10	19	40	69	20	965	25	1010	136	48	32	216	17	636	40	693	1988
Grand Total	21	48	101	170	54	2372	58	2484	387	130	59	576	27	1213	68	1308	4538
Apprch %	12.4	28.2	59.4		2.2	95.5	2.3		67.2	22.6	10.2		2.1	92.7	5.2		
Total %	0.5	1.1	2.2	3.7	1.2	52.3	1.3	54.7	8.5	2.9	1.3	12.7	0.6	26.7	1.5	28.8	
Passenger Vehicles	16	44	90	150	49	2159	49	2257	376	124	54	554	24	1073	62	1159	4120
% Passenger Vehicles	76.2	91.7	89.1	88.2	90.7	91	84.5	90.9	97.2	95.4	91.5	96.2	88.9	88.5	91.2	88.6	90.8
Large 2 Axle Vehicles	5	2	10	17	1	131	8	140	7	4	4	15	1	73	5	79	251
% Large 2 Axle Vehicles	23.8	4.2	9.9	10	1.9	5.5	13.8	5.6	1.8	3.1	6.8	2.6	3.7	6	7.4	6	5.5
3 Axle Vehicles	0	1	0	1	4	27	1	32	3	2	1	6	1	17	1	19	58
% 3 Axle Vehicles	0	2.1	0	0.6	7.4	1.1	1.7	1.3	0.8	1.5	1.7	1	3.7	1.4	1.5	1.5	1.3
4+ Axle Trucks	0	1	1	2	0	55	0	55	1	0	0	1	1	50	0	51	109
% 4+ Axle Trucks	0	2.1	1	1.2	0	2.3	0	2.2	0.3	0	0	0.2	3.7	4.1	0	3.9	2.4

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	2	3	**20**	25	2	**397**	9	408	55	15	1	71	**4**	109	5	118	622
07:15 AM	**6**	9	13	28	**12**	397	5	**414**	**80**	20	7	**107**	0	99	6	105	654
07:30 AM	1	7	8	16	8	331	5	344	65	22	7	94	3	146	6	155	609
07:45 AM	2	**10**	20	**32**	12	282	**14**	308	51	**25**	**12**	88	3	**223**	**11**	**237**	**665**
Total Volume	11	29	61	101	34	1407	33	1474	251	82	27	360	10	577	28	615	2550
% App. Total	10.9	28.7	60.4		2.3	95.5	2.2		69.7	22.8	7.5		1.6	93.8	4.6		
PHF	.458	.725	.763	.789	.708	.886	.589	.890	.784	.820	.563	.841	.625	.647	.636	.649	.959

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City of Irwindale
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File Name : 05_IRW_Stewart_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
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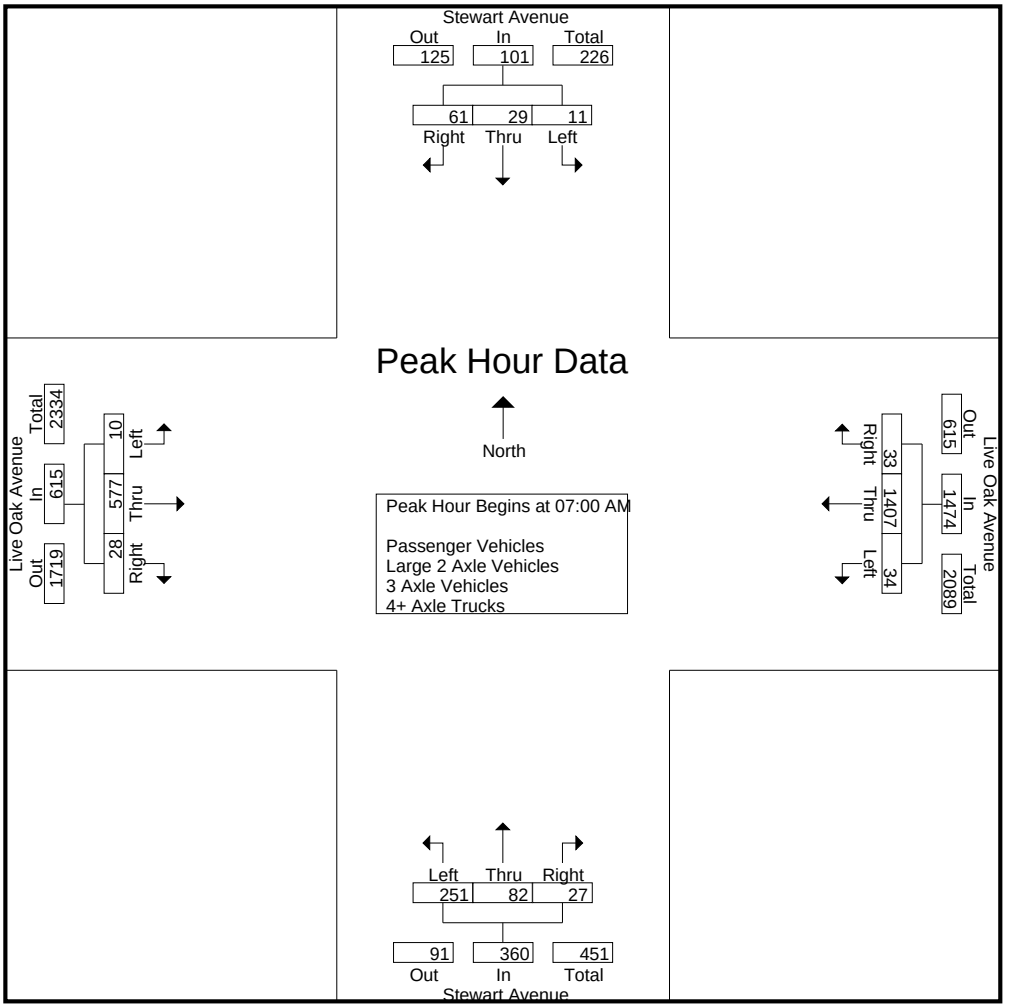

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:00 AM				07:15 AM				07:45 AM			
+0 mins.	**6**	9	13	28	2	**397**	9	408	**80**	20	7	**107**	3	**223**	11	**237**
+15 mins.	1	7	8	16	**12**	397	5	**414**	65	22	7	94	3	161	8	172
+30 mins.	2	**10**	**20**	**32**	8	331	5	344	51	**25**	**12**	88	**6**	153	**12**	171
+45 mins.	4	7	15	26	12	282	**14**	308	49	15	9	73	2	162	9	173
Total Volume	13	33	56	102	34	1407	33	1474	245	82	35	362	14	699	40	753
% App. Total	12.7	32.4	54.9		2.3	95.5	2.2		67.7	22.7	9.7		1.9	92.8	5.3	
PHF	.542	.825	.700	.797	.708	.886	.589	.890	.766	.820	.729	.846	.583	.784	.833	.794

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City of Irwindale
N/S: Stewart Avenue
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Weather: Clear

File Name : 05_IRW_Stewart_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Passenger Vehicles

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	2	3	15	20	2	366	6	374	52	15	1	68	3	97	5	105	567
07:15 AM	5	7	9	21	10	359	5	374	79	20	7	106	0	88	4	92	593
07:30 AM	1	6	8	15	7	305	4	316	64	20	7	91	2	129	5	136	558
07:45 AM	1	10	19	30	12	257	14	283	50	24	10	84	3	197	11	211	608
Total	9	26	51	86	31	1287	29	1347	245	79	25	349	8	511	25	544	2326
08:00 AM	3	7	14	24	1	227	8	236	47	14	9	70	3	144	8	155	485
08:15 AM	2	6	14	22	7	282	4	293	38	9	7	54	6	134	11	151	520
08:30 AM	1	4	4	9	4	162	2	168	27	8	5	40	2	143	8	153	370
08:45 AM	1	1	7	9	6	201	6	213	19	14	8	41	5	141	10	156	419
Total	7	18	39	64	18	872	20	910	131	45	29	205	16	562	37	615	1794
Grand Total	16	44	90	150	49	2159	49	2257	376	124	54	554	24	1073	62	1159	4120
Apprch %	10.7	29.3	60		2.2	95.7	2.2		67.9	22.4	9.7		2.1	92.6	5.3		
Total %	0.4	1.1	2.2	3.6	1.2	52.4	1.2	54.8	9.1	3	1.3	13.4	0.6	26	1.5	28.1	

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	2	3	15	20	2	**366**	6	**374**	52	15	1	68	**3**	97	5	105	567
07:15 AM	**5**	7	9	21	10	359	5	374	**79**	20	7	**106**	0	88	4	92	593
07:30 AM	1	6	8	15	7	305	4	316	64	20	7	91	2	129	5	136	558
07:45 AM	1	**10**	**19**	**30**	**12**	257	**14**	283	50	**24**	**10**	84	3	**197**	**11**	**211**	**608**
Total Volume	9	26	51	86	31	1287	29	1347	245	79	25	349	8	511	25	544	2326
% App. Total	10.5	30.2	59.3		2.3	95.5	2.2		70.2	22.6	7.2		1.5	93.9	4.6		
PHF	.450	.650	.671	.717	.646	.879	.518	.900	.775	.823	.625	.823	.667	.648	.568	.645	.956

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Site Code : 22518834
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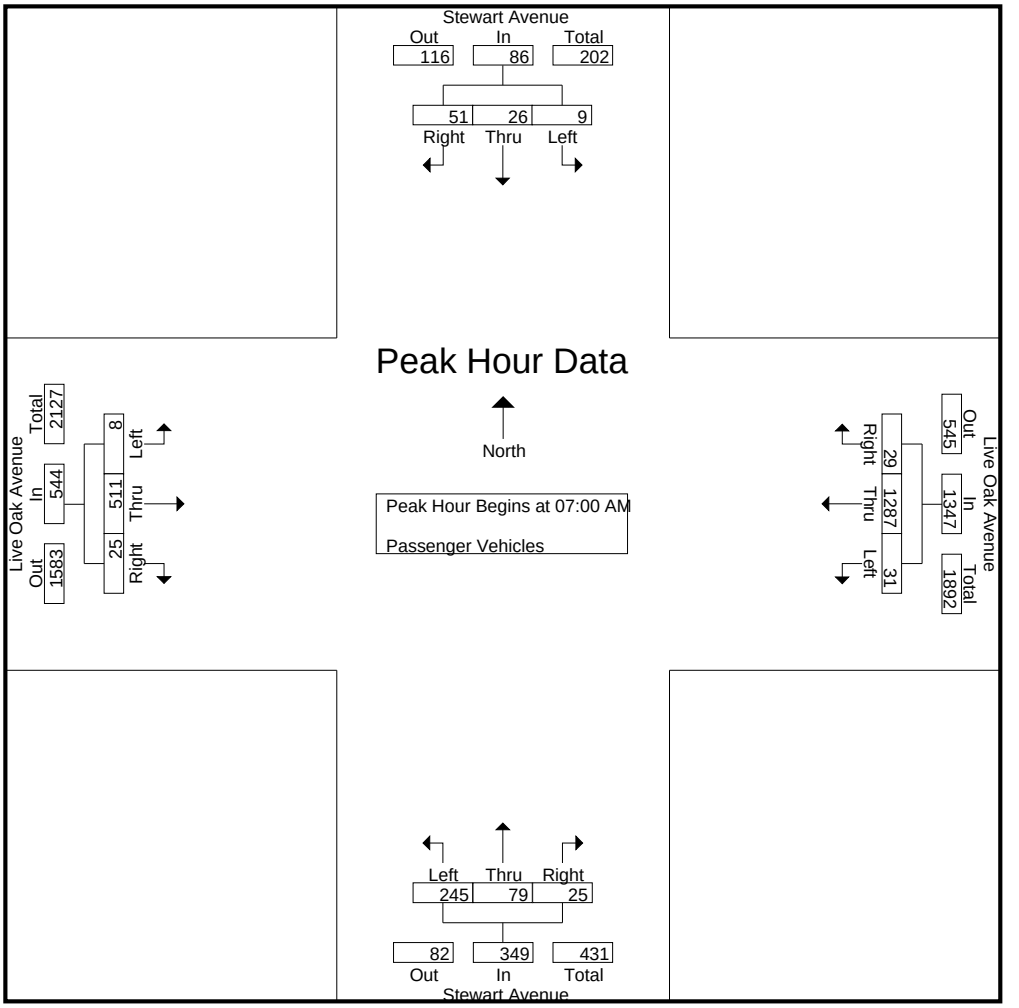

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	2	3	15	20	2	**366**	6	**374**	52	15	1	68	**3**	97	5	105
+15 mins.	**5**	7	9	21	10	359	5	374	**79**	20	7	**106**	0	88	4	92
+30 mins.	1	6	8	15	7	305	4	316	64	20	7	91	2	129	5	136
+45 mins.	1	**10**	**19**	**30**	**12**	257	**14**	283	50	**24**	**10**	84	3	**197**	**11**	**211**
Total Volume	9	26	51	86	31	1287	29	1347	245	79	25	349	8	511	25	544
% App. Total	10.5	30.2	59.3		2.3	95.5	2.2		70.2	22.6	7.2		1.5	93.9	4.6	
PHF	.450	.650	.671	.717	.646	.879	.518	.900	.775	.823	.625	.823	.667	.648	.568	.645

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City of Irwindale
N/S: Stewart Avenue
E/W: Live Oak Avenue
Weather: Clear

File Name : 05_IRW_Stewart_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- Large 2 Axle Vehicles

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	5	5	0	23	3	26	2	0	0	2	0	7	0	7	40
07:15 AM	1	1	3	5	0	21	0	21	1	0	0	1	0	7	2	9	36
07:30 AM	0	0	0	0	0	15	1	16	1	1	0	2	0	12	1	13	31
07:45 AM	1	0	1	2	0	18	0	18	0	1	2	3	0	12	0	12	35
Total	2	1	9	12	0	77	4	81	4	2	2	8	0	38	3	41	142
08:00 AM	1	0	1	2	1	15	1	17	2	1	0	3	0	13	0	13	35
08:15 AM	1	0	0	1	0	12	0	12	0	0	1	1	0	8	0	8	22
08:30 AM	0	0	0	0	0	14	2	16	0	0	0	0	0	8	1	9	25
08:45 AM	1	1	0	2	0	13	1	14	1	1	1	3	1	6	1	8	27
Total	3	1	1	5	1	54	4	59	3	2	2	7	1	35	2	38	109
Grand Total	5	2	10	17	1	131	8	140	7	4	4	15	1	73	5	79	251
Apprch %	29.4	11.8	58.8		0.7	93.6	5.7		46.7	26.7	26.7		1.3	92.4	6.3		
Total %	2	0.8	4	6.8	0.4	52.2	3.2	55.8	2.8	1.6	1.6	6	0.4	29.1	2	31.5	

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	0	0	**5**	**5**	0	**23**	**3**	**26**	**2**	0	0	2	0	7	0	7	**40**
07:15 AM	**1**	**1**	3	5	0	21	0	21	1	0	0	1	0	7	**2**	9	36
07:30 AM	0	0	0	0	0	15	1	16	1	**1**	0	2	0	**12**	1	**13**	31
07:45 AM	1	0	1	2	0	18	0	18	0	1	**2**	**3**	0	12	0	12	35
Total Volume	2	1	9	12	0	77	4	81	4	2	2	8	0	38	3	41	142
% App. Total	16.7	8.3	75		0	95.1	4.9		50	25	25		0	92.7	7.3		
PHF	.500	.250	.450	.600	.000	.837	.333	.779	.500	.500	.250	.667	.000	.792	.375	.788	.888

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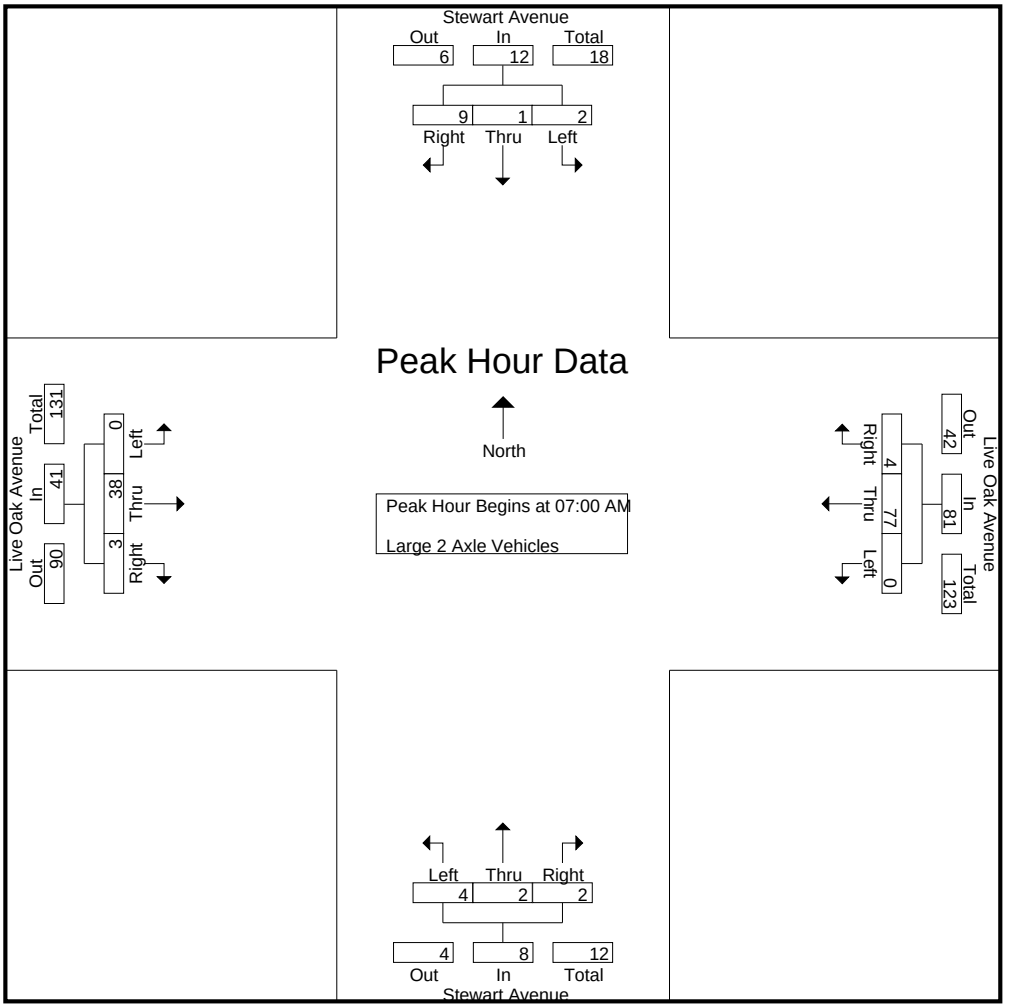

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	**5**	**5**	0	**23**	**3**	**26**	**2**	0	0	2	0	7	0	7
+15 mins.	**1**	**1**	3	5	0	21	0	21	1	0	0	1	0	7	**2**	9
+30 mins.	0	0	0	0	0	15	1	16	1	**1**	0	2	0	**12**	1	**13**
+45 mins.	1	0	1	2	0	18	0	18	0	1	**2**	**3**	0	12	0	12
Total Volume	2	1	9	12	0	77	4	81	4	2	2	8	0	38	3	41
% App. Total	16.7	8.3	75		0	95.1	4.9		50	25	25		0	92.7	7.3	
PHF	.500	.250	.450	.600	.000	.837	.333	.779	.500	.500	.250	.667	.000	.792	.375	.788

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City of Irwindale
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Groups Printed- 3 Axle Vehicles

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	2	0	2	0	0	0	0	1	0	0	1	3
07:15 AM	0	1	0	1	2	6	0	8	0	0	0	0	0	2	0	2	11
07:30 AM	0	0	0	0	1	3	0	4	0	1	0	1	0	2	0	2	7
07:45 AM	0	0	0	0	0	3	0	3	1	0	0	1	0	4	0	4	8
Total	0	1	0	1	3	14	0	17	1	1	0	2	1	8	0	9	29
08:00 AM	0	0	0	0	1	4	0	5	0	0	0	0	0	2	0	2	7
08:15 AM	0	0	0	0	0	4	0	4	1	1	0	2	0	2	1	3	9
08:30 AM	0	0	0	0	0	3	1	4	0	0	1	1	0	2	0	2	7
08:45 AM	0	0	0	0	0	2	0	2	1	0	0	1	0	3	0	3	6
Total	0	0	0	0	1	13	1	15	2	1	1	4	0	9	1	10	29
Grand Total	0	1	0	1	4	27	1	32	3	2	1	6	1	17	1	19	58
Apprch %	0	100	0		12.5	84.4	3.1		50	33.3	16.7		5.3	89.5	5.3		
Total %	0	1.7	0	1.7	6.9	46.6	1.7	55.2	5.2	3.4	1.7	10.3	1.7	29.3	1.7	32.8	

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	0	0	0	0	0	2	0	2	0	0	0	0	**1**	0	0	1	3
07:15 AM	0	**1**	0	**1**	**2**	**6**	0	**8**	0	0	0	0	0	2	0	2	**11**
07:30 AM	0	0	0	0	1	3	0	4	0	**1**	0	**1**	0	2	0	2	7
07:45 AM	0	0	0	0	0	3	0	3	**1**	0	0	1	0	**4**	0	**4**	8
Total Volume	0	1	0	1	3	14	0	17	1	1	0	2	1	8	0	9	29
% App. Total	0	100	0		17.6	82.4	0		50	50	0		11.1	88.9	0		
PHF	.000	.250	.000	.250	.375	.583	.000	.531	.250	.250	.000	.500	.250	.500	.000	.563	.659

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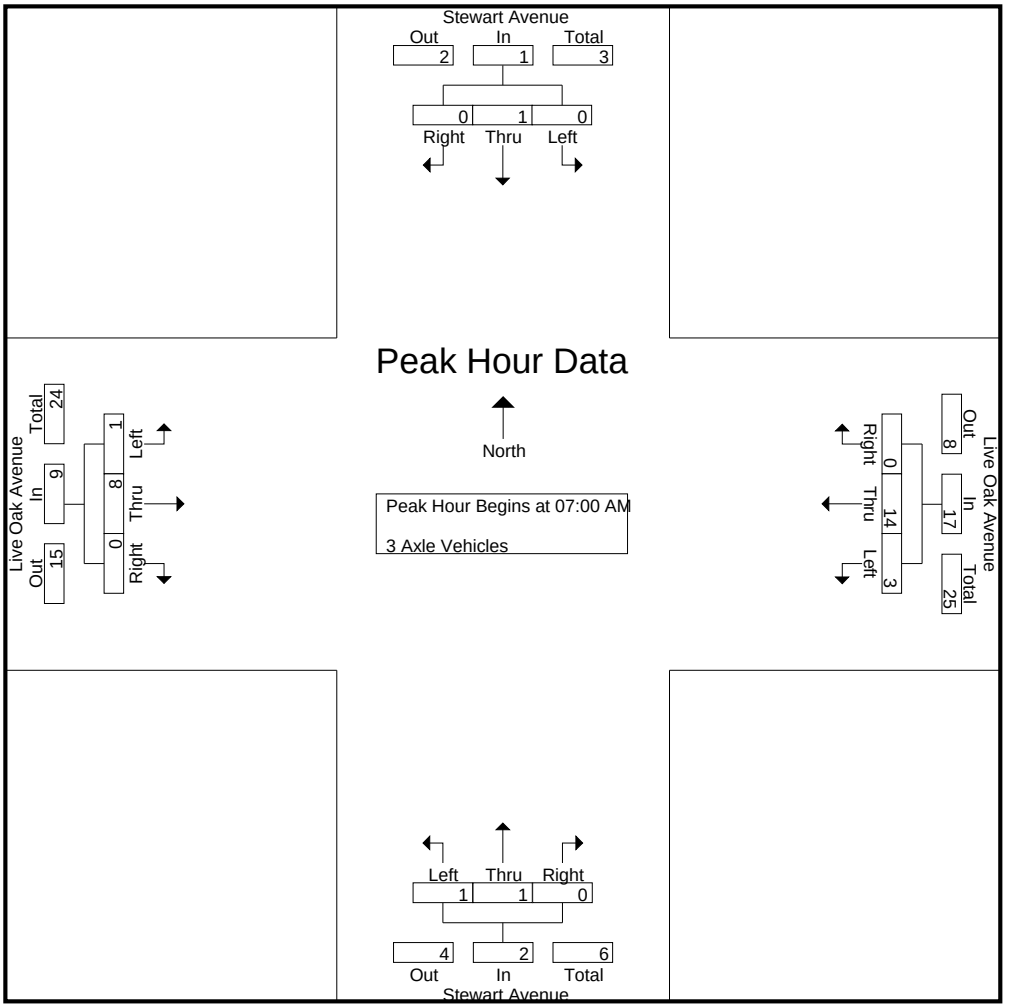

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	0	0	0	2	0	2	0	0	0	0	**1**	0	0	1
+15 mins.	0	**1**	0	**1**	**2**	**6**	0	**8**	0	0	0	0	0	2	0	2
+30 mins.	0	0	0	0	1	3	0	4	0	**1**	0	**1**	0	2	0	2
+45 mins.	0	0	0	0	0	3	0	3	**1**	0	0	1	0	**4**	0	**4**
Total Volume	0	1	0	1	3	14	0	17	1	1	0	2	1	8	0	9
% App. Total	0	100	0		17.6	82.4	0		50	50	0		11.1	88.9	0	
PHF	.000	.250	.000	.250	.375	.583	.000	.531	.250	.250	.000	.500	.250	.500	.000	.563

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Groups Printed- 4+ Axle Trucks

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	6	0	6	1	0	0	1	0	5	0	5	12
07:15 AM	0	0	1	1	0	11	0	11	0	0	0	0	0	2	0	2	14
07:30 AM	0	1	0	1	0	8	0	8	0	0	0	0	1	3	0	4	13
07:45 AM	0	0	0	0	0	4	0	4	0	0	0	0	0	10	0	10	14
Total	0	1	1	2	0	29	0	29	1	0	0	1	1	20	0	21	53
08:00 AM	0	0	0	0	0	6	0	6	0	0	0	0	0	2	0	2	8
08:15 AM	0	0	0	0	0	5	0	5	0	0	0	0	0	9	0	9	14
08:30 AM	0	0	0	0	0	6	0	6	0	0	0	0	0	9	0	9	15
08:45 AM	0	0	0	0	0	9	0	9	0	0	0	0	0	10	0	10	19
Total	0	0	0	0	0	26	0	26	0	0	0	0	0	30	0	30	56
Grand Total	0	1	1	2	0	55	0	55	1	0	0	1	1	50	0	51	109
Apprch %	0	50	50		0	100	0		100	0	0		2	98	0		
Total %	0	0.9	0.9	1.8	0	50.5	0	50.5	0.9	0	0	0.9	0.9	45.9	0	46.8	

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	0	0	0	0	0	6	0	6	**1**	0	0	**1**	0	5	0	5	12
07:15 AM	0	0	**1**	**1**	0	**11**	0	**11**	0	0	0	0	0	2	0	2	**14**
07:30 AM	0	**1**	0	1	0	8	0	8	0	0	0	0	**1**	3	0	4	13
07:45 AM	0	0	0	0	0	4	0	4	0	0	0	0	0	**10**	0	**10**	14
Total Volume	0	1	1	2	0	29	0	29	1	0	0	1	1	20	0	21	53
% App. Total	0	50	50		0	100	0		100	0	0		4.8	95.2	0		
PHF	.000	.250	.250	.500	.000	.659	.000	.659	.250	.000	.000	.250	.250	.500	.000	.525	.946

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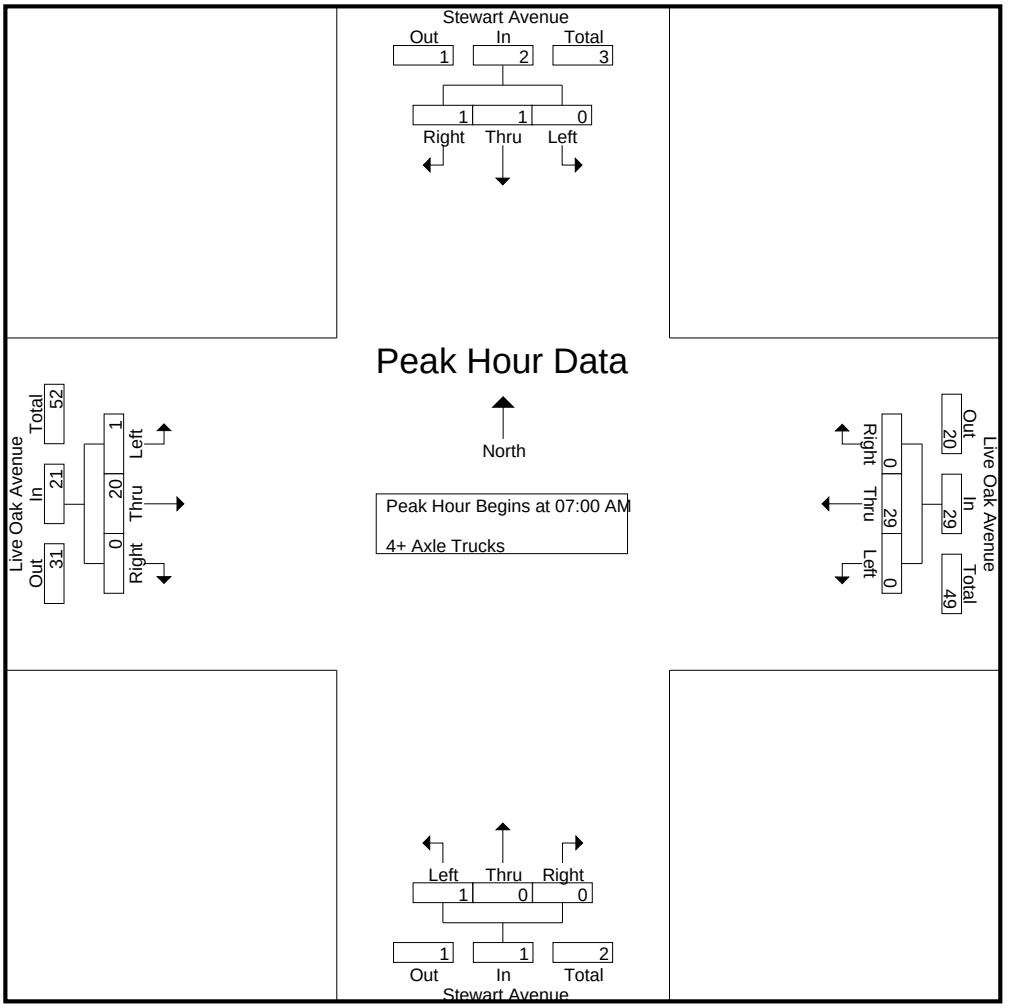
City of Irwindale
N/S: Stewart Avenue
E/W: Live Oak Avenue
Weather: Clear

File Name : 05_IRW_Stewart_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 2



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	0	0	0	6	0	6	**1**	0	0	**1**	0	5	0	5
+15 mins.	0	0	**1**	**1**	0	**11**	0	**11**	0	0	0	0	0	2	0	2
+30 mins.	0	**1**	0	1	0	8	0	8	0	0	0	0	**1**	3	0	4
+45 mins.	0	0	0	0	0	4	0	4	0	0	0	0	0	**10**	0	**10**
Total Volume	0	1	1	2	0	29	0	29	1	0	0	1	1	20	0	21
% App. Total	0	50	50		0	100	0		100	0	0		4.8	95.2	0	
PHF	.000	.250	.250	.500	.000	.659	.000	.659	.250	.000	.000	.250	.250	.500	.000	.525

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City of Irwindale
N/S: Stewart Avenue
E/W: Live Oak Avenue
Weather: Clear

File Name : 05_IRW_Stewart_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	5	28	4	37	11	135	2	148	12	5	5	22	8	455	56	519	726
04:15 PM	17	32	1	50	7	183	1	191	4	4	5	13	7	464	45	516	770
04:30 PM	13	41	3	57	6	156	3	165	11	6	9	26	8	465	66	539	787
04:45 PM	23	32	5	60	8	167	2	177	12	9	5	26	9	483	66	558	821
Total	58	133	13	204	32	641	8	681	39	24	24	87	32	1867	233	2132	3104
05:00 PM	33	48	2	83	7	190	3	200	11	8	2	21	6	514	81	601	905
05:15 PM	41	44	3	88	12	159	6	177	19	7	6	32	7	481	88	576	873
05:30 PM	34	46	3	83	8	129	4	141	11	5	3	19	8	513	73	594	837
05:45 PM	31	24	4	59	10	148	5	163	10	5	3	18	8	435	62	505	745
Total	139	162	12	313	37	626	18	681	51	25	14	90	29	1943	304	2276	3360
Grand Total	197	295	25	517	69	1267	26	1362	90	49	38	177	61	3810	537	4408	6464
Apprch %	38.1	57.1	4.8		5.1	93	1.9		50.8	27.7	21.5		1.4	86.4	12.2		
Total %	3	4.6	0.4	8	1.1	19.6	0.4	21.1	1.4	0.8	0.6	2.7	0.9	58.9	8.3	68.2	
Passenger Vehicles	185	278	17	480	62	1200	23	1285	87	49	34	170	58	3625	523	4206	6141
% Passenger Vehicles	93.9	94.2	68	92.8	89.9	94.7	88.5	94.3	96.7	100	89.5	96	95.1	95.1	97.4	95.4	95
Large 2 Axle Vehicles	10	3	5	18	1	44	2	47	3	0	3	6	2	138	10	150	221
% Large 2 Axle Vehicles	5.1	1	20	3.5	1.4	3.5	7.7	3.5	3.3	0	7.9	3.4	3.3	3.6	1.9	3.4	3.4
3 Axle Vehicles	0	14	0	14	6	7	1	14	0	0	1	1	0	11	4	15	44
% 3 Axle Vehicles	0	4.7	0	2.7	8.7	0.6	3.8	1	0	0	2.6	0.6	0	0.3	0.7	0.3	0.7
4+ Axle Trucks	2	0	3	5	0	16	0	16	0	0	0	0	1	36	0	37	58
% 4+ Axle Trucks	1	0	12	1	0	1.3	0	1.2	0	0	0	0	1.6	0.9	0	0.8	0.9

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	23	32	**5**	60	8	167	2	177	12	**9**	5	26	**9**	483	66	558	821
05:00 PM	33	**48**	2	83	7	**190**	3	**200**	11	8	2	21	6	**514**	81	**601**	**905**
05:15 PM	**41**	44	3	**88**	**12**	159	**6**	177	**19**	7	**6**	**32**	7	481	**88**	576	873
05:30 PM	34	46	3	83	8	129	4	141	11	5	3	19	8	513	73	594	837
Total Volume	131	170	13	314	35	645	15	695	53	29	16	98	30	1991	308	2329	3436
% App. Total	41.7	54.1	4.1		5	92.8	2.2		54.1	29.6	16.3		1.3	85.5	13.2		
PHF	.799	.885	.650	.892	.729	.849	.625	.869	.697	.806	.667	.766	.833	.968	.875	.969	.949

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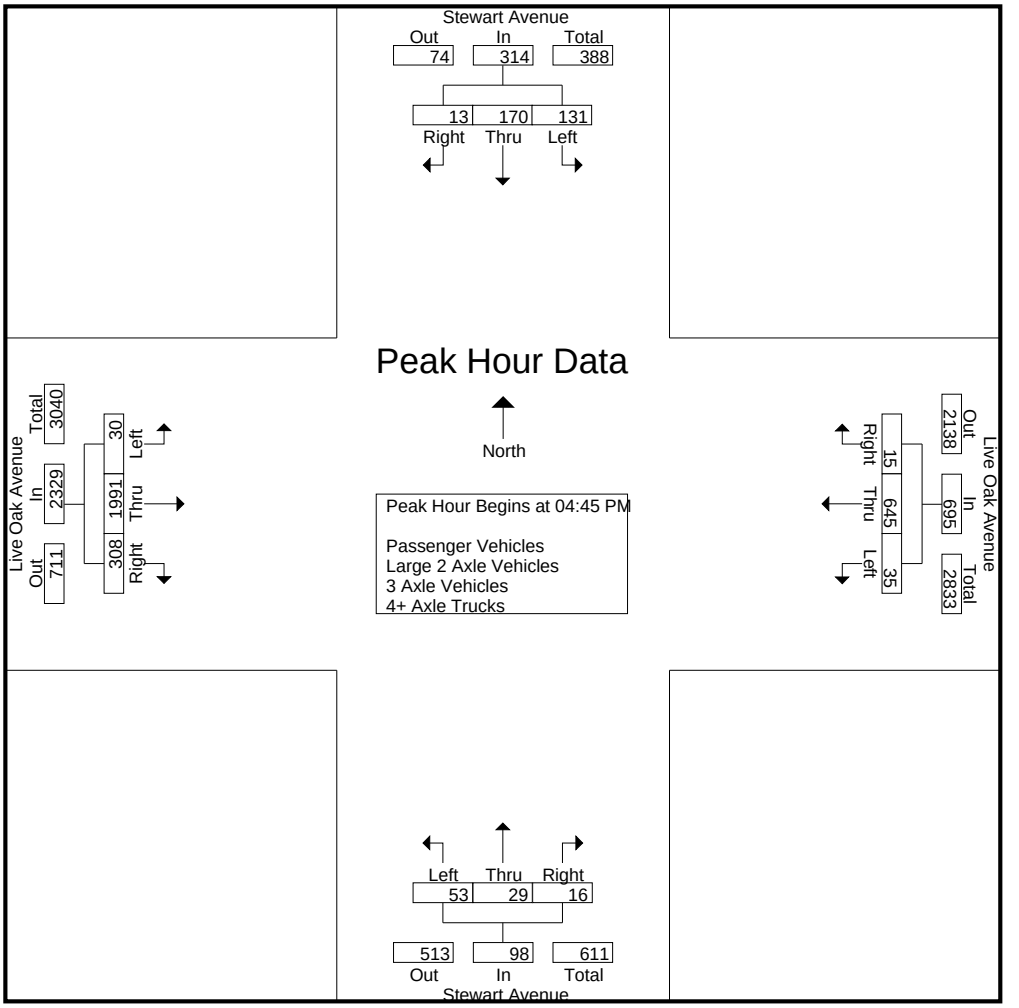
City of Irwindale
N/S: Stewart Avenue
E/W: Live Oak Avenue
Weather: Clear

File Name : 05_IRW_Stewart_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:15 PM				04:30 PM				04:45 PM			
+0 mins.	23	32	**5**	60	7	183	1	191	11	6	**9**	26	**9**	483	66	558
+15 mins.	33	**48**	2	83	6	156	**3**	165	12	**9**	5	26	6	**514**	81	**601**
+30 mins.	**41**	44	3	**88**	**8**	167	2	177	11	8	2	21	7	481	**88**	576
+45 mins.	34	46	3	83	7	**190**	3	**200**	**19**	7	6	**32**	8	513	73	594
Total Volume	131	170	13	314	28	696	9	733	53	30	22	105	30	1991	308	2329
% App. Total	41.7	54.1	4.1		3.8	95	1.2		50.5	28.6	21		1.3	85.5	13.2	
PHF	.799	.885	.650	.892	.875	.916	.750	.916	.697	.833	.611	.820	.833	.968	.875	.969

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City of Irwindale
N/S: Stewart Avenue
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Weather: Clear

File Name : 05_IRW_Stewart_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- Passenger Vehicles

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	4	27	2	33	10	122	1	133	11	5	4	20	7	423	54	484	670
04:15 PM	13	30	1	44	4	174	1	179	3	4	5	12	7	434	44	485	720
04:30 PM	12	38	0	50	4	146	2	152	10	6	8	24	8	441	64	513	739
04:45 PM	22	27	4	53	8	156	2	166	12	9	4	25	8	457	64	529	773
Total	51	122	7	180	26	598	6	630	36	24	21	81	30	1755	226	2011	2902
05:00 PM	32	45	2	79	7	183	3	193	11	8	1	20	6	496	79	581	873
05:15 PM	38	42	2	82	12	153	6	171	19	7	6	32	7	464	87	558	843
05:30 PM	34	45	3	82	7	126	3	136	11	5	3	19	8	496	72	576	813
05:45 PM	30	24	3	57	10	140	5	155	10	5	3	18	7	414	59	480	710
Total	134	156	10	300	36	602	17	655	51	25	13	89	28	1870	297	2195	3239
Grand Total	185	278	17	480	62	1200	23	1285	87	49	34	170	58	3625	523	4206	6141
Apprch %	38.5	57.9	3.5		4.8	93.4	1.8		51.2	28.8	20		1.4	86.2	12.4		
Total %	3	4.5	0.3	7.8	1	19.5	0.4	20.9	1.4	0.8	0.6	2.8	0.9	59	8.5	68.5	

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	22	27	**4**	53	8	156	2	166	12	**9**	4	25	**8**	457	64	529	773
05:00 PM	32	**45**	2	79	7	**183**	3	**193**	11	8	1	20	6	**496**	79	**581**	**873**
05:15 PM	**38**	42	2	**82**	**12**	153	**6**	171	**19**	7	**6**	**32**	7	464	**87**	558	843
05:30 PM	34	45	3	82	7	126	3	136	11	5	3	19	8	496	72	576	813
Total Volume	126	159	11	296	34	618	14	666	53	29	14	96	29	1913	302	2244	3302
% App. Total	42.6	53.7	3.7		5.1	92.8	2.1		55.2	30.2	14.6		1.3	85.2	13.5		
PHF	.829	.883	.688	.902	.708	.844	.583	.863	.697	.806	.583	.750	.906	.964	.868	.966	.946

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City of Irwindale
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File Name : 05_IRW_Stewart_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
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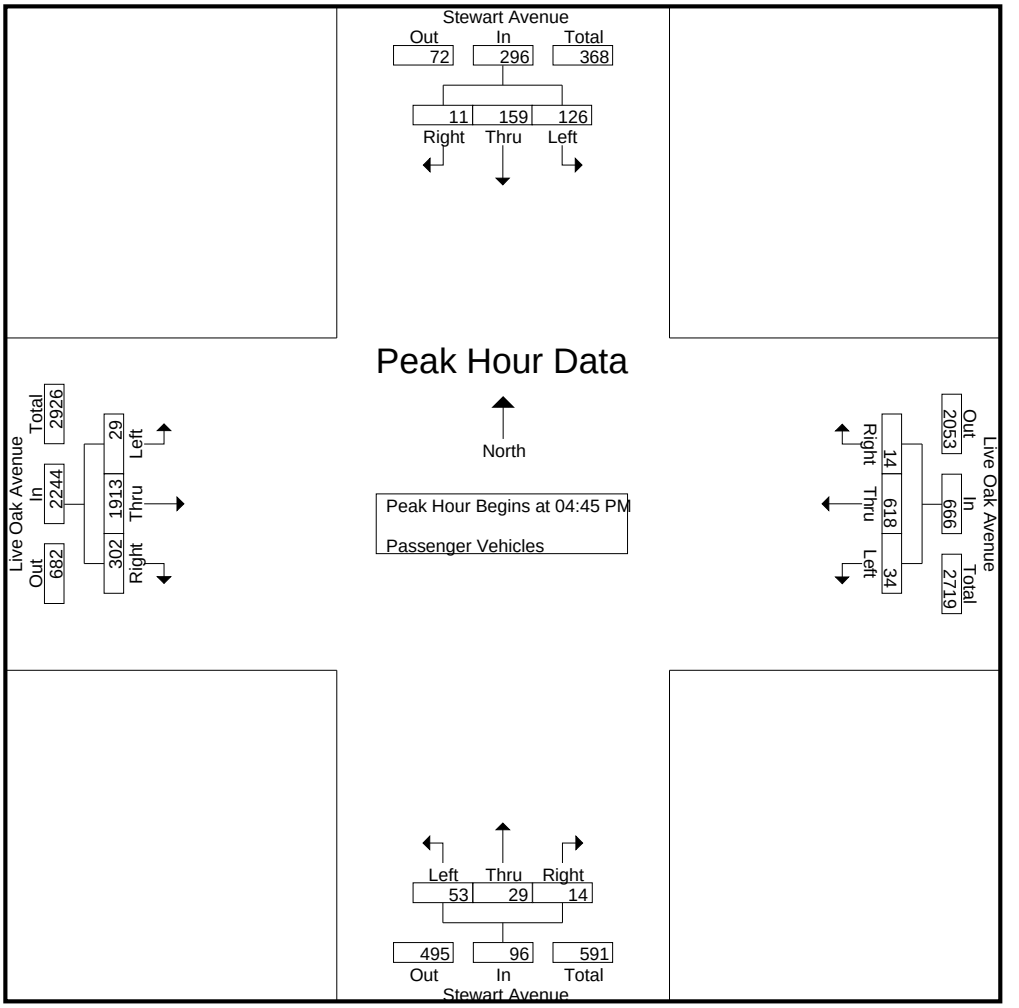

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	22	27	**4**	53	8	156	2	166	12	**9**	4	25	**8**	457	64	529
+15 mins.	32	**45**	2	79	7	**183**	3	**193**	11	8	1	20	6	**496**	79	**581**
+30 mins.	**38**	42	2	**82**	**12**	153	**6**	171	**19**	7	**6**	**32**	7	464	**87**	558
+45 mins.	34	45	3	82	7	126	3	136	11	5	3	19	8	496	72	576
Total Volume	126	159	11	296	34	618	14	666	53	29	14	96	29	1913	302	2244
% App. Total	42.6	53.7	3.7		5.1	92.8	2.1		55.2	30.2	14.6		1.3	85.2	13.5	
PHF	.829	.883	.688	.902	.708	.844	.583	.863	.697	.806	.583	.750	.906	.964	.868	.966

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City of Irwindale
N/S: Stewart Avenue
E/W: Live Oak Avenue
Weather: Clear

File Name : 05_IRW_Stewart_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- Large 2 Axle Vehicles

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	1	2	4	0	9	0	9	1	0	0	1	0	26	1	27	41
04:15 PM	3	0	0	3	0	4	0	4	1	0	0	1	0	23	1	24	32
04:30 PM	1	1	1	3	1	7	1	9	1	0	1	2	0	17	2	19	33
04:45 PM	1	0	1	2	0	6	0	6	0	0	1	1	1	20	2	23	32
Total	6	2	4	12	1	26	1	28	3	0	2	5	1	86	6	93	138
05:00 PM	1	0	0	1	0	6	0	6	0	0	1	1	0	12	1	13	21
05:15 PM	3	1	1	5	0	4	0	4	0	0	0	0	0	14	1	15	24
05:30 PM	0	0	0	0	0	1	1	2	0	0	0	0	0	16	0	16	18
05:45 PM	0	0	0	0	0	7	0	7	0	0	0	0	1	10	2	13	20
Total	4	1	1	6	0	18	1	19	0	0	1	1	1	52	4	57	83
Grand Total	10	3	5	18	1	44	2	47	3	0	3	6	2	138	10	150	221
Apprch %	55.6	16.7	27.8		2.1	93.6	4.3		50	0	50		1.3	92	6.7		
Total %	4.5	1.4	2.3	8.1	0.5	19.9	0.9	21.3	1.4	0	1.4	2.7	0.9	62.4	4.5	67.9	

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	1	0	**1**	2	0	**6**	0	**6**	0	0	**1**	**1**	**1**	**20**	**2**	**23**	**32**
05:00 PM	1	0	0	1	0	6	0	6	0	0	1	1	0	12	1	13	21
05:15 PM	**3**	**1**	1	**5**	0	4	0	4	0	0	0	0	0	14	1	15	24
05:30 PM	0	0	0	0	0	1	**1**	2	0	0	0	0	0	16	0	16	18
Total Volume	5	1	2	8	0	17	1	18	0	0	2	2	1	62	4	67	95
% App. Total	62.5	12.5	25		0	94.4	5.6		0	0	100		1.5	92.5	6		
PHF	.417	.250	.500	.400	.000	.708	.250	.750	.000	.000	.500	.500	.250	.775	.500	.728	.742

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File Name : 05_IRW_Stewart_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
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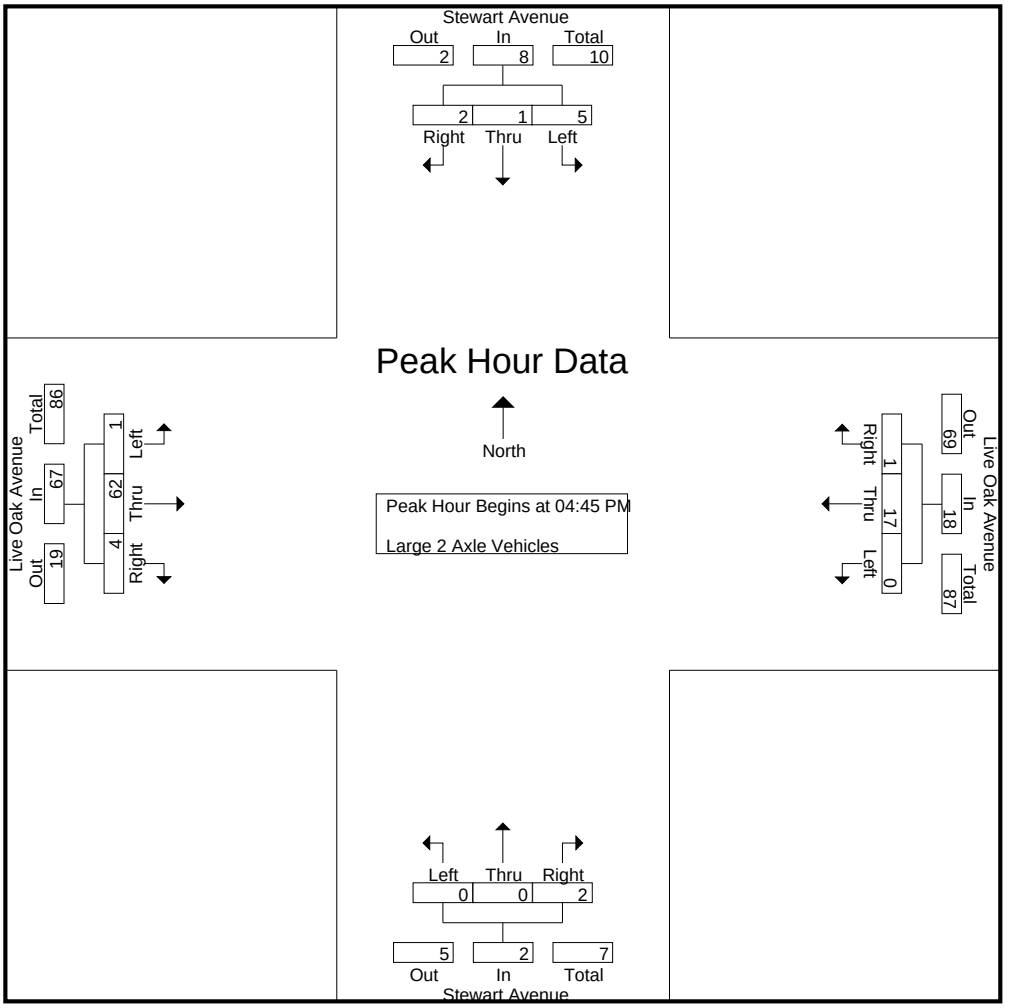

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	1	0	**1**	2	0	**6**	0	**6**	0	0	**1**	**1**	**1**	**20**	**2**	**23**
+15 mins.	1	0	0	1	0	6	0	6	0	0	1	1	0	12	1	13
+30 mins.	**3**	**1**	1	**5**	0	4	0	4	0	0	0	0	0	14	1	15
+45 mins.	0	0	0	0	0	1	**1**	2	0	0	0	0	0	16	0	16
Total Volume	5	1	2	8	0	17	1	18	0	0	2	2	1	62	4	67
% App. Total	62.5	12.5	25		0	94.4	5.6		0	0	100		1.5	92.5	6	
PHF	.417	.250	.500	.400	.000	.708	.250	.750	.000	.000	.500	.500	.250	.775	.500	.728

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City of Irwindale
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E/W: Live Oak Avenue
Weather: Clear

File Name : 05_IRW_Stewart_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- 3 Axle Vehicles

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	1	0	1	2	0	0	1	1	0	1	1	2	5
04:15 PM	0	2	0	2	3	1	0	4	0	0	0	0	0	2	0	2	8
04:30 PM	0	2	0	2	1	2	0	3	0	0	0	0	0	2	0	2	7
04:45 PM	0	5	0	5	0	2	0	2	0	0	0	0	0	1	0	1	8
Total	0	9	0	9	5	5	1	11	0	0	1	1	0	6	1	7	28
05:00 PM	0	3	0	3	0	0	0	0	0	0	0	0	0	3	1	4	7
05:15 PM	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	2
05:30 PM	0	1	0	1	1	1	0	2	0	0	0	0	0	1	1	2	5
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2
Total	0	5	0	5	1	2	0	3	0	0	0	0	0	5	3	8	16
Grand Total	0	14	0	14	6	7	1	14	0	0	1	1	0	11	4	15	44
Apprch %	0	100	0		42.9	50	7.1		0	0	100		0	73.3	26.7		
Total %	0	31.8	0	31.8	13.6	15.9	2.3	31.8	0	0	2.3	2.3	0	25	9.1	34.1	

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	**5**	0	**5**	0	**2**	0	**2**	0	0	0	0	0	1	0	1	**8**
05:00 PM	0	3	0	3	0	0	0	0	0	0	0	0	0	**3**	**1**	**4**	7
05:15 PM	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	2
05:30 PM	0	1	0	1	**1**	1	0	2	0	0	0	0	0	1	1	2	5
Total Volume	0	10	0	10	1	4	0	5	0	0	0	0	0	5	2	7	22
% App. Total	0	100	0		20	80	0		0	0	0		0	71.4	28.6		
PHF	.000	.500	.000	.500	.250	.500	.000	.625	.000	.000	.000	.000	.000	.417	.500	.438	.688

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City of Irwindale
N/S: Stewart Avenue
E/W: Live Oak Avenue
Weather: Clear

File Name : 05_IRW_Stewart_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
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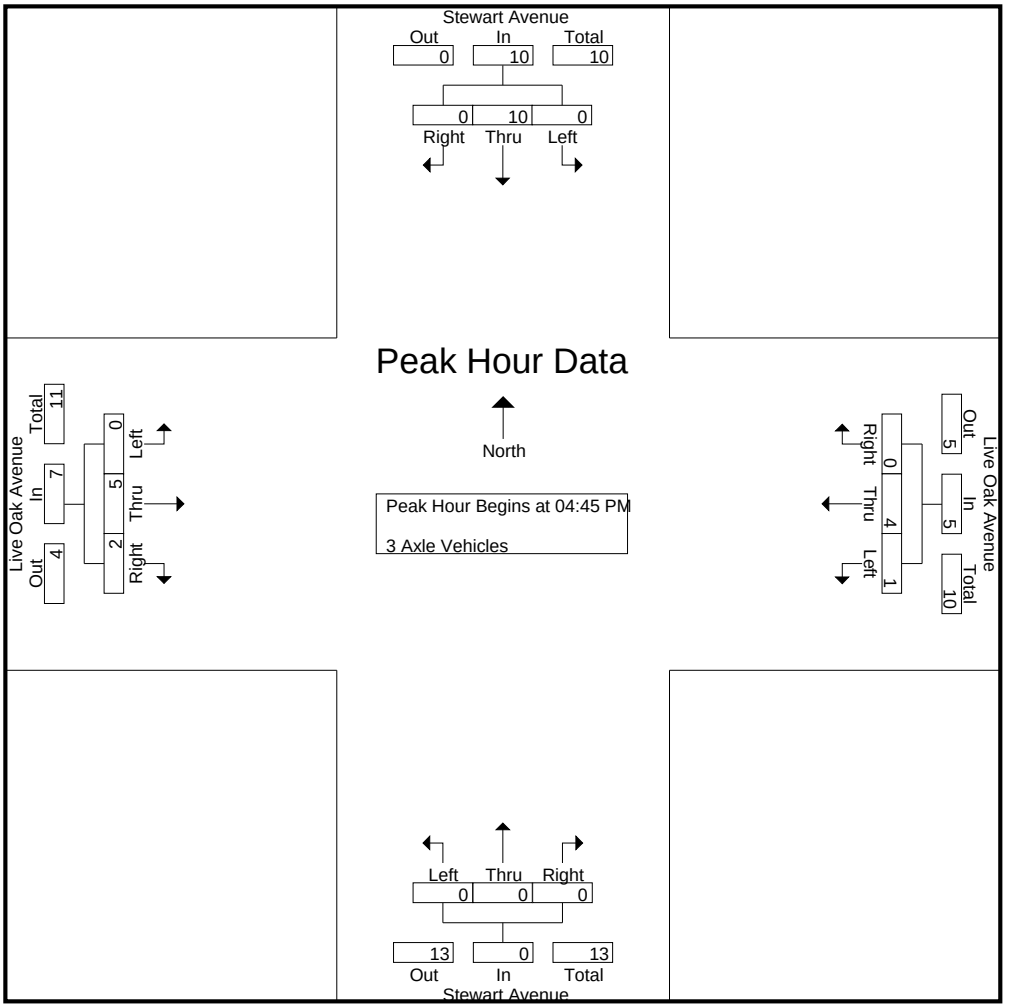

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	**5**	0	**5**	0	**2**	0	**2**	0	0	0	0	0	1	0	1
+15 mins.	0	3	0	3	0	0	0	0	0	0	0	0	0	**3**	**1**	**4**
+30 mins.	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0
+45 mins.	0	1	0	1	**1**	1	0	2	0	0	0	0	0	1	1	2
Total Volume	0	10	0	10	1	4	0	5	0	0	0	0	0	5	2	7
% App. Total	0	100	0		20	80	0		0	0	0		0	71.4	28.6	
PHF	.000	.500	.000	.500	.250	.500	.000	.625	.000	.000	.000	.000	.000	.417	.500	.438

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City of Irwindale
N/S: Stewart Avenue
E/W: Live Oak Avenue
Weather: Clear

File Name : 05_IRW_Stewart_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- 4+ Axle Trucks

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	4	0	4	0	0	0	0	1	5	0	6	10
04:15 PM	1	0	0	1	0	4	0	4	0	0	0	0	0	5	0	5	10
04:30 PM	0	0	2	2	0	1	0	1	0	0	0	0	0	5	0	5	8
04:45 PM	0	0	0	0	0	3	0	3	0	0	0	0	0	5	0	5	8
Total	1	0	2	3	0	12	0	12	0	0	0	0	1	20	0	21	36
05:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	3	0	3	4
05:15 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	3	0	3	4
05:30 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
05:45 PM	1	0	1	2	0	1	0	1	0	0	0	0	0	10	0	10	13
Total	1	0	1	2	0	4	0	4	0	0	0	0	0	16	0	16	22
Grand Total	2	0	3	5	0	16	0	16	0	0	0	0	1	36	0	37	58
Apprch %	40	0	60		0	100	0		0	0	0		2.7	97.3	0		
Total %	3.4	0	5.2	8.6	0	27.6	0	27.6	0	0	0	0	1.7	62.1	0	63.8	

	Stewart Avenue Southbound				Live Oak Avenue Westbound				Stewart Avenue Northbound				Live Oak Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	0	0	0	0	**3**	0	**3**	0	0	0	0	0	**5**	0	**5**	**8**
05:00 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	3	0	3	4
05:15 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	3	0	3	4
05:30 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
Total Volume	0	0	0	0	0	6	0	6	0	0	0	0	0	11	0	11	17
% App. Total	0	0	0		0	100	0		0	0	0		0	100	0		
PHF	.000	.000	.000	.000	.000	.500	.000	.500	.000	.000	.000	.000	.000	.550	.000	.550	.531

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City of Irwindale
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E/W: Live Oak Avenue
Weather: Clear

File Name : 05_IRW_Stewart_Live Oak PM
Site Code : 22518834
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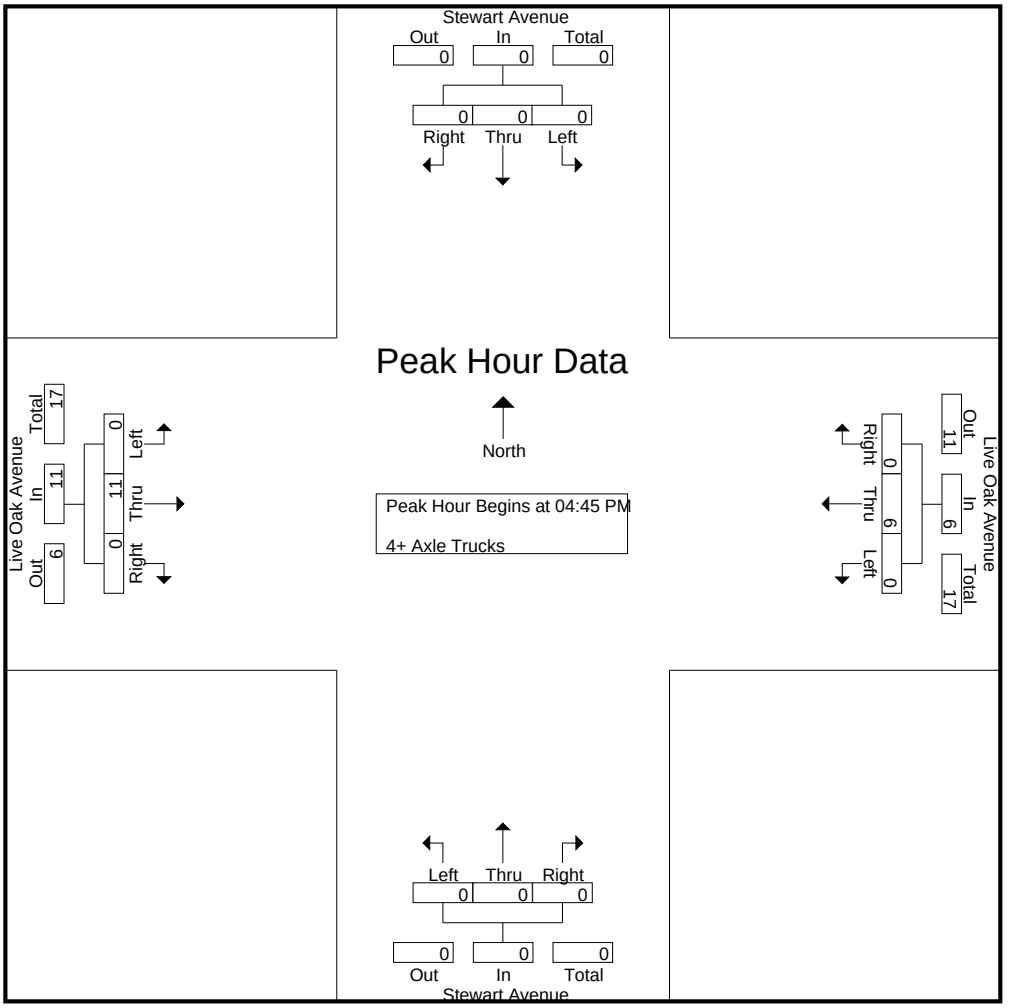

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:45 PM				04:45 PM				04:45 PM			
+0 mins.	0	0	0	0	0	**3**	0	**3**	0	0	0	0	0	**5**	0	**5**
+15 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	3	0	3
+30 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	3	0	3
+45 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	6	0	6	0	0	0	0	0	11	0	11
% App. Total	0	0	0		0	100	0		0	0	0		0	100	0	
PHF	.000	.000	.000	.000	.000	.500	.000	.500	.000	.000	.000	.000	.000	.550	.000	.550

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City of Irwindale
N/S: Baldwin Park Boulevard
E/W: Live Oak Avenue
Weather: Clear

File Name : 06_IRW_Baldwin Park_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	20	327	347	98	33	131	97	8	105	583
07:15 AM	24	310	334	113	47	160	98	13	111	605
07:30 AM	49	248	297	84	58	142	141	17	158	597
07:45 AM	43	226	269	74	66	140	208	30	238	647
Total	136	1111	1247	369	204	573	544	68	612	2432
08:00 AM	51	191	242	80	68	148	145	14	159	549
08:15 AM	37	226	263	78	50	128	126	12	138	529
08:30 AM	30	159	189	60	51	111	158	18	176	476
08:45 AM	34	180	214	40	40	80	139	18	157	451
Total	152	756	908	258	209	467	568	62	630	2005
Grand Total	288	1867	2155	627	413	1040	1112	130	1242	4437
Apprch %	13.4	86.6		60.3	39.7		89.5	10.5		
Total %	6.5	42.1	48.6	14.1	9.3	23.4	25.1	2.9	28	
Passenger Vehicles	273	1663	1936	600	396	996	971	117	1088	4020
% Passenger Vehicles	94.8	89.1	89.8	95.7	95.9	95.8	87.3	90	87.6	90.6
Large 2 Axle Vehicles	11	114	125	21	5	26	76	8	84	235
% Large 2 Axle Vehicles	3.8	6.1	5.8	3.3	1.2	2.5	6.8	6.2	6.8	5.3
3 Axle Vehicles	3	34	37	5	2	7	17	5	22	66
% 3 Axle Vehicles	1	1.8	1.7	0.8	0.5	0.7	1.5	3.8	1.8	1.5
4+ Axle Trucks	1	56	57	1	10	11	48	0	48	116
% 4+ Axle Trucks	0.3	3	2.6	0.2	2.4	1.1	4.3	0	3.9	2.6

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	20	**327**	**347**	98	33	131	97	8	105	583
07:15 AM	24	310	334	**113**	47	**160**	98	13	111	605
07:30 AM	**49**	248	297	84	58	142	141	17	158	597
07:45 AM	43	226	269	74	**66**	140	**208**	**30**	**238**	**647**
Total Volume	136	1111	1247	369	204	573	544	68	612	2432
% App. Total	10.9	89.1		64.4	35.6		88.9	11.1		
PHF	.694	.849	.898	.816	.773	.895	.654	.567	.643	.940

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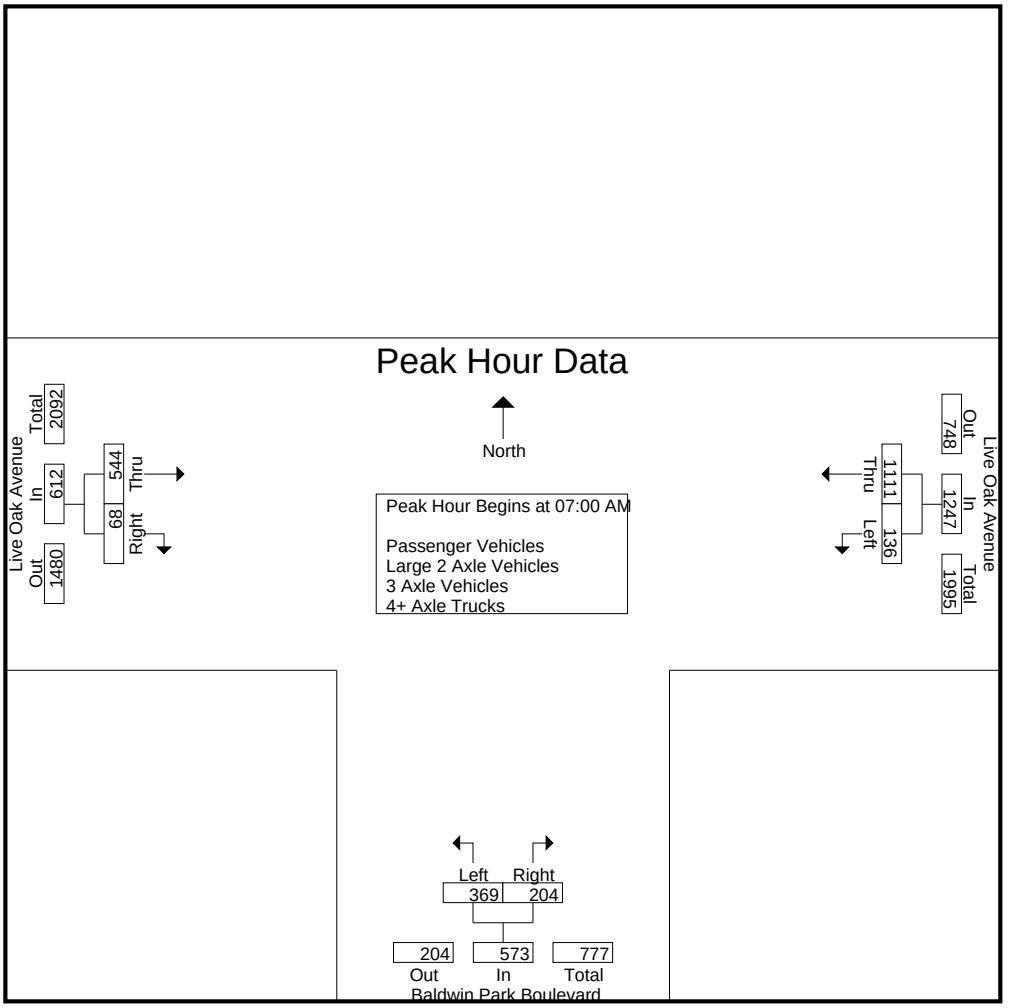
Weather: Clear

File Name : 06_IRW_Baldwin Park_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:15 AM			07:45 AM		
+0 mins.	20	**327**	**347**	**113**	47	**160**	**208**	**30**	**238**
+15 mins.	24	310	334	84	58	142	145	14	159
+30 mins.	**49**	248	297	74	66	140	126	12	138
+45 mins.	43	226	269	80	**68**	148	158	18	176
Total Volume	136	1111	1247	351	239	590	637	74	711
% App. Total	10.9	89.1		59.5	40.5		89.6	10.4	
PHF	.694	.849	.898	.777	.879	.922	.766	.617	.747

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City of Irwindale
N/S: Baldwin Park Boulevard
E/W: Live Oak Avenue
Weather: Clear

File Name : 06_IRW_Baldwin Park_Live Oak AM
Site Code : 22518834
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Page No : 1

Groups Printed- Passenger Vehicles

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	18	294	312	94	32	126	85	8	93	531
07:15 AM	24	274	298	111	47	158	87	10	97	553
07:30 AM	48	224	272	82	56	138	124	16	140	550
07:45 AM	41	201	242	74	65	139	179	29	208	589
Total	131	993	1124	361	200	561	475	63	538	2223
08:00 AM	47	170	217	76	67	143	130	13	143	503
08:15 AM	34	211	245	73	48	121	107	10	117	483
08:30 AM	29	135	164	52	45	97	137	15	152	413
08:45 AM	32	154	186	38	36	74	122	16	138	398
Total	142	670	812	239	196	435	496	54	550	1797
Grand Total	273	1663	1936	600	396	996	971	117	1088	4020
Apprch %	14.1	85.9		60.2	39.8		89.2	10.8		
Total %	6.8	41.4	48.2	14.9	9.9	24.8	24.2	2.9	27.1	

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	18	**294**	**312**	94	32	126	85	8	93	531
07:15 AM	24	274	298	**111**	47	**158**	87	10	97	553
07:30 AM	**48**	224	272	82	56	138	124	16	140	550
07:45 AM	41	201	242	74	**65**	139	**179**	**29**	**208**	**589**
Total Volume	131	993	1124	361	200	561	475	63	538	2223
% App. Total	11.7	88.3		64.3	35.7		88.3	11.7		
PHF	.682	.844	.901	.813	.769	.888	.663	.543	.647	.944

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City of Irwindale
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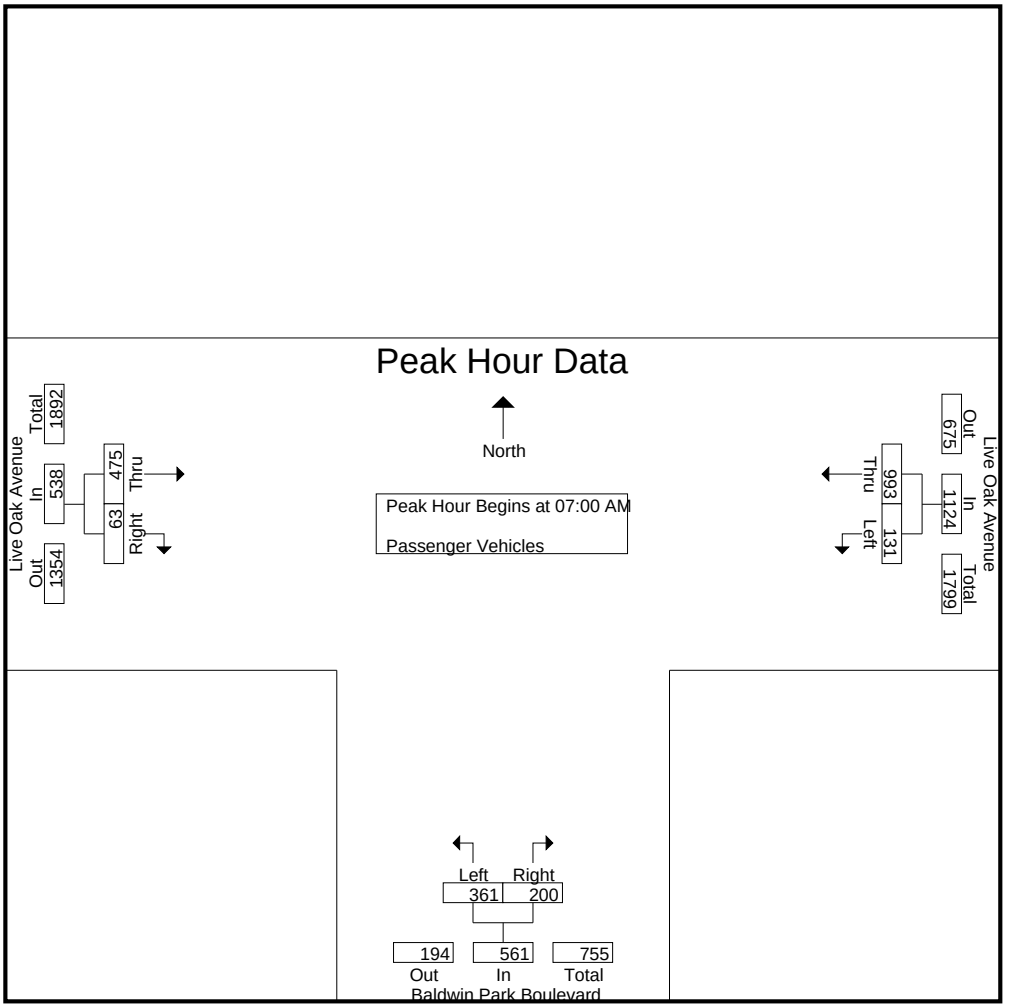
File Name : 06_IRW_Baldwin Park_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	18	**294**	**312**	94	32	126	85	8	93
+15 mins.	24	274	298	**111**	47	**158**	87	10	97
+30 mins.	**48**	224	272	82	56	138	124	16	140
+45 mins.	41	201	242	74	**65**	139	**179**	**29**	**208**
Total Volume	131	993	1124	361	200	561	475	63	538
% App. Total	11.7	88.3		64.3	35.7		88.3	11.7	
PHF	.682	.844	.901	.813	.769	.888	.663	.543	.647

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City of Irwindale
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File Name : 06_IRW_Baldwin Park_Live Oak AM
Site Code : 22518834
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Groups Printed- Large 2 Axle Vehicles

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	1	22	23	4	0	4	7	0	7	34
07:15 AM	0	19	19	2	0	2	8	1	9	30
07:30 AM	1	11	12	2	1	3	12	1	13	28
07:45 AM	1	18	19	0	0	0	14	1	15	34
Total	3	70	73	8	1	9	41	3	44	126
08:00 AM	3	11	14	2	0	2	11	1	12	28
08:15 AM	3	6	9	5	1	6	10	2	12	27
08:30 AM	1	14	15	4	1	5	9	1	10	30
08:45 AM	1	13	14	2	2	4	5	1	6	24
Total	8	44	52	13	4	17	35	5	40	109
Grand Total	11	114	125	21	5	26	76	8	84	235
Apprch %	8.8	91.2		80.8	19.2		90.5	9.5		
Total %	4.7	48.5	53.2	8.9	2.1	11.1	32.3	3.4	35.7	

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	**1**	**22**	**23**	**4**	0	**4**	7	0	7	**34**
07:15 AM	0	19	19	2	0	2	8	**1**	9	30
07:30 AM	1	11	12	2	**1**	3	12	1	13	28
07:45 AM	1	18	19	0	0	0	**14**	1	**15**	34
Total Volume	3	70	73	8	1	9	41	3	44	126
% App. Total	4.1	95.9		88.9	11.1		93.2	6.8		
PHF	.750	.795	.793	.500	.250	.563	.732	.750	.733	.926

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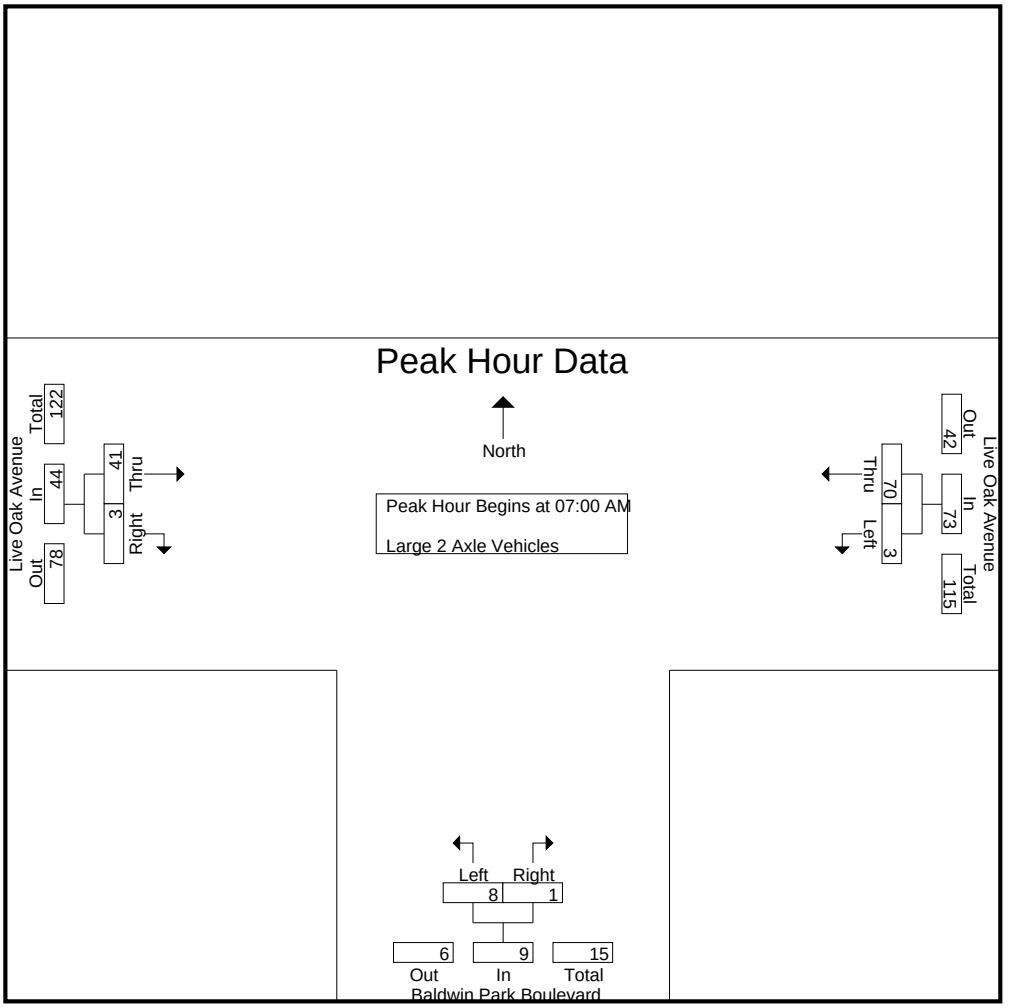

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	**1**	**22**	**23**	**4**	0	**4**	7	0	7
+15 mins.	0	19	19	2	0	2	8	**1**	9
+30 mins.	1	11	12	2	**1**	3	12	1	13
+45 mins.	1	18	19	0	0	0	**14**	1	**15**
Total Volume	3	70	73	8	1	9	41	3	44
% App. Total	4.1	95.9		88.9	11.1		93.2	6.8	
PHF	.750	.795	.793	.500	.250	.563	.732	.750	.733

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City of Irwindale
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E/W: Live Oak Avenue
Weather: Clear

File Name : 06_IRW_Baldwin Park_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- 3 Axle Vehicles

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	1	2	3	0	0	0	0	0	0	3
07:15 AM	0	8	8	0	0	0	1	2	3	11
07:30 AM	0	6	6	0	1	1	2	0	2	9
07:45 AM	0	3	3	0	0	0	6	0	6	9
Total	1	19	20	0	1	1	9	2	11	32
08:00 AM	1	4	5	2	0	2	2	0	2	9
08:15 AM	0	4	4	0	1	1	1	0	1	6
08:30 AM	0	4	4	3	0	3	2	2	4	11
08:45 AM	1	3	4	0	0	0	3	1	4	8
Total	2	15	17	5	1	6	8	3	11	34
Grand Total	3	34	37	5	2	7	17	5	22	66
Apprch %	8.1	91.9		71.4	28.6		77.3	22.7		
Total %	4.5	51.5	56.1	7.6	3	10.6	25.8	7.6	33.3	

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	**1**	2	3	0	0	0	0	0	0	3
07:15 AM	0	**8**	**8**	0	0	0	1	**2**	3	**11**
07:30 AM	0	6	6	0	**1**	**1**	2	0	2	9
07:45 AM	0	3	3	0	0	0	**6**	0	**6**	9
Total Volume	1	19	20	0	1	1	9	2	11	32
% App. Total	5	95		0	100		81.8	18.2		
PHF	.250	.594	.625	.000	.250	.250	.375	.250	.458	.727

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City of Irwindale
N/S: Baldwin Park Boulevard
E/W: Live Oak Avenue
Weather: Clear

File Name : 06_IRW_Baldwin Park_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
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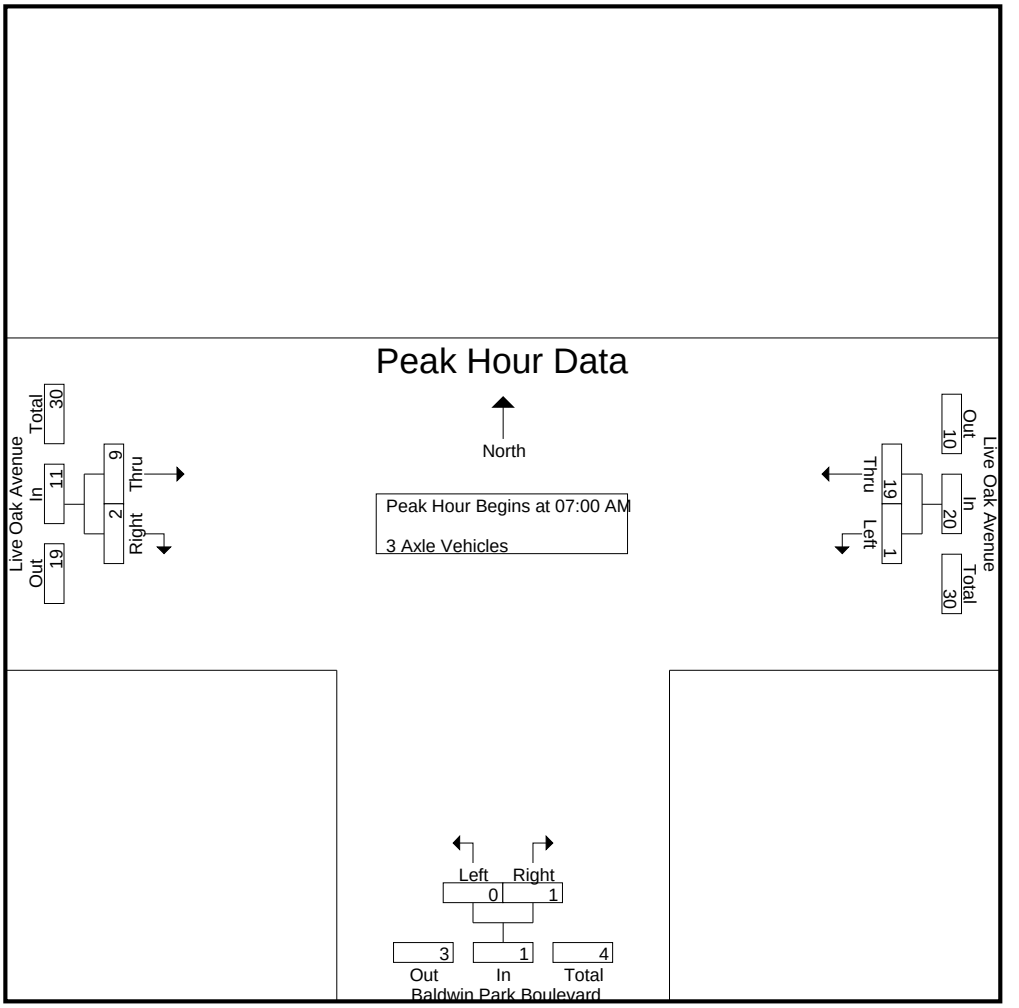

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	**1**	2	3	0	0	0	0	0	0
+15 mins.	0	**8**	**8**	0	0	0	1	**2**	3
+30 mins.	0	6	6	0	**1**	**1**	2	0	2
+45 mins.	0	3	3	0	0	0	**6**	0	**6**
Total Volume	1	19	20	0	1	1	9	2	11
% App. Total	5	95		0	100		81.8	18.2	
PHF	.250	.594	.625	.000	.250	.250	.375	.250	.458

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City of Irwindale
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Groups Printed- 4+ Axle Trucks

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	9	9	0	1	1	5	0	5	15
07:15 AM	0	9	9	0	0	0	2	0	2	11
07:30 AM	0	7	7	0	0	0	3	0	3	10
07:45 AM	1	4	5	0	1	1	9	0	9	15
Total	1	29	30	0	2	2	19	0	19	51
08:00 AM	0	6	6	0	1	1	2	0	2	9
08:15 AM	0	5	5	0	0	0	8	0	8	13
08:30 AM	0	6	6	1	5	6	10	0	10	22
08:45 AM	0	10	10	0	2	2	9	0	9	21
Total	0	27	27	1	8	9	29	0	29	65
Grand Total	1	56	57	1	10	11	48	0	48	116
Apprch %	1.8	98.2		9.1	90.9		100	0		
Total %	0.9	48.3	49.1	0.9	8.6	9.5	41.4	0	41.4	

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	0	**9**	**9**	0	**1**	**1**	5	0	5	**15**
07:15 AM	0	9	9	0	0	0	2	0	2	11
07:30 AM	0	7	7	0	0	0	3	0	3	10
07:45 AM	**1**	4	5	0	1	1	**9**	0	**9**	15
Total Volume	1	29	30	0	2	2	19	0	19	51
% App. Total	3.3	96.7		0	100		100	0		
PHF	.250	.806	.833	.000	.500	.500	.528	.000	.528	.850

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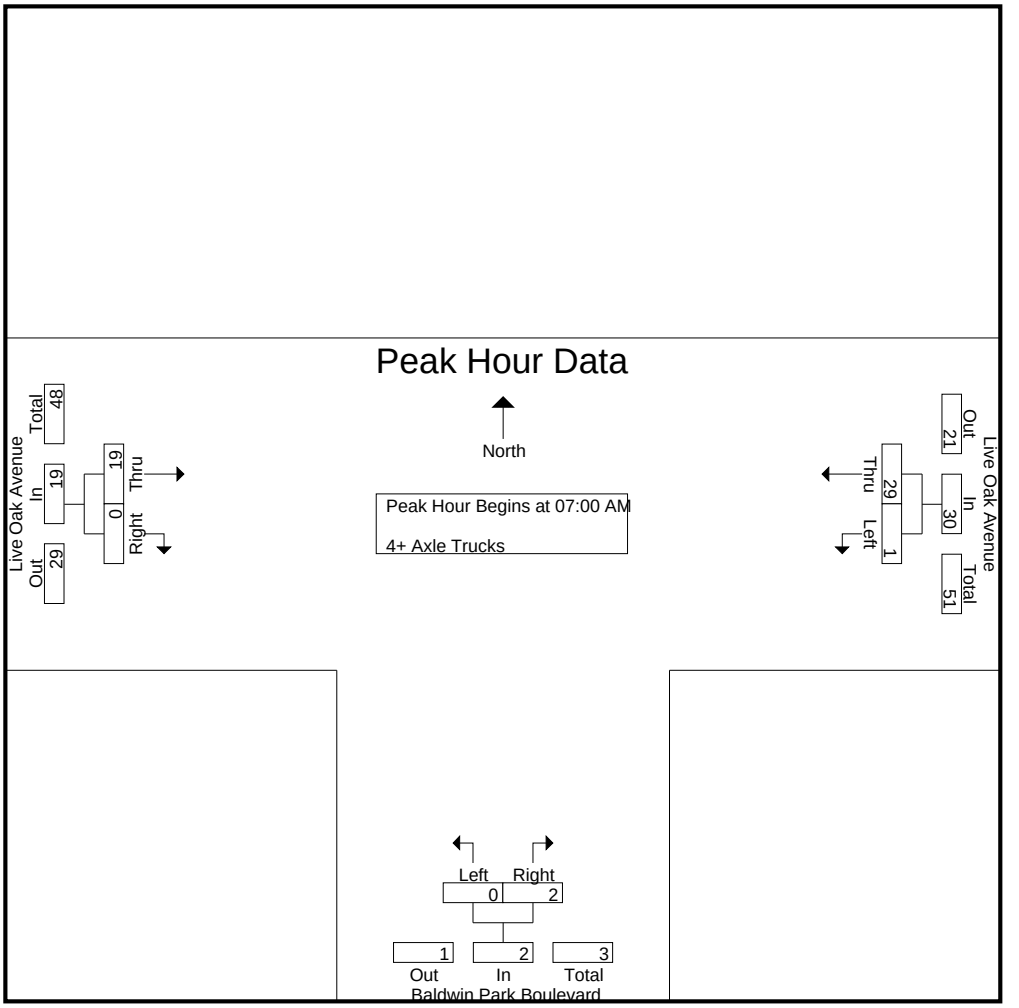

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	**9**	**9**	0	**1**	**1**	5	0	5
+15 mins.	0	9	9	0	0	0	2	0	2
+30 mins.	0	7	7	0	0	0	3	0	3
+45 mins.	**1**	4	5	0	1	1	**9**	0	**9**
Total Volume	1	29	30	0	2	2	19	0	19
% App. Total	3.3	96.7		0	100		100	0	
PHF	.250	.806	.833	.000	.500	.500	.528	.000	.528

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City of Irwindale
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Weather: Clear

File Name : 06_IRW_Baldwin Park_Live Oak PM
Site Code : 22518834
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	51	136	187	20	31	51	323	108	431	669
04:15 PM	68	172	240	19	27	46	328	130	458	744
04:30 PM	65	161	226	12	35	47	356	104	460	733
04:45 PM	65	138	203	24	29	53	340	122	462	718
Total	249	607	856	75	122	197	1347	464	1811	2864
05:00 PM	62	172	234	23	22	45	348	160	508	787
05:15 PM	75	144	219	24	26	50	366	135	501	770
05:30 PM	96	124	220	28	38	66	356	152	508	794
05:45 PM	68	129	197	19	40	59	340	143	483	739
Total	301	569	870	94	126	220	1410	590	2000	3090
Grand Total	550	1176	1726	169	248	417	2757	1054	3811	5954
Apprch %	31.9	68.1		40.5	59.5		72.3	27.7		
Total %	9.2	19.8	29	2.8	4.2	7	46.3	17.7	64	
Passenger Vehicles	526	1096	1622	162	240	402	2588	1015	3603	5627
% Passenger Vehicles	95.6	93.2	94	95.9	96.8	96.4	93.9	96.3	94.5	94.5
Large 2 Axle Vehicles	16	44	60	6	6	12	121	35	156	228
% Large 2 Axle Vehicles	2.9	3.7	3.5	3.6	2.4	2.9	4.4	3.3	4.1	3.8
3 Axle Vehicles	3	14	17	1	0	1	14	2	16	34
% 3 Axle Vehicles	0.5	1.2	1	0.6	0	0.2	0.5	0.2	0.4	0.6
4+ Axle Trucks	5	22	27	0	2	2	34	2	36	65
% 4+ Axle Trucks	0.9	1.9	1.6	0	0.8	0.5	1.2	0.2	0.9	1.1

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	62	**172**	**234**	23	22	45	348	**160**	**508**	787
05:15 PM	75	144	219	24	26	50	**366**	135	501	770
05:30 PM	**96**	124	220	**28**	38	**66**	356	152	508	**794**
05:45 PM	68	129	197	19	**40**	59	340	143	483	739
Total Volume	301	569	870	94	126	220	1410	590	2000	3090
% App. Total	34.6	65.4		42.7	57.3		70.5	29.5		
PHF	.784	.827	.929	.839	.788	.833	.963	.922	.984	.973

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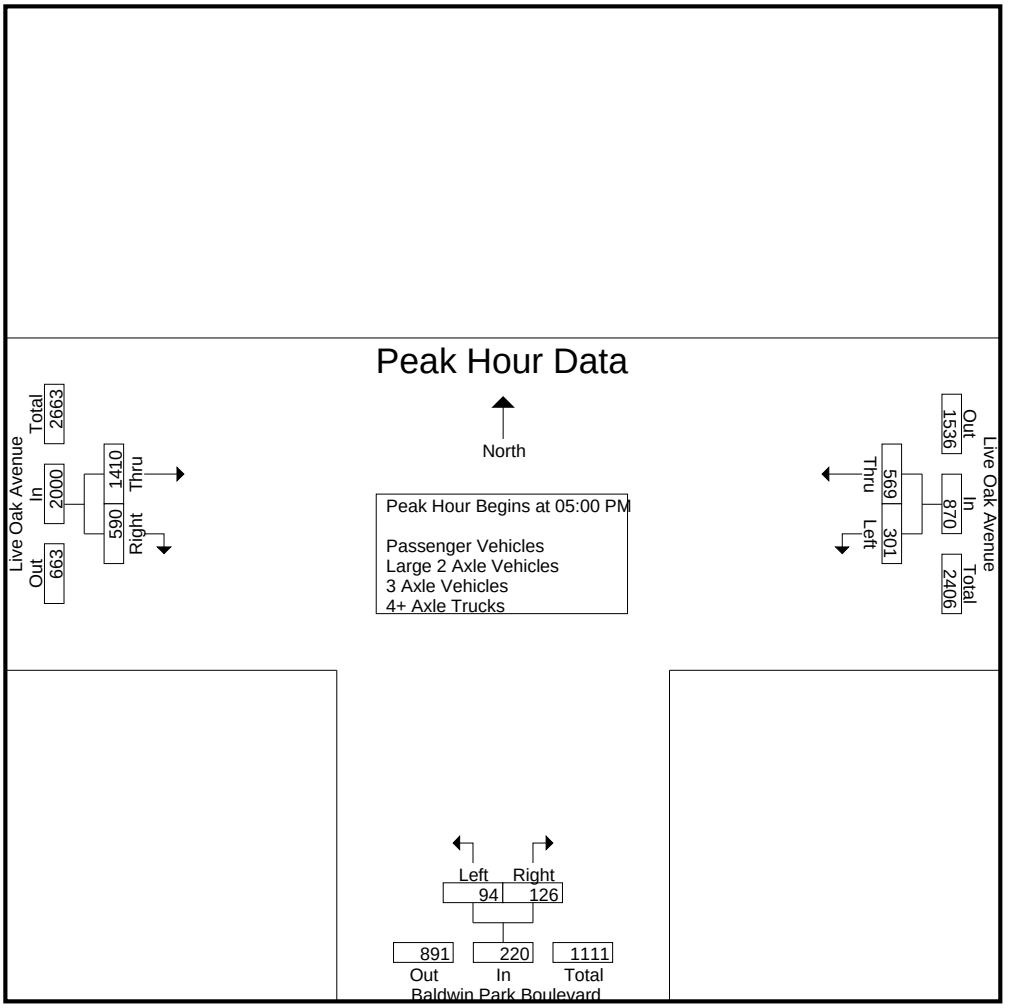

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM			05:00 PM			05:00 PM		
+0 mins.	**68**	**172**	**240**	23	22	45	348	**160**	**508**
+15 mins.	65	161	226	24	26	50	**366**	135	501
+30 mins.	65	138	203	**28**	38	**66**	356	152	508
+45 mins.	62	172	234	19	**40**	59	340	143	483
Total Volume	260	643	903	94	126	220	1410	590	2000
% App. Total	28.8	71.2		42.7	57.3		70.5	29.5	
PHF	.956	.935	.941	.839	.788	.833	.963	.922	.984

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Site Code : 22518834
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Groups Printed- Passenger Vehicles

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	49	123	172	17	31	48	296	100	396	616
04:15 PM	67	159	226	19	27	46	299	123	422	694
04:30 PM	61	148	209	11	32	43	333	99	432	684
04:45 PM	59	125	184	24	28	52	318	119	437	673
Total	236	555	791	71	118	189	1246	441	1687	2667
05:00 PM	59	164	223	23	22	45	332	155	487	755
05:15 PM	73	134	207	24	25	49	348	131	479	735
05:30 PM	92	121	213	26	36	62	344	147	491	766
05:45 PM	66	122	188	18	39	57	318	141	459	704
Total	290	541	831	91	122	213	1342	574	1916	2960
Grand Total	526	1096	1622	162	240	402	2588	1015	3603	5627
Apprch %	32.4	67.6		40.3	59.7		71.8	28.2		
Total %	9.3	19.5	28.8	2.9	4.3	7.1	46	18	64	

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	59	**164**	**223**	23	22	45	332	**155**	487	755
05:15 PM	73	134	207	24	25	49	**348**	131	479	735
05:30 PM	**92**	121	213	**26**	36	**62**	344	147	**491**	**766**
05:45 PM	66	122	188	18	**39**	57	318	141	459	704
Total Volume	290	541	831	91	122	213	1342	574	1916	2960
% App. Total	34.9	65.1		42.7	57.3		70	30		
PHF	.788	.825	.932	.875	.782	.859	.964	.926	.976	.966

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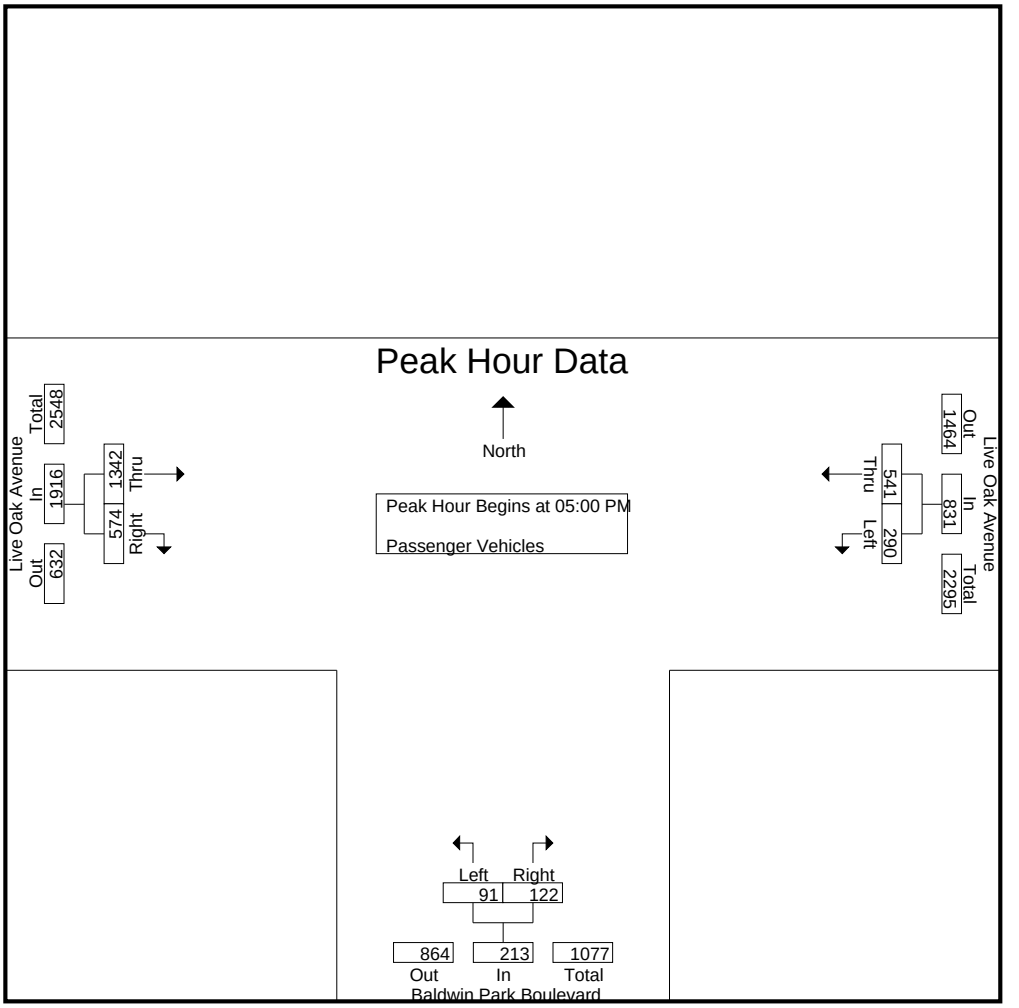

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	59	**164**	**223**	23	22	45	332	**155**	487
+15 mins.	73	134	207	24	25	49	**348**	131	479
+30 mins.	**92**	121	213	**26**	36	**62**	344	147	**491**
+45 mins.	66	122	188	18	**39**	57	318	141	459
Total Volume	290	541	831	91	122	213	1342	574	1916
% App. Total	34.9	65.1		42.7	57.3		70	30	
PHF	.788	.825	.932	.875	.782	.859	.964	.926	.976

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Groups Printed- Large 2 Axle Vehicles

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	1	9	10	2	0	2	19	7	26	38
04:15 PM	0	4	4	0	0	0	20	7	27	31
04:30 PM	3	8	11	1	3	4	17	4	21	36
04:45 PM	5	6	11	0	1	1	17	2	19	31
Total	9	27	36	3	4	7	73	20	93	136
05:00 PM	2	5	7	0	0	0	11	5	16	23
05:15 PM	2	4	6	0	0	0	15	4	19	25
05:30 PM	2	2	4	2	1	3	11	4	15	22
05:45 PM	1	6	7	1	1	2	11	2	13	22
Total	7	17	24	3	2	5	48	15	63	92
Grand Total	16	44	60	6	6	12	121	35	156	228
Apprch %	26.7	73.3		50	50		77.6	22.4		
Total %	7	19.3	26.3	2.6	2.6	5.3	53.1	15.4	68.4	

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	**2**	5	**7**	0	0	0	11	**5**	16	23
05:15 PM	2	4	6	0	0	0	**15**	4	**19**	**25**
05:30 PM	2	2	4	**2**	**1**	**3**	11	4	15	22
05:45 PM	1	**6**	7	1	1	2	11	2	13	22
Total Volume	7	17	24	3	2	5	48	15	63	92
% App. Total	29.2	70.8		60	40		76.2	23.8		
PHF	.875	.708	.857	.375	.500	.417	.800	.750	.829	.920

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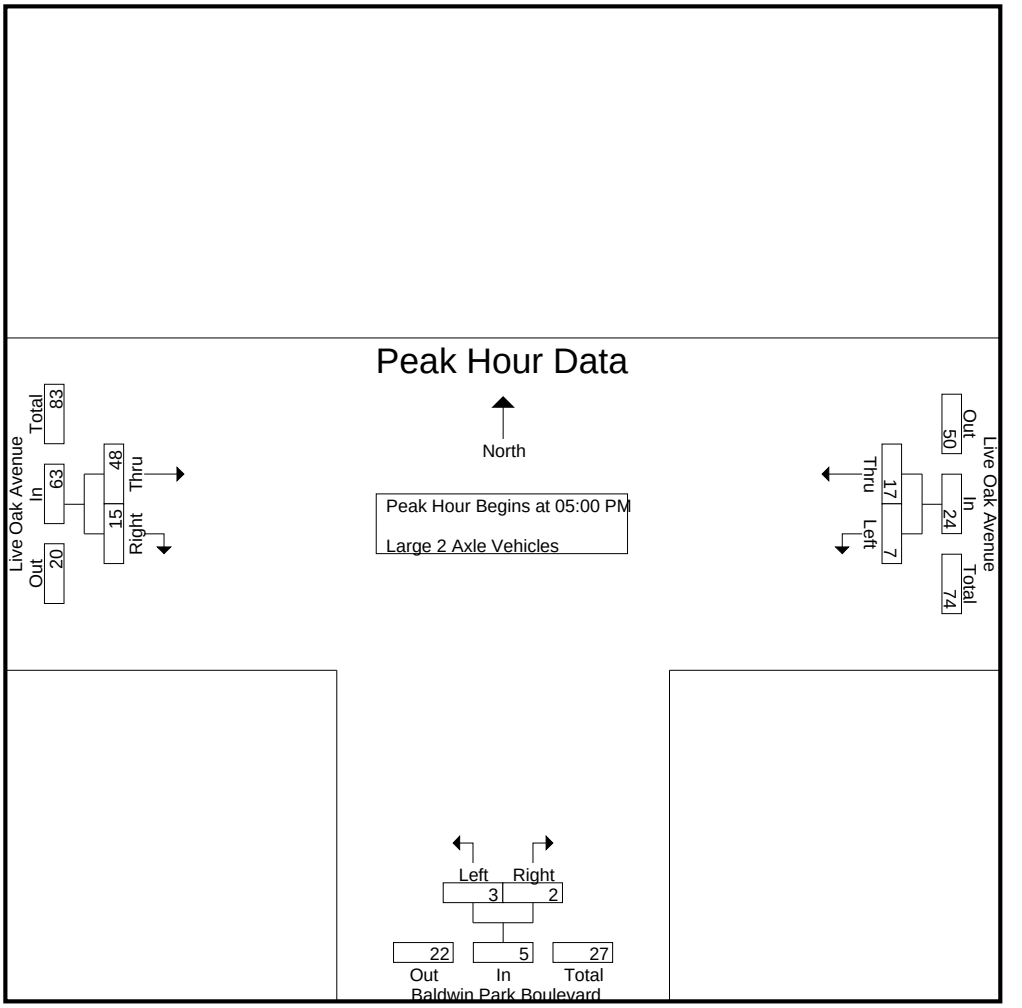

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	**2**	5	**7**	0	0	0	11	**5**	16
+15 mins.	2	4	6	0	0	0	**15**	4	**19**
+30 mins.	2	2	4	**2**	**1**	**3**	11	4	15
+45 mins.	1	**6**	7	1	1	2	11	2	13
Total Volume	7	17	24	3	2	5	48	15	63
% App. Total	29.2	70.8		60	40		76.2	23.8	
PHF	.875	.708	.857	.375	.500	.417	.800	.750	.829

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Groups Printed- 3 Axle Vehicles

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	1	0	1	3	1	4	5
04:15 PM	1	4	5	0	0	0	2	0	2	7
04:30 PM	0	3	3	0	0	0	2	0	2	5
04:45 PM	1	3	4	0	0	0	2	0	2	6
Total	2	10	12	1	0	1	9	1	10	23
05:00 PM	1	0	1	0	0	0	2	0	2	3
05:15 PM	0	3	3	0	0	0	1	0	1	4
05:30 PM	0	1	1	0	0	0	1	1	2	3
05:45 PM	0	0	0	0	0	0	1	0	1	1
Total	1	4	5	0	0	0	5	1	6	11
Grand Total	3	14	17	1	0	1	14	2	16	34
Apprch %	17.6	82.4		100	0		87.5	12.5		
Total %	8.8	41.2	50	2.9	0	2.9	41.2	5.9	47.1	

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	**1**	0	1	0	0	0	**2**	0	**2**	3
05:15 PM	0	**3**	**3**	0	0	0	1	0	1	**4**
05:30 PM	0	1	1	0	0	0	1	**1**	2	3
05:45 PM	0	0	0	0	0	0	1	0	1	1
Total Volume	1	4	5	0	0	0	5	1	6	11
% App. Total	20	80		0	0		83.3	16.7		
PHF	.250	.333	.417	.000	.000	.000	.625	.250	.750	.688

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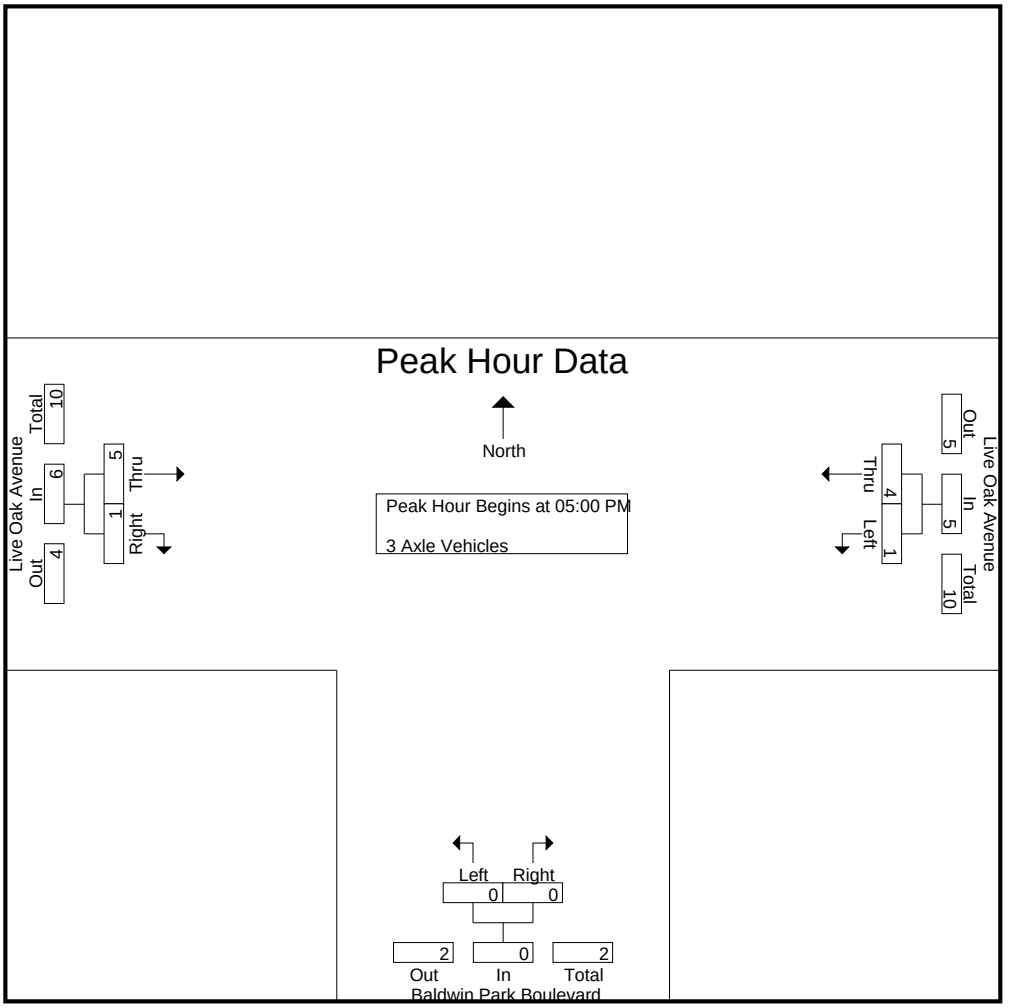

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	**1**	0	1	0	0	0	**2**	0	**2**
+15 mins.	0	**3**	**3**	0	0	0	1	0	1
+30 mins.	0	1	1	0	0	0	1	**1**	2
+45 mins.	0	0	0	0	0	0	1	0	1
Total Volume	1	4	5	0	0	0	5	1	6
% App. Total	20	80		0	0		83.3	16.7	
PHF	.250	.333	.417	.000	.000	.000	.625	.250	.750

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Groups Printed- 4+ Axle Trucks

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	1	4	5	0	0	0	5	0	5	10
04:15 PM	0	5	5	0	0	0	7	0	7	12
04:30 PM	1	2	3	0	0	0	4	1	5	8
04:45 PM	0	4	4	0	0	0	3	1	4	8
Total	2	15	17	0	0	0	19	2	21	38
05:00 PM	0	3	3	0	0	0	3	0	3	6
05:15 PM	0	3	3	0	1	1	2	0	2	6
05:30 PM	2	0	2	0	1	1	0	0	0	3
05:45 PM	1	1	2	0	0	0	10	0	10	12
Total	3	7	10	0	2	2	15	0	15	27
Grand Total	5	22	27	0	2	2	34	2	36	65
Apprch %	18.5	81.5		0	100		94.4	5.6		
Total %	7.7	33.8	41.5	0	3.1	3.1	52.3	3.1	55.4	

	Live Oak Avenue Westbound			Baldwin Park Boulevard Northbound			Live Oak Avenue Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	**3**	**3**	0	0	0	3	0	3	6
05:15 PM	0	3	3	0	**1**	**1**	2	0	2	6
05:30 PM	**2**	0	2	0	1	1	0	0	0	3
05:45 PM	1	1	2	0	0	0	**10**	0	**10**	**12**
Total Volume	3	7	10	0	2	2	15	0	15	27
% App. Total	30	70		0	100		100	0		
PHF	.375	.583	.833	.000	.500	.500	.375	.000	.375	.563

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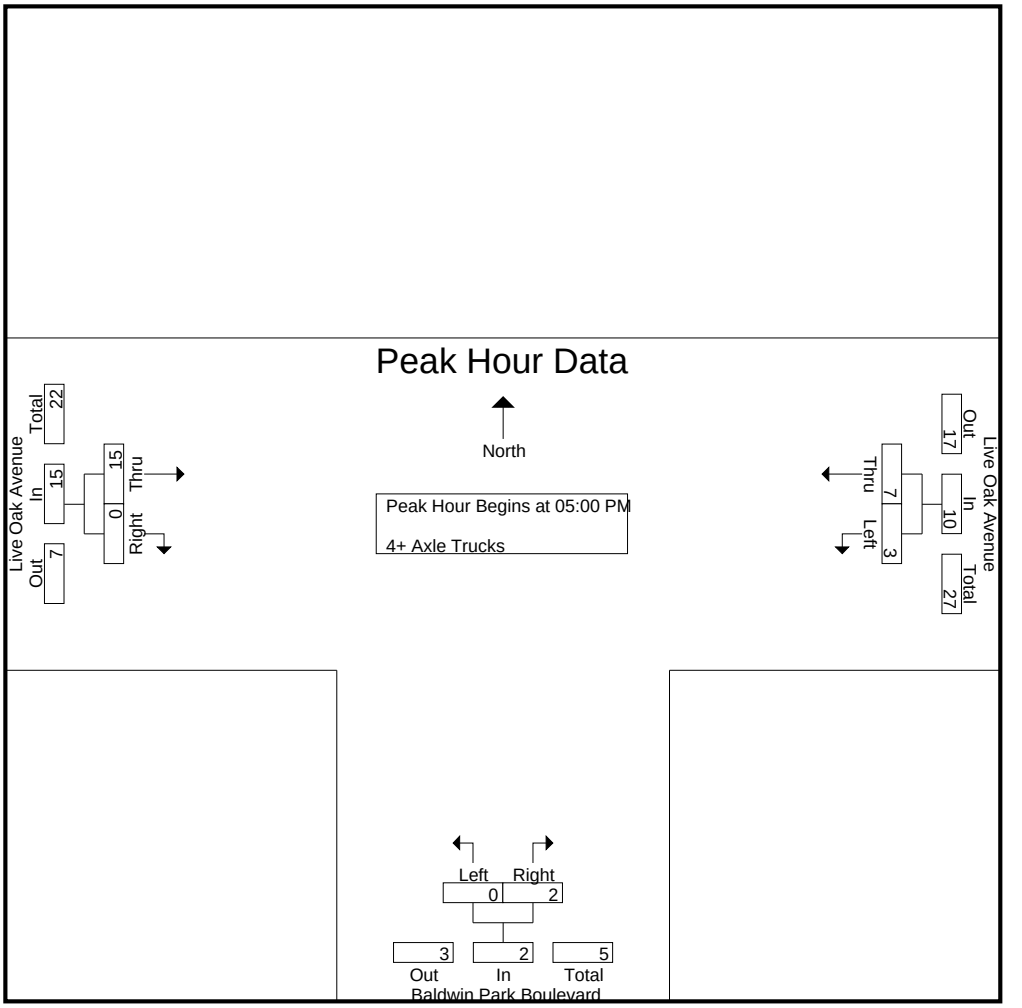
City of Irwindale
N/S: Baldwin Park Boulevard
E/W: Live Oak Avenue
Weather: Clear

File Name : 06_IRW_Baldwin Park_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	**3**	**3**	0	0	0	3	0	3
+15 mins.	0	3	3	0	**1**	**1**	2	0	2
+30 mins.	**2**	0	2	0	1	1	0	0	0
+45 mins.	1	1	2	0	0	0	**10**	0	**10**
Total Volume	3	7	10	0	2	2	15	0	15
% App. Total	30	70		0	100		100	0	
PHF	.375	.583	.833	.000	.500	.500	.375	.000	.375

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City of Irwindale
N/S: Arrow Highway
E/W: Live Oak Avenue/Arrow Highway
Weather: Clear

File Name : 07_IRW_Arrow_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	52	10	62	334	461	795	17	115	132	989
07:15 AM	52	9	61	330	361	691	21	114	135	887
07:30 AM	90	21	111	260	344	604	25	167	192	907
07:45 AM	98	16	114	261	272	533	33	219	252	899
Total	292	56	348	1185	1438	2623	96	615	711	3682
08:00 AM	76	23	99	234	231	465	37	184	221	785
08:15 AM	81	15	96	216	251	467	28	158	186	749
08:30 AM	105	17	122	171	209	380	19	176	195	697
08:45 AM	103	9	112	193	185	378	17	152	169	659
Total	365	64	429	814	876	1690	101	670	771	2890
Grand Total	657	120	777	1999	2314	4313	197	1285	1482	6572
Apprch %	84.6	15.4		46.3	53.7		13.3	86.7		
Total %	10	1.8	11.8	30.4	35.2	65.6	3	19.6	22.6	
Passenger Vehicles	613	117	730	1873	2278	4151	193	1197	1390	6271
% Passenger Vehicles	93.3	97.5	94	93.7	98.4	96.2	98	93.2	93.8	95.4
Large 2 Axle Vehicles	26	3	29	44	18	62	1	27	28	119
% Large 2 Axle Vehicles	4	2.5	3.7	2.2	0.8	1.4	0.5	2.1	1.9	1.8
3 Axle Vehicles	11	0	11	30	10	40	0	15	15	66
% 3 Axle Vehicles	1.7	0	1.4	1.5	0.4	0.9	0	1.2	1	1
4+ Axle Trucks	7	0	7	52	8	60	3	46	49	116
% 4+ Axle Trucks	1.1	0	0.9	2.6	0.3	1.4	1.5	3.6	3.3	1.8

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	52	10	62	**334**	**461**	**795**	17	115	132	**989**
07:15 AM	52	9	61	330	361	691	21	114	135	887
07:30 AM	90	**21**	111	260	344	604	25	167	192	907
07:45 AM	**98**	16	**114**	261	272	533	**33**	**219**	**252**	899
Total Volume	292	56	348	1185	1438	2623	96	615	711	3682
% App. Total	83.9	16.1		45.2	54.8		13.5	86.5		
PHF	.745	.667	.763	.887	.780	.825	.727	.702	.705	.931

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City of Irwindale
N/S: Arrow Highway
E/W: Live Oak Avenue/Arrow Highway
Weather: Clear

File Name : 07_IRW_Arrow_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
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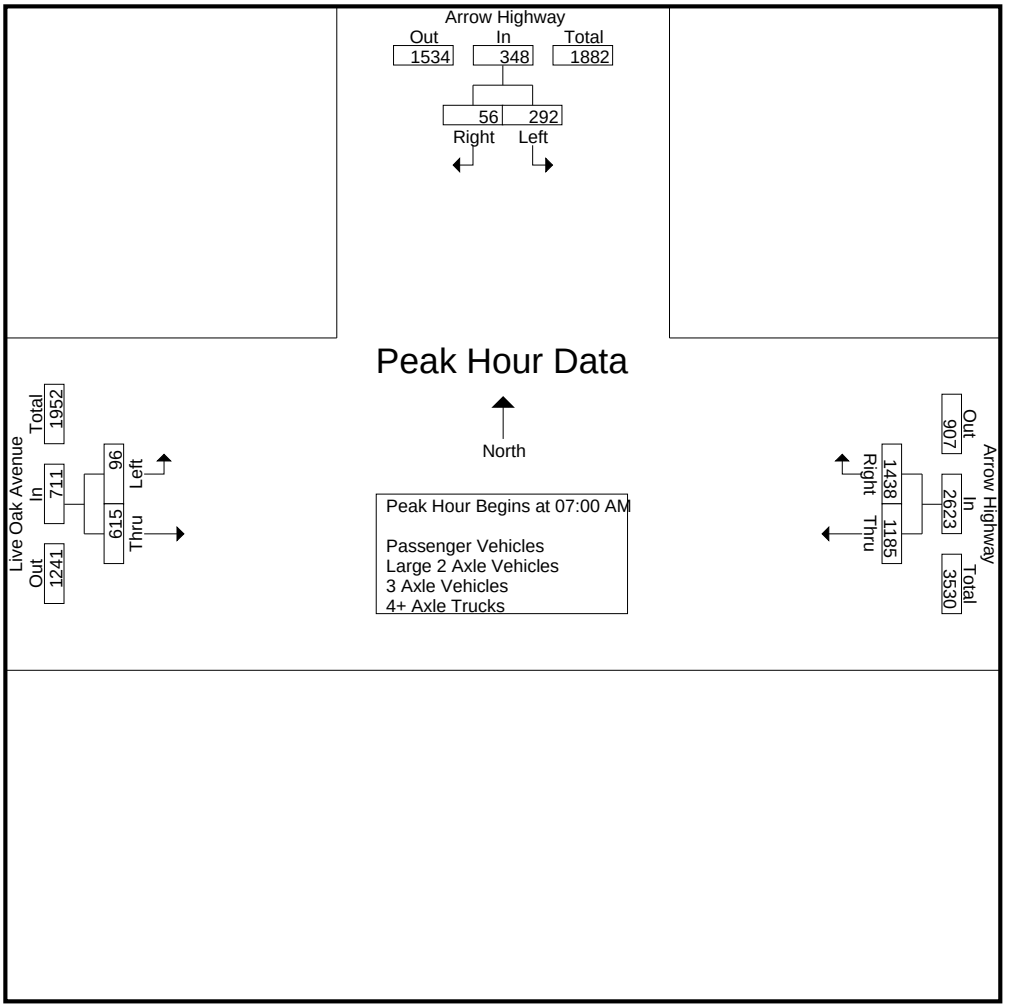

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:00 AM			07:45 AM		
+0 mins.	98	16	114	**334**	**461**	**795**	33	**219**	**252**
+15 mins.	76	**23**	99	330	361	691	**37**	184	221
+30 mins.	81	15	96	260	344	604	28	158	186
+45 mins.	**105**	17	**122**	261	272	533	19	176	195
Total Volume	360	71	431	1185	1438	2623	117	737	854
% App. Total	83.5	16.5		45.2	54.8		13.7	86.3	
PHF	.857	.772	.883	.887	.780	.825	.791	.841	.847

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City of Irwindale
N/S: Arrow Highway
E/W: Live Oak Avenue/Arrow Highway
Weather: Clear

File Name : 07_IRW_Arrow_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Passenger Vehicles

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	47	10	57	314	453	767	16	108	124	948
07:15 AM	51	9	60	305	359	664	21	111	132	856
07:30 AM	87	21	108	247	342	589	25	157	182	879
07:45 AM	94	16	110	251	266	517	31	205	236	863
Total	279	56	335	1117	1420	2537	93	581	674	3546
08:00 AM	68	22	90	223	230	453	37	173	210	753
08:15 AM	76	13	89	207	240	447	28	147	175	711
08:30 AM	99	17	116	151	206	357	18	161	179	652
08:45 AM	91	9	100	175	182	357	17	135	152	609
Total	334	61	395	756	858	1614	100	616	716	2725
Grand Total	613	117	730	1873	2278	4151	193	1197	1390	6271
Apprch %	84	16		45.1	54.9		13.9	86.1		
Total %	9.8	1.9	11.6	29.9	36.3	66.2	3.1	19.1	22.2	

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	47	10	57	**314**	**453**	**767**	16	108	124	**948**
07:15 AM	51	9	60	305	359	664	21	111	132	856
07:30 AM	87	**21**	108	247	342	589	25	157	182	879
07:45 AM	**94**	16	**110**	251	266	517	**31**	**205**	**236**	863
Total Volume	279	56	335	1117	1420	2537	93	581	674	3546
% App. Total	83.3	16.7		44	56		13.8	86.2		
PHF	.742	.667	.761	.889	.784	.827	.750	.709	.714	.935

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City of Irwindale
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Weather: Clear

File Name : 07_IRW_Arrow_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
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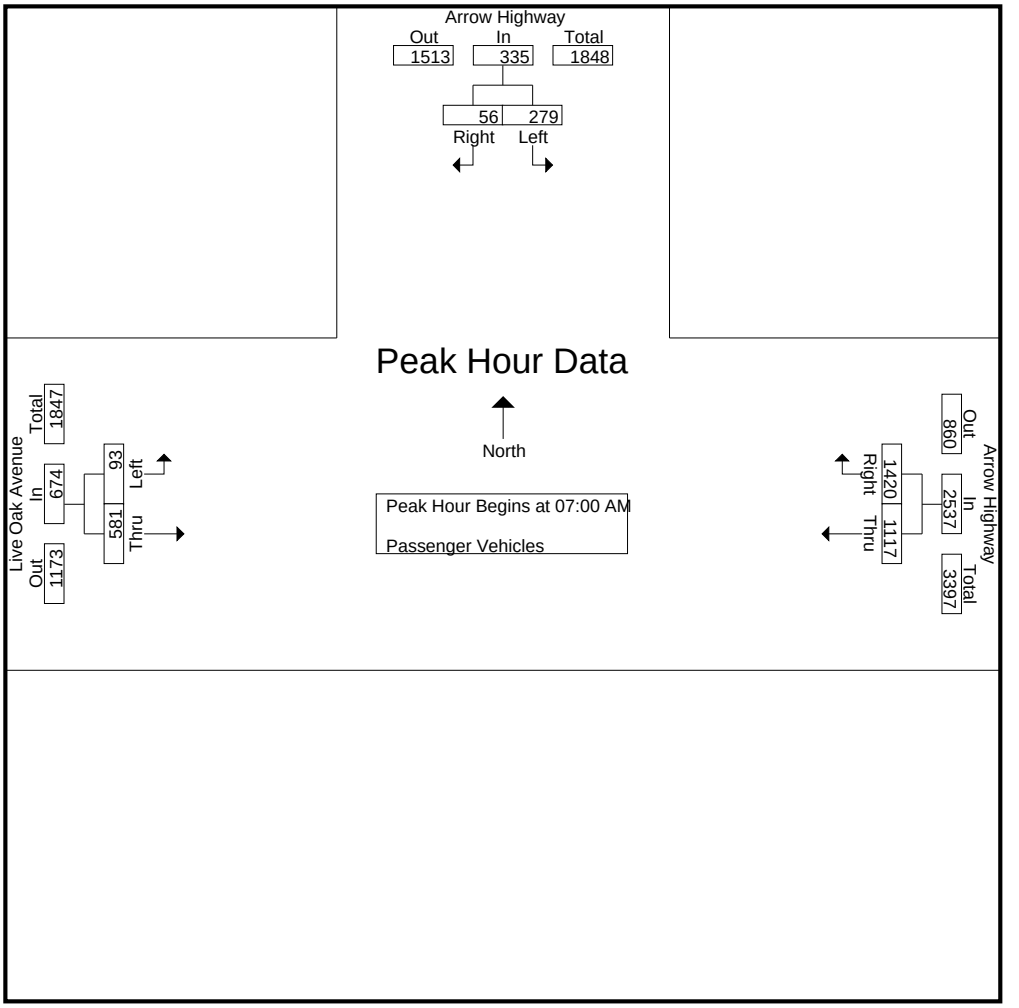

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	47	10	57	**314**	**453**	**767**	16	108	124
+15 mins.	51	9	60	305	359	664	21	111	132
+30 mins.	87	**21**	108	247	342	589	25	157	182
+45 mins.	**94**	16	**110**	251	266	517	**31**	**205**	**236**
Total Volume	279	56	335	1117	1420	2537	93	581	674
% App. Total	83.3	16.7		44	56		13.8	86.2	
PHF	.742	.667	.761	.889	.784	.827	.750	.709	.714

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City of Irwindale
N/S: Arrow Highway
E/W: Live Oak Avenue/Arrow Highway
Weather: Clear

File Name : 07_IRW_Arrow_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	1	0	1	10	4	14	0	1	1	16
07:15 AM	0	0	0	10	0	10	0	1	1	11
07:30 AM	0	0	0	2	0	2	0	4	4	6
07:45 AM	3	0	3	2	3	5	0	2	2	10
Total	4	0	4	24	7	31	0	8	8	43
08:00 AM	6	1	7	2	1	3	0	7	7	17
08:15 AM	4	2	6	2	8	10	0	5	5	21
08:30 AM	3	0	3	11	1	12	1	3	4	19
08:45 AM	9	0	9	5	1	6	0	4	4	19
Total	22	3	25	20	11	31	1	19	20	76
Grand Total	26	3	29	44	18	62	1	27	28	119
Apprch %	89.7	10.3		71	29		3.6	96.4		
Total %	21.8	2.5	24.4	37	15.1	52.1	0.8	22.7	23.5	

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	1	0	1	**10**	**4**	**14**	0	1	1	**16**
07:15 AM	0	0	0	10	0	10	0	1	1	11
07:30 AM	0	0	0	2	0	2	0	**4**	**4**	6
07:45 AM	**3**	0	**3**	2	3	5	0	2	2	10
Total Volume	4	0	4	24	7	31	0	8	8	43
% App. Total	100	0		77.4	22.6		0	100		
PHF	.333	.000	.333	.600	.438	.554	.000	.500	.500	.672

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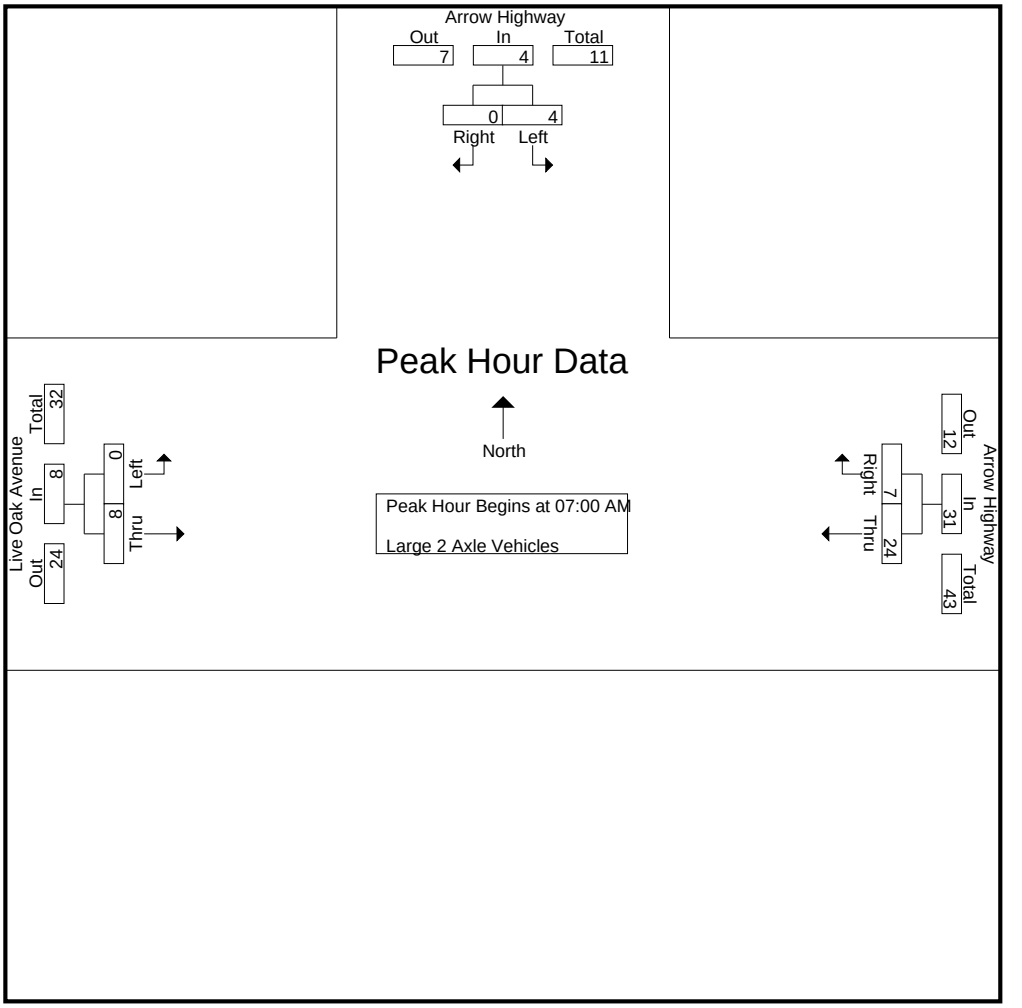
City of Irwindale
N/S: Arrow Highway
E/W: Live Oak Avenue/Arrow Highway
Weather: Clear

File Name : 07_IRW_Arrow_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 2



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	1	0	1	**10**	**4**	**14**	0	1	1
+15 mins.	0	0	0	10	0	10	0	1	1
+30 mins.	0	0	0	2	0	2	0	**4**	**4**
+45 mins.	**3**	0	**3**	2	3	5	0	2	2
Total Volume	4	0	4	24	7	31	0	8	8
% App. Total	100	0		77.4	22.6		0	100	
PHF	.333	.000	.333	.600	.438	.554	.000	.500	.500

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City of Irwindale
N/S: Arrow Highway
E/W: Live Oak Avenue/Arrow Highway
Weather: Clear

File Name : 07_IRW_Arrow_Live Oak AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- 3 Axle Vehicles

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	2	0	2	1	4	5	0	0	0	7
07:15 AM	0	0	0	6	1	7	0	0	0	7
07:30 AM	3	0	3	4	1	5	0	3	3	11
07:45 AM	1	0	1	4	0	4	0	5	5	10
Total	6	0	6	15	6	21	0	8	8	35
08:00 AM	1	0	1	4	0	4	0	1	1	6
08:15 AM	1	0	1	3	1	4	0	3	3	8
08:30 AM	3	0	3	4	2	6	0	0	0	9
08:45 AM	0	0	0	4	1	5	0	3	3	8
Total	5	0	5	15	4	19	0	7	7	31
Grand Total	11	0	11	30	10	40	0	15	15	66
Apprch %	100	0		75	25		0	100		
Total %	16.7	0	16.7	45.5	15.2	60.6	0	22.7	22.7	

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	2	0	2	1	**4**	5	0	0	0	7
07:15 AM	0	0	0	**6**	1	**7**	0	0	0	7
07:30 AM	**3**	0	**3**	4	1	5	0	3	3	**11**
07:45 AM	1	0	1	4	0	4	0	**5**	**5**	10
Total Volume	6	0	6	15	6	21	0	8	8	35
% App. Total	100	0		71.4	28.6		0	100		
PHF	.500	.000	.500	.625	.375	.750	.000	.400	.400	.795

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City of Irwindale
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E/W: Live Oak Avenue/Arrow Highway
Weather: Clear

File Name : 07_IRW_Arrow_Live Oak AM
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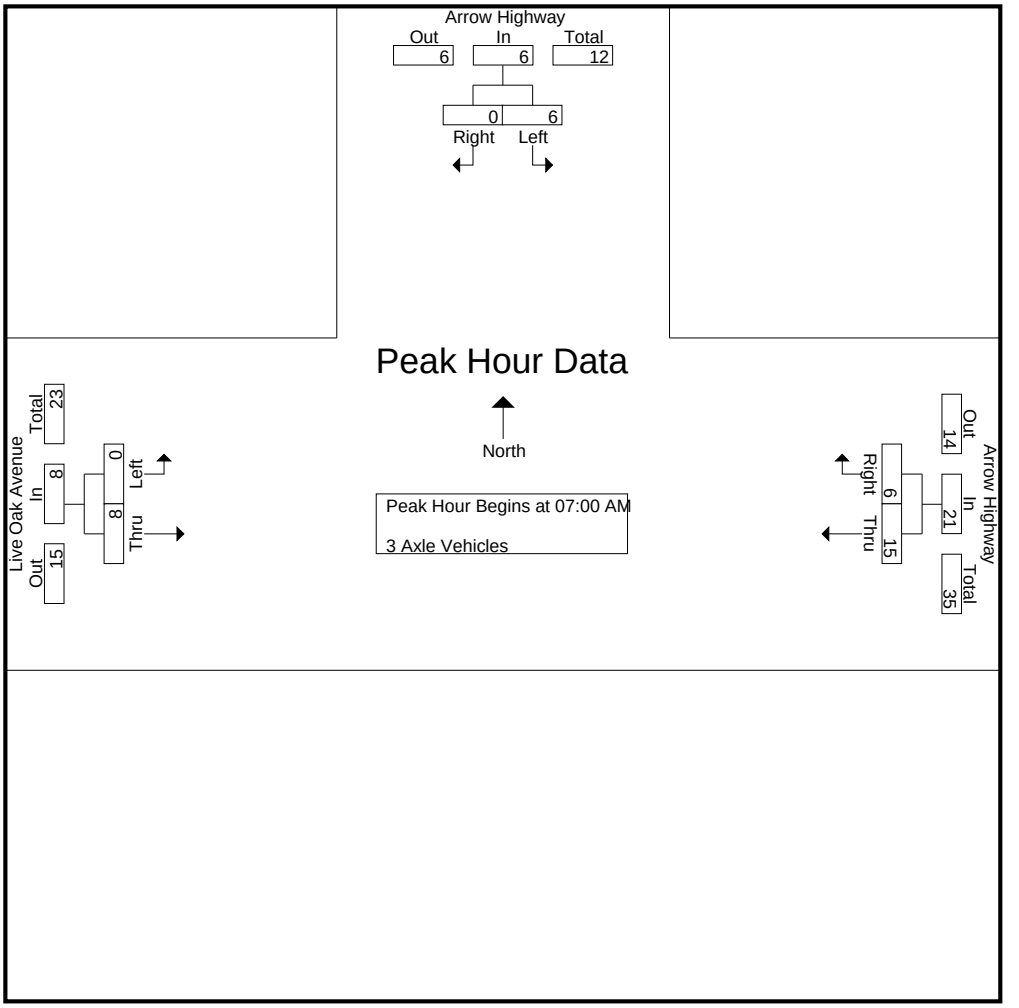

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	2	0	2	1	**4**	5	0	0	0
+15 mins.	0	0	0	**6**	1	**7**	0	0	0
+30 mins.	**3**	0	**3**	4	1	5	0	3	3
+45 mins.	1	0	1	4	0	4	0	**5**	**5**
Total Volume	6	0	6	15	6	21	0	8	8
% App. Total	100	0		71.4	28.6		0	100	
PHF	.500	.000	.500	.625	.375	.750	.000	.400	.400

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City of Irwindale
N/S: Arrow Highway
E/W: Live Oak Avenue/Arrow Highway
Weather: Clear

File Name : 07_IRW_Arrow_Live Oak AM
Site Code : 22518834
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Groups Printed- 4+ Axle Trucks

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	2	0	2	9	0	9	1	6	7	18
07:15 AM	1	0	1	9	1	10	0	2	2	13
07:30 AM	0	0	0	7	1	8	0	3	3	11
07:45 AM	0	0	0	4	3	7	2	7	9	16
Total	3	0	3	29	5	34	3	18	21	58
08:00 AM	1	0	1	5	0	5	0	3	3	9
08:15 AM	0	0	0	4	2	6	0	3	3	9
08:30 AM	0	0	0	5	0	5	0	12	12	17
08:45 AM	3	0	3	9	1	10	0	10	10	23
Total	4	0	4	23	3	26	0	28	28	58
Grand Total	7	0	7	52	8	60	3	46	49	116
Apprch %	100	0		86.7	13.3		6.1	93.9		
Total %	6	0	6	44.8	6.9	51.7	2.6	39.7	42.2	

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	**2**	0	**2**	**9**	0	9	1	6	7	**18**
07:15 AM	1	0	1	9	1	**10**	0	2	2	13
07:30 AM	0	0	0	7	1	8	0	3	3	11
07:45 AM	0	0	0	4	**3**	7	**2**	**7**	**9**	16
Total Volume	3	0	3	29	5	34	3	18	21	58
% App. Total	100	0		85.3	14.7		14.3	85.7		
PHF	.375	.000	.375	.806	.417	.850	.375	.643	.583	.806

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City of Irwindale
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E/W: Live Oak Avenue/Arrow Highway
Weather: Clear

File Name : 07_IRW_Arrow_Live Oak AM
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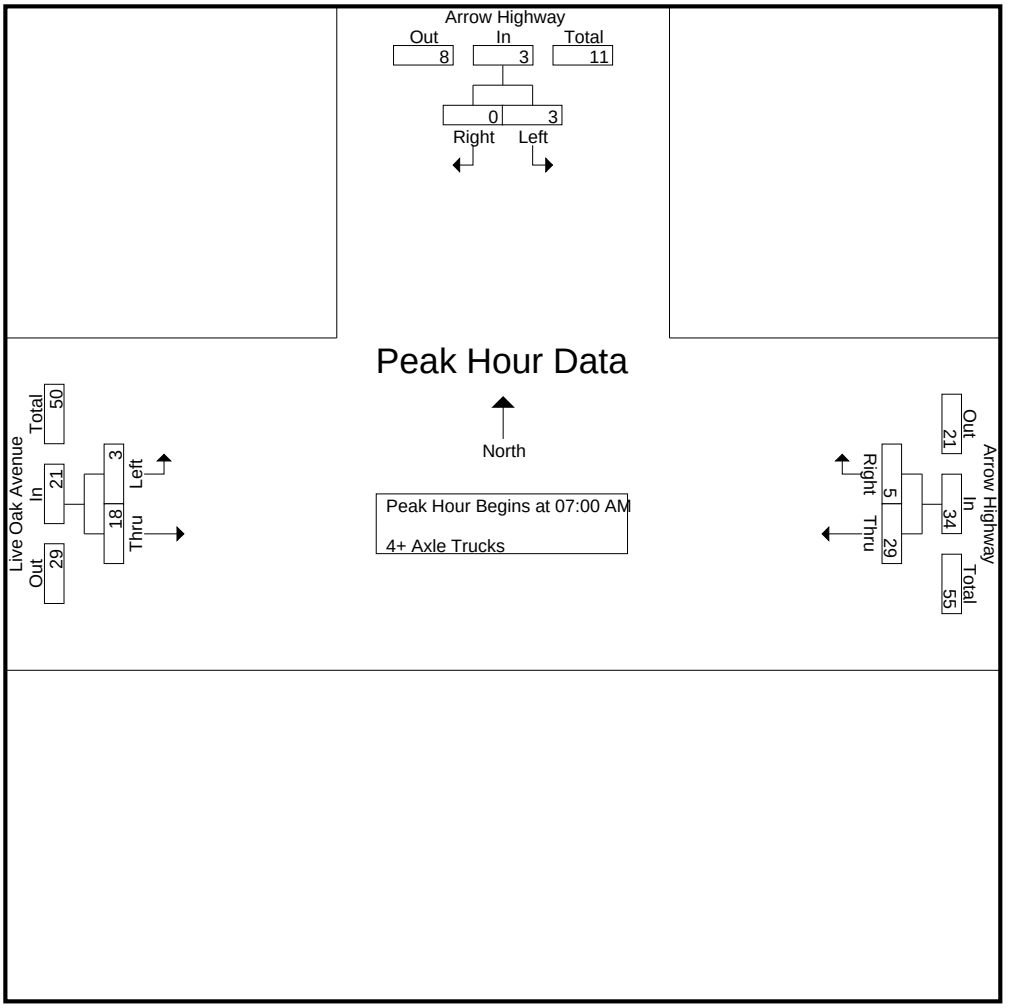

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	**2**	0	**2**	**9**	0	9	1	6	7
+15 mins.	1	0	1	9	1	**10**	0	2	2
+30 mins.	0	0	0	7	1	8	0	3	3
+45 mins.	0	0	0	4	**3**	7	**2**	**7**	**9**
Total Volume	3	0	3	29	5	34	3	18	21
% App. Total	100	0		85.3	14.7		14.3	85.7	
PHF	.375	.000	.375	.806	.417	.850	.375	.643	.583

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City of Irwindale
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E/W: Live Oak Avenue/Arrow Highway
Weather: Clear

File Name : 07_IRW_Arrow_Live Oak PM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	244	27	271	169	108	277	15	361	376	924
04:15 PM	243	27	270	220	100	320	16	357	373	963
04:30 PM	238	33	271	203	114	317	12	403	415	1003
04:45 PM	230	31	261	183	93	276	10	405	415	952
Total	955	118	1073	775	415	1190	53	1526	1579	3842
05:00 PM	261	28	289	222	108	330	8	388	396	1015
05:15 PM	289	35	324	188	96	284	9	381	390	998
05:30 PM	285	41	326	177	127	304	14	416	430	1060
05:45 PM	259	29	288	178	106	284	19	372	391	963
Total	1094	133	1227	765	437	1202	50	1557	1607	4036
Grand Total	2049	251	2300	1540	852	2392	103	3083	3186	7878
Apprch %	89.1	10.9		64.4	35.6		3.2	96.8		
Total %	26	3.2	29.2	19.5	10.8	30.4	1.3	39.1	40.4	
Passenger Vehicles	1998	244	2242	1455	819	2274	99	2947	3046	7562
% Passenger Vehicles	97.5	97.2	97.5	94.5	96.1	95.1	96.1	95.6	95.6	96
Large 2 Axle Vehicles	34	6	40	43	14	57	2	89	91	188
% Large 2 Axle Vehicles	1.7	2.4	1.7	2.8	1.6	2.4	1.9	2.9	2.9	2.4
3 Axle Vehicles	8	0	8	17	15	32	0	15	15	55
% 3 Axle Vehicles	0.4	0	0.3	1.1	1.8	1.3	0	0.5	0.5	0.7
4+ Axle Trucks	9	1	10	25	4	29	2	32	34	73
% 4+ Axle Trucks	0.4	0.4	0.4	1.6	0.5	1.2	1.9	1	1.1	0.9

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	261	28	289	**222**	108	**330**	8	388	396	1015
05:15 PM	**289**	35	324	188	96	284	9	381	390	998
05:30 PM	285	**41**	**326**	177	**127**	304	14	**416**	**430**	**1060**
05:45 PM	259	29	288	178	106	284	**19**	372	391	963
Total Volume	1094	133	1227	765	437	1202	50	1557	1607	4036
% App. Total	89.2	10.8		63.6	36.4		3.1	96.9		
PHF	.946	.811	.941	.861	.860	.911	.658	.936	.934	.952

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City of Irwindale
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Weather: Clear

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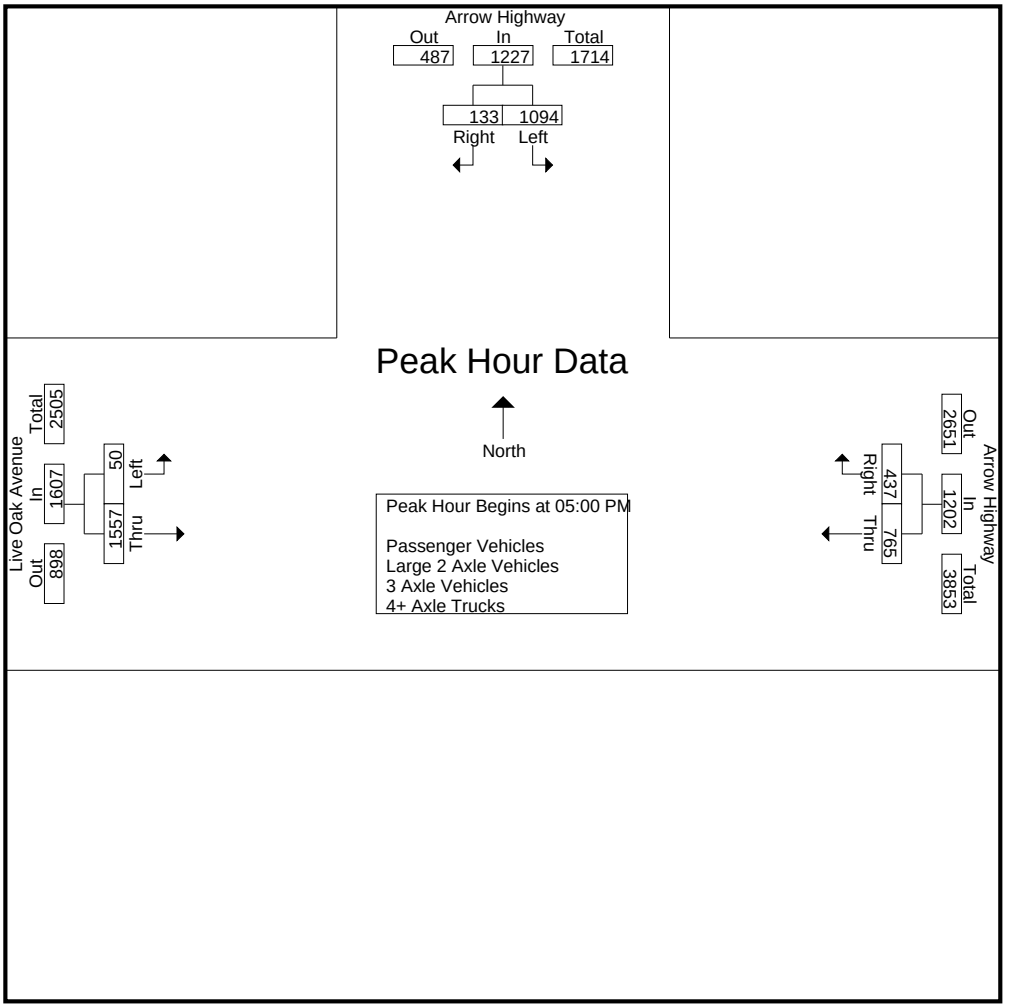

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			04:15 PM			04:45 PM		
+0 mins.	261	28	289	220	100	320	10	405	415
+15 mins.	**289**	35	324	203	**114**	317	8	388	396
+30 mins.	285	**41**	**326**	183	93	276	9	381	390
+45 mins.	259	29	288	**222**	108	**330**	**14**	**416**	**430**
Total Volume	1094	133	1227	828	415	1243	41	1590	1631
% App. Total	89.2	10.8		66.6	33.4		2.5	97.5	
PHF	.946	.811	.941	.932	.910	.942	.732	.956	.948

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City of Irwindale
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Groups Printed- Passenger Vehicles

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	235	27	262	156	101	257	15	340	355	874
04:15 PM	236	26	262	207	98	305	16	332	348	915
04:30 PM	231	31	262	191	107	298	11	386	397	957
04:45 PM	221	30	251	166	86	252	9	385	394	897
Total	923	114	1037	720	392	1112	51	1443	1494	3643
05:00 PM	255	27	282	213	104	317	7	377	384	983
05:15 PM	281	34	315	178	94	272	9	368	377	964
05:30 PM	283	41	324	172	126	298	14	406	420	1042
05:45 PM	256	28	284	172	103	275	18	353	371	930
Total	1075	130	1205	735	427	1162	48	1504	1552	3919
Grand Total	1998	244	2242	1455	819	2274	99	2947	3046	7562
Apprch %	89.1	10.9		64	36		3.3	96.7		
Total %	26.4	3.2	29.6	19.2	10.8	30.1	1.3	39	40.3	

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	255	27	282	**213**	104	**317**	7	377	384	983
05:15 PM	281	34	315	178	94	272	9	368	377	964
05:30 PM	**283**	**41**	**324**	172	**126**	298	14	**406**	**420**	**1042**
05:45 PM	256	28	284	172	103	275	**18**	353	371	930
Total Volume	1075	130	1205	735	427	1162	48	1504	1552	3919
% App. Total	89.2	10.8		63.3	36.7		3.1	96.9		
PHF	.950	.793	.930	.863	.847	.916	.667	.926	.924	.940

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City of Irwindale
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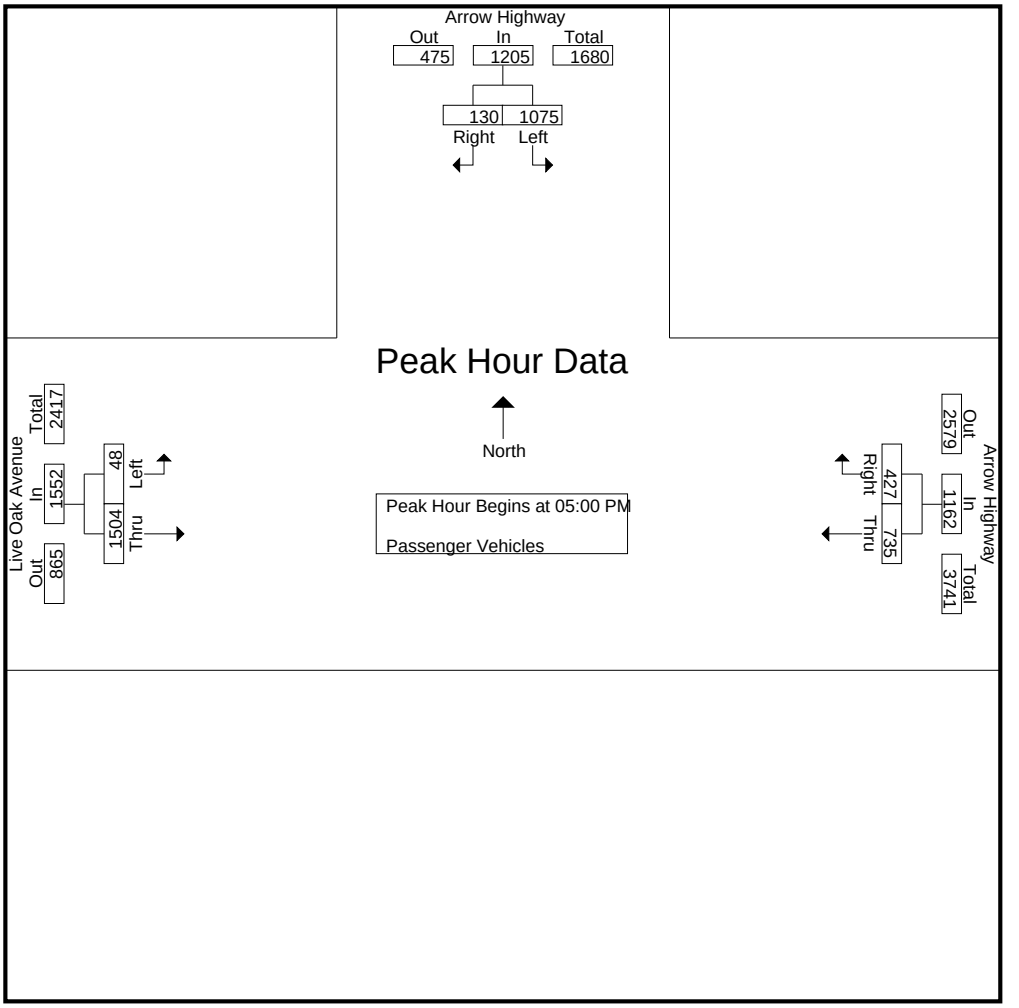

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	255	27	282	**213**	104	**317**	7	377	384
+15 mins.	281	34	315	178	94	272	9	368	377
+30 mins.	**283**	**41**	**324**	172	**126**	298	14	**406**	**420**
+45 mins.	256	28	284	172	103	275	**18**	353	371
Total Volume	1075	130	1205	735	427	1162	48	1504	1552
% App. Total	89.2	10.8		63.3	36.7		3.1	96.9	
PHF	.950	.793	.930	.863	.847	.916	.667	.926	.924

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Groups Printed- Large 2 Axle Vehicles

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	4	0	4	8	4	12	0	14	14	30
04:15 PM	5	1	6	3	1	4	0	17	17	27
04:30 PM	4	2	6	7	5	12	0	13	13	31
04:45 PM	7	1	8	9	1	10	1	14	15	33
Total	20	4	24	27	11	38	1	58	59	121
05:00 PM	4	1	5	5	1	6	0	7	7	18
05:15 PM	7	1	8	3	1	4	0	9	9	21
05:30 PM	1	0	1	3	0	3	0	8	8	12
05:45 PM	2	0	2	5	1	6	1	7	8	16
Total	14	2	16	16	3	19	1	31	32	67
Grand Total	34	6	40	43	14	57	2	89	91	188
Apprch %	85	15		75.4	24.6		2.2	97.8		
Total %	18.1	3.2	21.3	22.9	7.4	30.3	1.1	47.3	48.4	

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	4	**1**	5	**5**	**1**	**6**	0	7	7	18
05:15 PM	**7**	1	**8**	3	1	4	0	**9**	**9**	**21**
05:30 PM	1	0	1	3	0	3	0	8	8	12
05:45 PM	2	0	2	5	1	6	**1**	7	8	16
Total Volume	14	2	16	16	3	19	1	31	32	67
% App. Total	87.5	12.5		84.2	15.8		3.1	96.9		
PHF	.500	.500	.500	.800	.750	.792	.250	.861	.889	.798

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City of Irwindale
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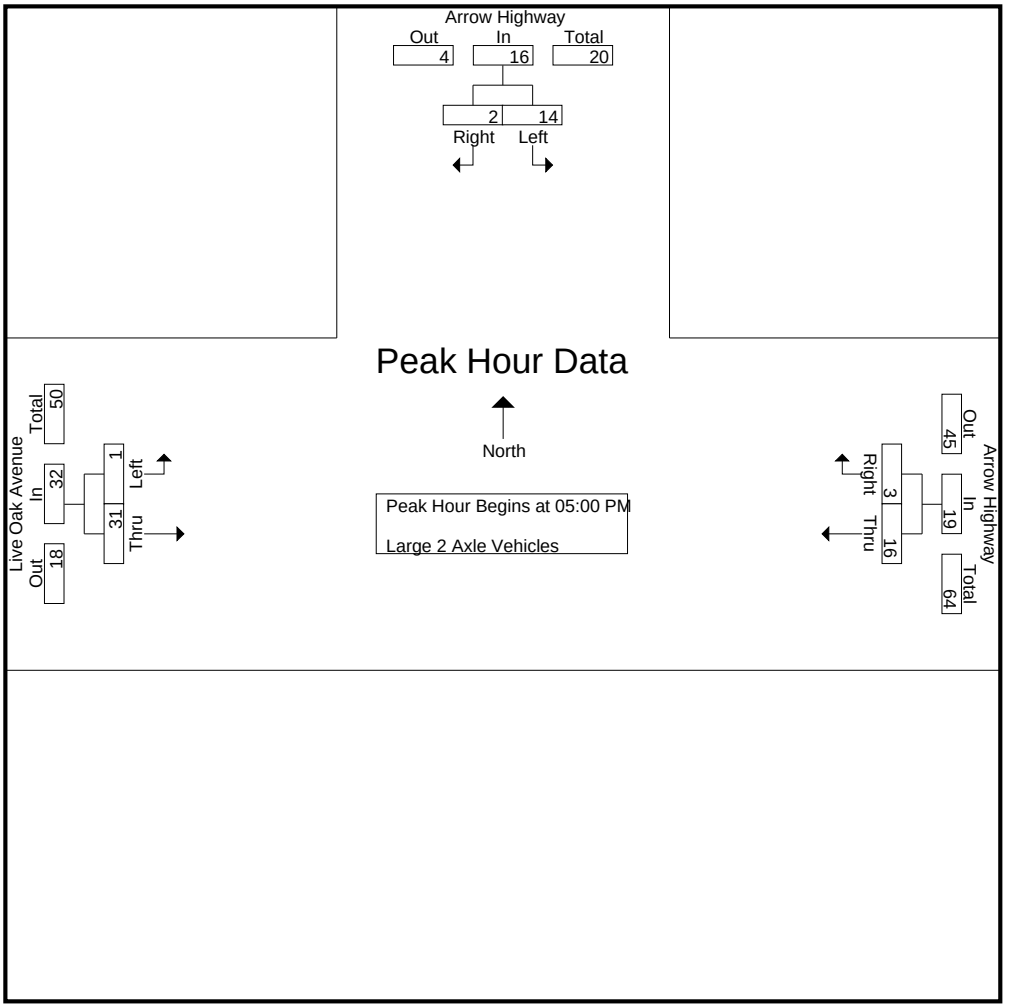

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	4	**1**	5	**5**	**1**	**6**	0	7	7
+15 mins.	**7**	1	**8**	3	1	4	0	**9**	**9**
+30 mins.	1	0	1	3	0	3	0	8	8
+45 mins.	2	0	2	5	1	6	**1**	7	8
Total Volume	14	2	16	16	3	19	1	31	32
% App. Total	87.5	12.5		84.2	15.8		3.1	96.9	
PHF	.500	.500	.500	.800	.750	.792	.250	.861	.889

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City of Irwindale
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Weather: Clear

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Groups Printed- 3 Axle Vehicles

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	1	0	1	0	2	2	0	3	3	6
04:15 PM	1	0	1	5	1	6	0	2	2	9
04:30 PM	2	0	2	3	2	5	0	2	2	9
04:45 PM	1	0	1	4	6	10	0	3	3	14
Total	5	0	5	12	11	23	0	10	10	38
05:00 PM	1	0	1	1	3	4	0	2	2	7
05:15 PM	0	0	0	3	0	3	0	1	1	4
05:30 PM	1	0	1	1	1	2	0	1	1	4
05:45 PM	1	0	1	0	0	0	0	1	1	2
Total	3	0	3	5	4	9	0	5	5	17
Grand Total	8	0	8	17	15	32	0	15	15	55
Apprch %	100	0		53.1	46.9		0	100		
Total %	14.5	0	14.5	30.9	27.3	58.2	0	27.3	27.3	

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	**1**	0	**1**	1	**3**	**4**	0	**2**	**2**	**7**
05:15 PM	0	0	0	**3**	0	3	0	1	1	4
05:30 PM	1	0	1	1	1	2	0	1	1	4
05:45 PM	1	0	1	0	0	0	0	1	1	2
Total Volume	3	0	3	5	4	9	0	5	5	17
% App. Total	100	0		55.6	44.4		0	100		
PHF	.750	.000	.750	.417	.333	.563	.000	.625	.625	.607

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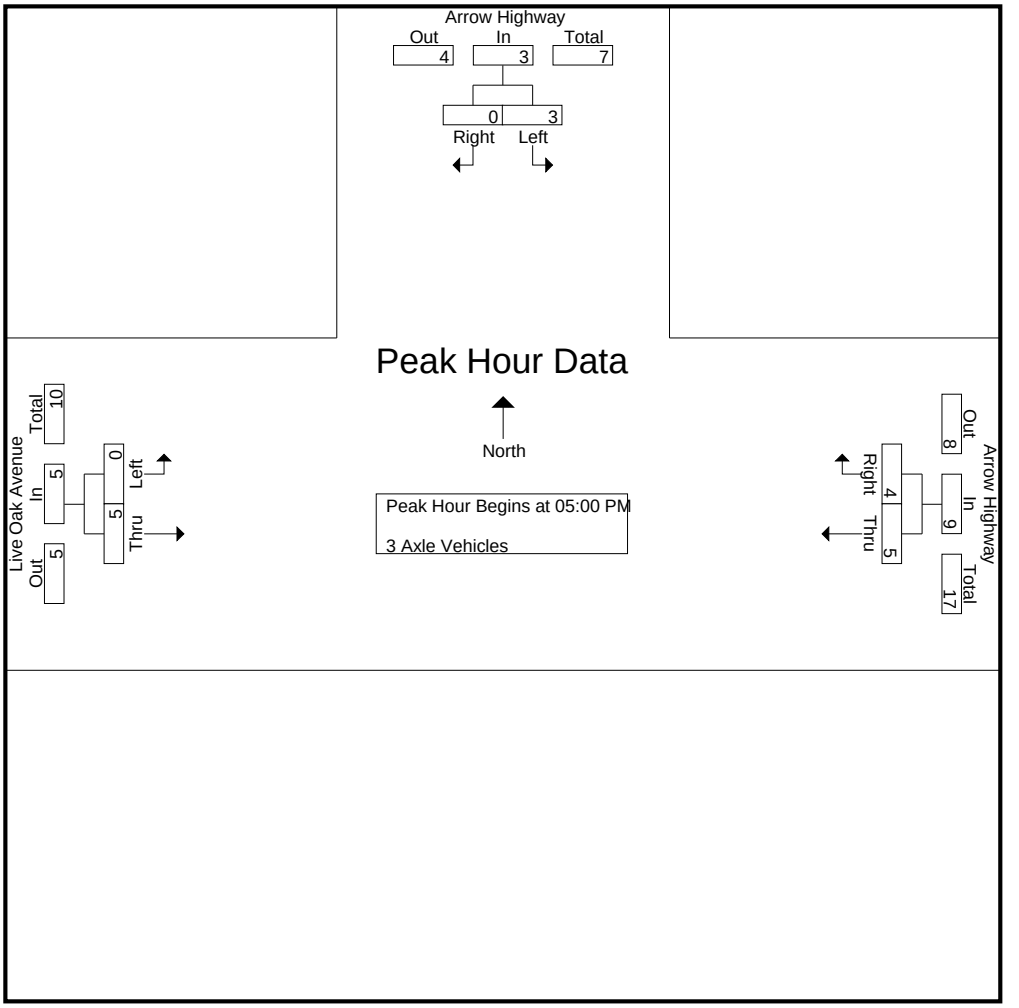

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	**1**	0	**1**	1	**3**	**4**	0	**2**	**2**
+15 mins.	0	0	0	**3**	0	3	0	1	1
+30 mins.	1	0	1	1	1	2	0	1	1
+45 mins.	1	0	1	0	0	0	0	1	1
Total Volume	3	0	3	5	4	9	0	5	5
% App. Total	100	0		55.6	44.4		0	100	
PHF	.750	.000	.750	.417	.333	.563	.000	.625	.625

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Weather: Clear

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Groups Printed- 4+ Axle Trucks

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	4	0	4	5	1	6	0	4	4	14
04:15 PM	1	0	1	5	0	5	0	6	6	12
04:30 PM	1	0	1	2	0	2	1	2	3	6
04:45 PM	1	0	1	4	0	4	0	3	3	8
Total	7	0	7	16	1	17	1	15	16	40
05:00 PM	1	0	1	3	0	3	1	2	3	7
05:15 PM	1	0	1	4	1	5	0	3	3	9
05:30 PM	0	0	0	1	0	1	0	1	1	2
05:45 PM	0	1	1	1	2	3	0	11	11	15
Total	2	1	3	9	3	12	1	17	18	33
Grand Total	9	1	10	25	4	29	2	32	34	73
Apprch %	90	10		86.2	13.8		5.9	94.1		
Total %	12.3	1.4	13.7	34.2	5.5	39.7	2.7	43.8	46.6	

	Arrow Highway Southbound			Arrow Highway Westbound			Live Oak Avenue Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	**1**	0	**1**	3	0	3	**1**	2	3	7
05:15 PM	1	0	1	**4**	1	**5**	0	3	3	9
05:30 PM	0	0	0	1	0	1	0	1	1	2
05:45 PM	0	**1**	1	1	**2**	3	0	**11**	**11**	**15**
Total Volume	2	1	3	9	3	12	1	17	18	33
% App. Total	66.7	33.3		75	25		5.6	94.4		
PHF	.500	.250	.750	.563	.375	.600	.250	.386	.409	.550

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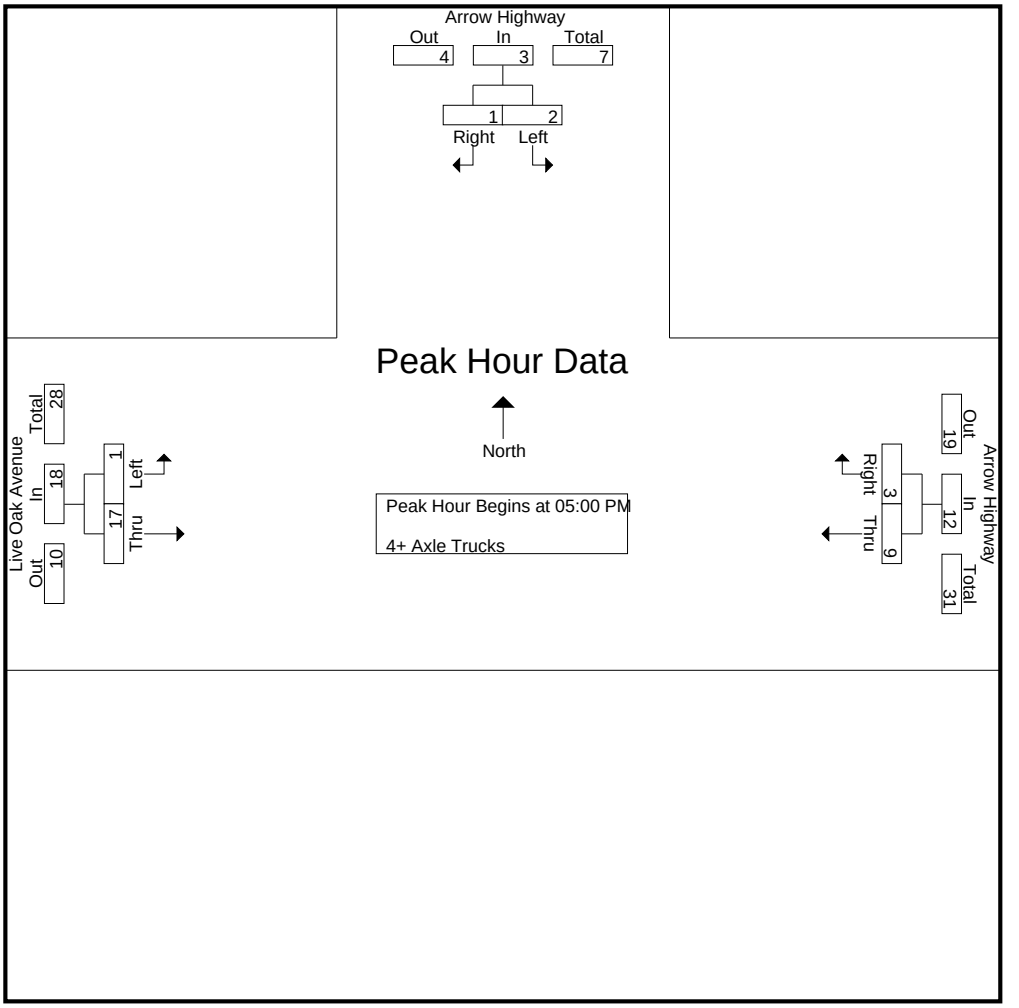

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	**1**	0	**1**	3	0	3	**1**	2	3
+15 mins.	1	0	1	**4**	1	**5**	0	3	3
+30 mins.	0	0	0	1	0	1	0	1	1
+45 mins.	0	**1**	1	1	**2**	3	0	**11**	**11**
Total Volume	2	1	3	9	3	12	1	17	18
% App. Total	66.7	33.3		75	25		5.6	94.4	
PHF	.500	.250	.750	.563	.375	.600	.250	.386	.409

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City of Irwindale
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E/W: Arrow Highway
Weather: Clear

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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	13	668	681	130	11	141	158	15	173	995
07:15 AM	8	590	598	108	13	121	147	23	170	889
07:30 AM	22	526	548	107	18	125	212	39	251	924
07:45 AM	23	477	500	87	19	106	288	39	327	933
Total	66	2261	2327	432	61	493	805	116	921	3741
08:00 AM	14	423	437	76	25	101	252	34	286	824
08:15 AM	17	411	428	80	18	98	223	33	256	782
08:30 AM	16	322	338	80	13	93	243	44	287	718
08:45 AM	15	311	326	67	14	81	239	39	278	685
Total	62	1467	1529	303	70	373	957	150	1107	3009
Grand Total	128	3728	3856	735	131	866	1762	266	2028	6750
Apprch %	3.3	96.7		84.9	15.1		86.9	13.1		
Total %	1.9	55.2	57.1	10.9	1.9	12.8	26.1	3.9	30	
Passenger Vehicles	122	3501	3623	682	115	797	1574	252	1826	6246
% Passenger Vehicles	95.3	93.9	94	92.8	87.8	92	89.3	94.7	90	92.5
Large 2 Axle Vehicles	2	128	130	33	8	41	101	7	108	279
% Large 2 Axle Vehicles	1.6	3.4	3.4	4.5	6.1	4.7	5.7	2.6	5.3	4.1
3 Axle Vehicles	2	40	42	10	7	17	25	3	28	87
% 3 Axle Vehicles	1.6	1.1	1.1	1.4	5.3	2	1.4	1.1	1.4	1.3
4+ Axle Trucks	2	59	61	10	1	11	62	4	66	138
% 4+ Axle Trucks	1.6	1.6	1.6	1.4	0.8	1.3	3.5	1.5	3.3	2

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	13	**668**	**681**	**130**	11	**141**	158	15	173	**995**
07:15 AM	8	590	598	108	13	121	147	23	170	889
07:30 AM	22	526	548	107	18	125	212	**39**	251	924
07:45 AM	**23**	477	500	87	**19**	106	**288**	39	**327**	933
Total Volume	66	2261	2327	432	61	493	805	116	921	3741
% App. Total	2.8	97.2		87.6	12.4		87.4	12.6		
PHF	.717	.846	.854	.831	.803	.874	.699	.744	.704	.940

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City of Irwindale
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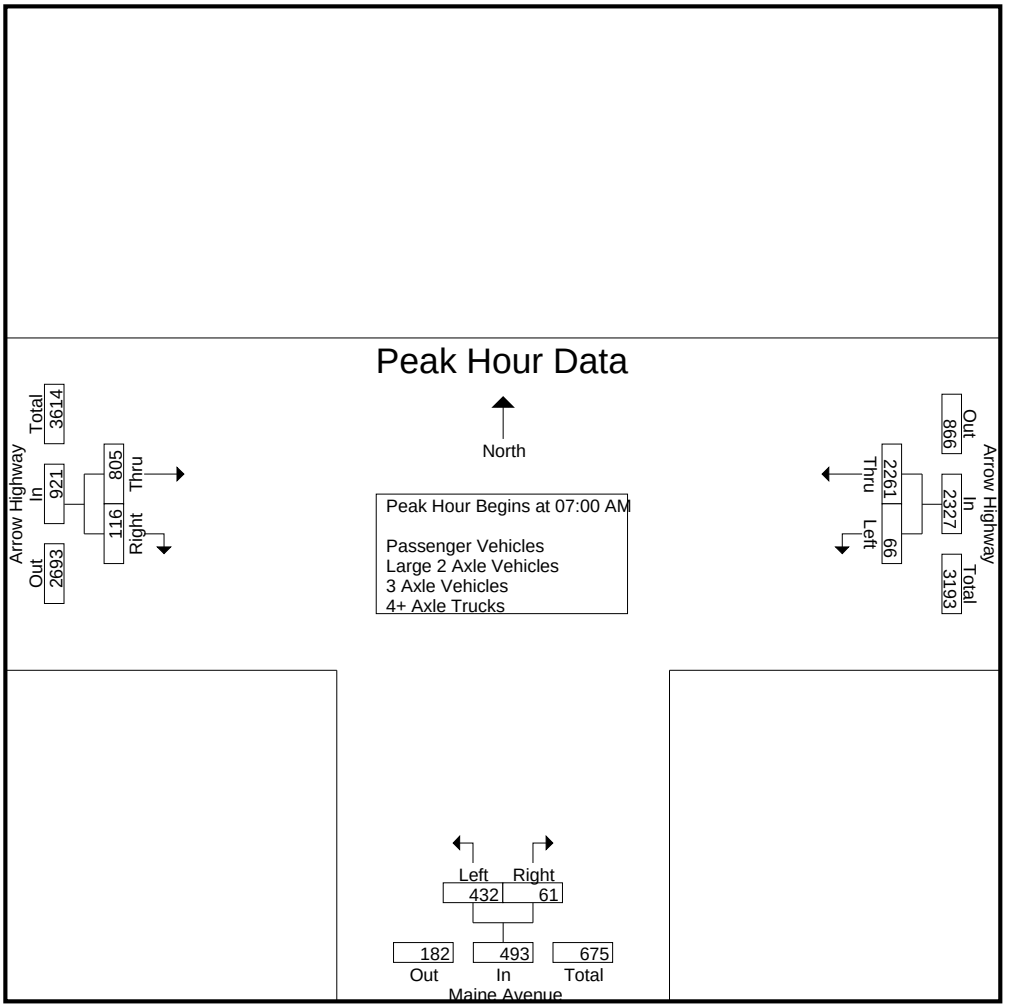

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:45 AM		
+0 mins.	13	**668**	**681**	**130**	11	**141**	**288**	39	**327**
+15 mins.	8	590	598	108	13	121	252	34	286
+30 mins.	22	526	548	107	18	125	223	33	256
+45 mins.	**23**	477	500	87	**19**	106	243	**44**	287
Total Volume	66	2261	2327	432	61	493	1006	150	1156
% App. Total	2.8	97.2		87.6	12.4		87	13	
PHF	.717	.846	.854	.831	.803	.874	.873	.852	.884

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Groups Printed- Passenger Vehicles

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	12	635	647	116	8	124	142	14	156	927
07:15 AM	8	556	564	103	13	116	136	23	159	839
07:30 AM	22	498	520	103	18	121	193	37	230	871
07:45 AM	22	454	476	77	16	93	255	36	291	860
Total	64	2143	2207	399	55	454	726	110	836	3497
08:00 AM	13	395	408	71	24	95	227	31	258	761
08:15 AM	16	383	399	77	17	94	198	32	230	723
08:30 AM	15	296	311	72	9	81	214	43	257	649
08:45 AM	14	284	298	63	10	73	209	36	245	616
Total	58	1358	1416	283	60	343	848	142	990	2749
Grand Total	122	3501	3623	682	115	797	1574	252	1826	6246
Apprch %	3.4	96.6		85.6	14.4		86.2	13.8		
Total %	2	56.1	58	10.9	1.8	12.8	25.2	4	29.2	

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	12	**635**	**647**	**116**	8	**124**	142	14	156	**927**
07:15 AM	8	556	564	103	13	116	136	23	159	839
07:30 AM	**22**	498	520	103	**18**	121	193	**37**	230	871
07:45 AM	22	454	476	77	16	93	**255**	36	**291**	860
Total Volume	64	2143	2207	399	55	454	726	110	836	3497
% App. Total	2.9	97.1		87.9	12.1		86.8	13.2		
PHF	.727	.844	.853	.860	.764	.915	.712	.743	.718	.943

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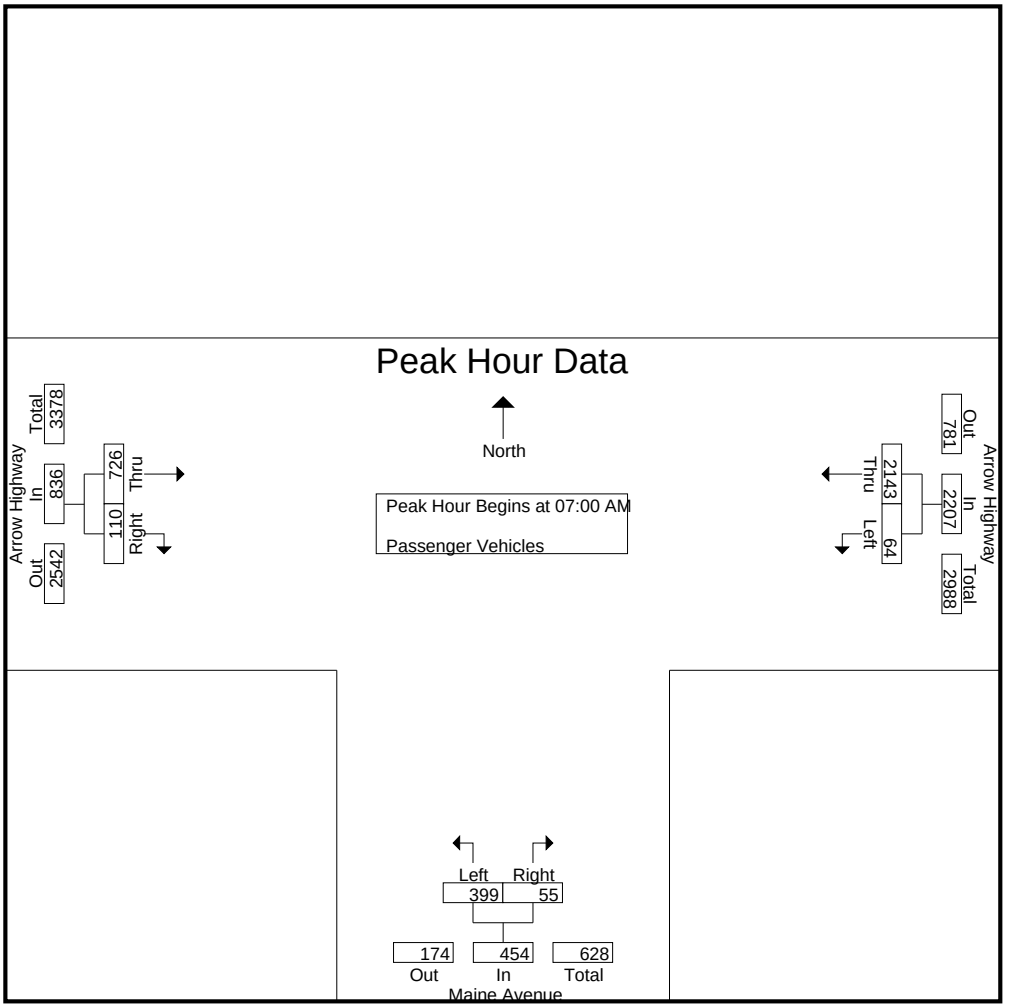
City of Irwindale
N/S: Maine Avenue
E/W: Arrow Highway
Weather: Clear

File Name : 08_IRW_Maine_Arrow AM
Site Code : 22518834
Start Date : 11/1/2018



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	12	**635**	**647**	**116**	8	**124**	142	14	156
+15 mins.	8	556	564	103	13	116	136	23	159
+30 mins.	**22**	498	520	103	**18**	121	193	**37**	230
+45 mins.	22	454	476	77	16	93	**255**	36	**291**
Total Volume	64	2143	2207	399	55	454	726	110	836
% App. Total	2.9	97.1		87.9	12.1		86.8	13.2	
PHF	.727	.844	.853	.860	.764	.915	.712	.743	.718

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City of Irwindale
N/S: Maine Avenue
E/W: Arrow Highway
Weather: Clear

File Name : 08_IRW_Maine_Arrow AM
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Groups Printed- Large 2 Axle Vehicles

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	16	16	10	2	12	8	0	8	36
07:15 AM	0	21	21	1	0	1	7	0	7	29
07:30 AM	0	17	17	2	0	2	11	1	12	31
07:45 AM	0	17	17	5	2	7	19	2	21	45
Total	0	71	71	18	4	22	45	3	48	141
08:00 AM	1	17	18	4	0	4	19	1	20	42
08:15 AM	0	13	13	3	1	4	16	0	16	33
08:30 AM	0	15	15	5	3	8	11	1	12	35
08:45 AM	1	12	13	3	0	3	10	2	12	28
Total	2	57	59	15	4	19	56	4	60	138
Grand Total	2	128	130	33	8	41	101	7	108	279
Apprch %	1.5	98.5		80.5	19.5		93.5	6.5		
Total %	0.7	45.9	46.6	11.8	2.9	14.7	36.2	2.5	38.7	

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	0	16	16	**10**	**2**	**12**	8	0	8	36
07:15 AM	0	**21**	**21**	1	0	1	7	0	7	29
07:30 AM	0	17	17	2	0	2	11	1	12	31
07:45 AM	0	17	17	5	2	7	**19**	**2**	**21**	**45**
Total Volume	0	71	71	18	4	22	45	3	48	141
% App. Total	0	100		81.8	18.2		93.8	6.2		
PHF	.000	.845	.845	.450	.500	.458	.592	.375	.571	.783

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City of Irwindale
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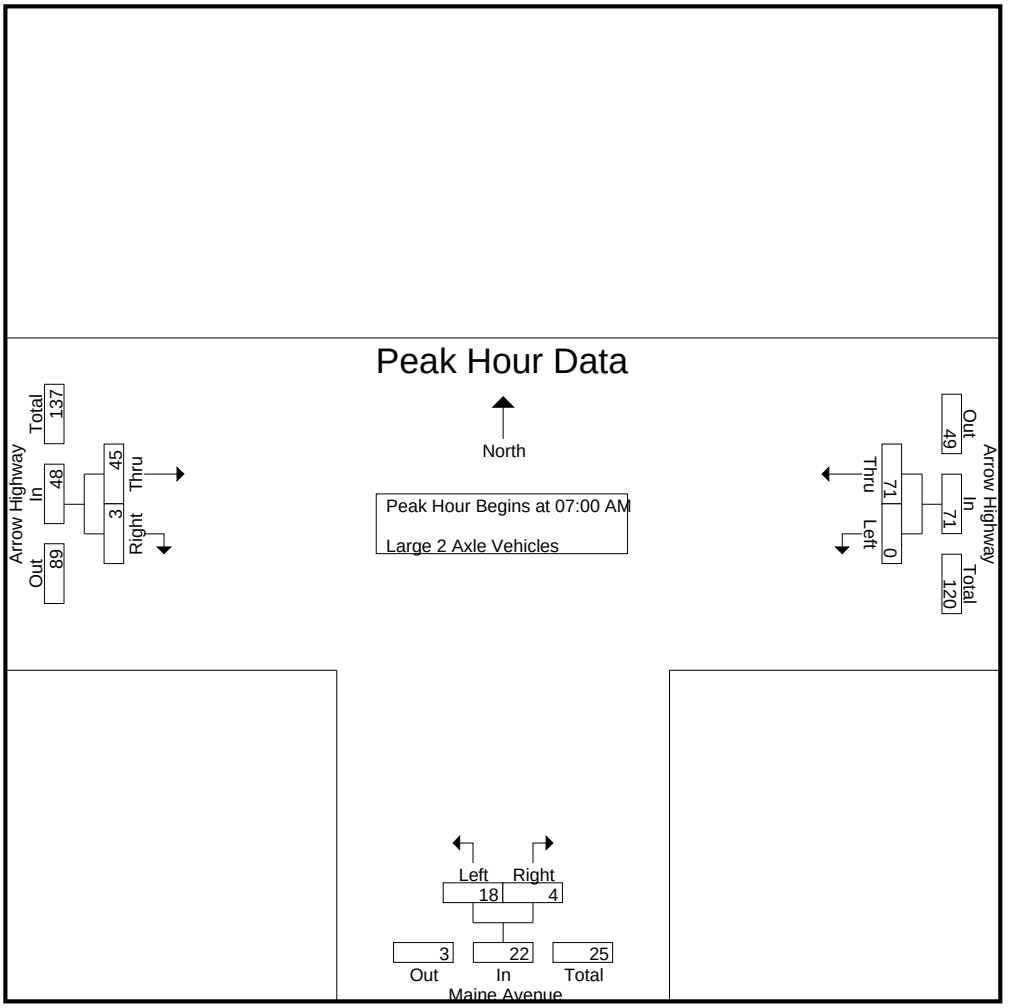
E/W: Arrow Highway
Weather: Clear

File Name : 08_IRW_Maine_Arrow AM
Site Code : 22518834
Start Date : 11/1/2018



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	16	16	**10**	**2**	**12**	8	0	8
+15 mins.	0	**21**	**21**	1	0	1	7	0	7
+30 mins.	0	17	17	2	0	2	11	1	12
+45 mins.	0	17	17	5	2	7	**19**	**2**	**21**
Total Volume	0	71	71	18	4	22	45	3	48
% App. Total	0	100		81.8	18.2		93.8	6.2	
PHF	.000	.845	.845	.450	.500	.458	.592	.375	.571

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City of Irwindale
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Weather: Clear

File Name : 08_IRW_Maine_Arrow AM
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Groups Printed- 3 Axle Vehicles

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	6	6	2	0	2	2	0	2	10
07:15 AM	0	5	5	3	0	3	1	0	1	9
07:30 AM	0	4	4	1	0	1	5	0	5	10
07:45 AM	0	2	2	2	1	3	5	1	6	11
Total	0	17	17	8	1	9	13	1	14	40
08:00 AM	0	6	6	0	1	1	0	2	2	9
08:15 AM	1	7	8	0	0	0	4	0	4	12
08:30 AM	1	6	7	1	1	2	4	0	4	13
08:45 AM	0	4	4	1	4	5	4	0	4	13
Total	2	23	25	2	6	8	12	2	14	47
Grand Total	2	40	42	10	7	17	25	3	28	87
Apprch %	4.8	95.2		58.8	41.2		89.3	10.7		
Total %	2.3	46	48.3	11.5	8	19.5	28.7	3.4	32.2	

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	0	**6**	**6**	2	0	2	2	0	2	10
07:15 AM	0	5	5	**3**	0	**3**	1	0	1	9
07:30 AM	0	4	4	1	0	1	**5**	0	5	10
07:45 AM	0	2	2	2	**1**	3	5	**1**	**6**	**11**
Total Volume	0	17	17	8	1	9	13	1	14	40
% App. Total	0	100		88.9	11.1		92.9	7.1		
PHF	.000	.708	.708	.667	.250	.750	.650	.250	.583	.909

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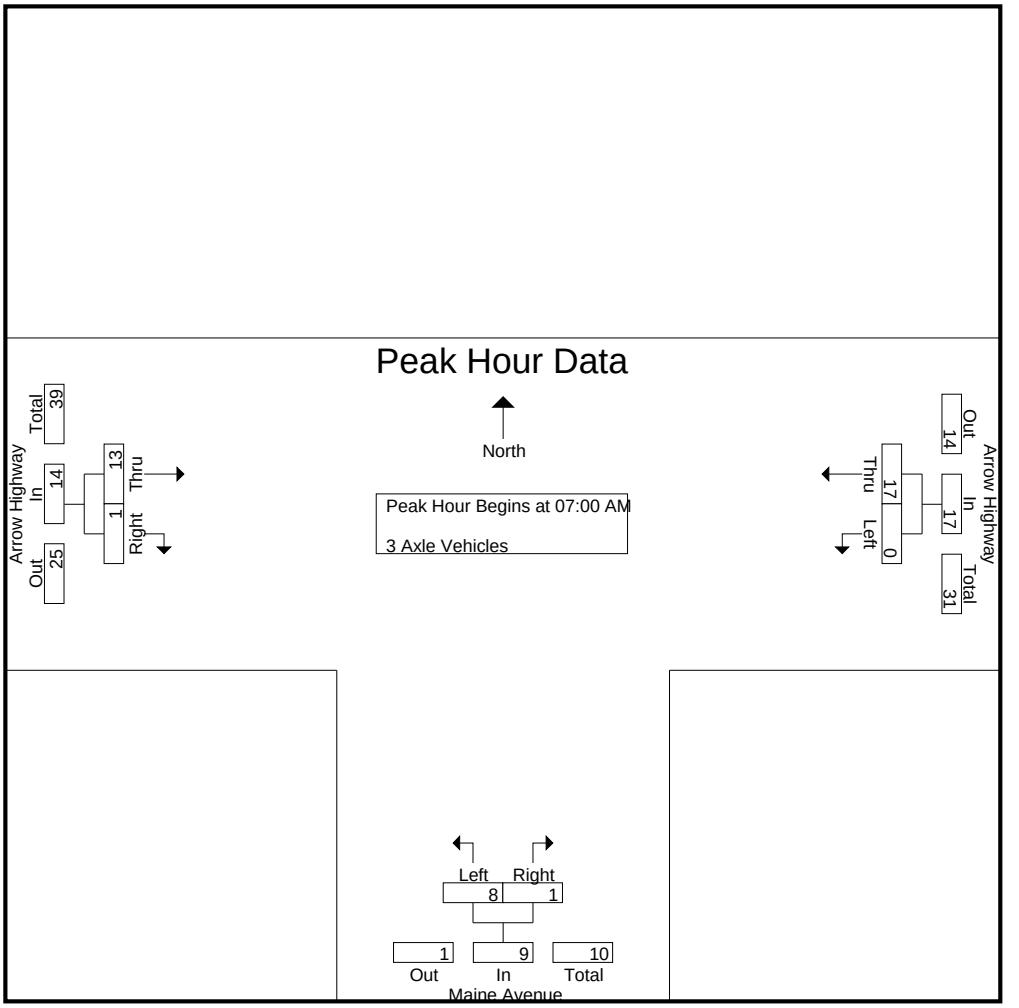

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	**6**	**6**	2	0	2	2	0	2
+15 mins.	0	5	5	**3**	0	**3**	1	0	1
+30 mins.	0	4	4	1	0	1	**5**	0	5
+45 mins.	0	2	2	2	**1**	3	5	**1**	**6**
Total Volume	0	17	17	8	1	9	13	1	14
% App. Total	0	100		88.9	11.1		92.9	7.1	
PHF	.000	.708	.708	.667	.250	.750	.650	.250	.583

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City of Irwindale
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E/W: Arrow Highway
Weather: Clear

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Site Code : 22518834
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Groups Printed- 4+ Axle Trucks

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	1	11	12	2	1	3	6	1	7	22
07:15 AM	0	8	8	1	0	1	3	0	3	12
07:30 AM	0	7	7	1	0	1	3	1	4	12
07:45 AM	1	4	5	3	0	3	9	0	9	17
Total	2	30	32	7	1	8	21	2	23	63
08:00 AM	0	5	5	1	0	1	6	0	6	12
08:15 AM	0	8	8	0	0	0	5	1	6	14
08:30 AM	0	5	5	2	0	2	14	0	14	21
08:45 AM	0	11	11	0	0	0	16	1	17	28
Total	0	29	29	3	0	3	41	2	43	75
Grand Total	2	59	61	10	1	11	62	4	66	138
Apprch %	3.3	96.7		90.9	9.1		93.9	6.1		
Total %	1.4	42.8	44.2	7.2	0.7	8	44.9	2.9	47.8	

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	**1**	**11**	**12**	2	**1**	**3**	6	**1**	7	**22**
07:15 AM	0	8	8	1	0	1	3	0	3	12
07:30 AM	0	7	7	1	0	1	3	1	4	12
07:45 AM	1	4	5	**3**	0	3	**9**	0	**9**	17
Total Volume	2	30	32	7	1	8	21	2	23	63
% App. Total	6.2	93.8		87.5	12.5		91.3	8.7		
PHF	.500	.682	.667	.583	.250	.667	.583	.500	.639	.716

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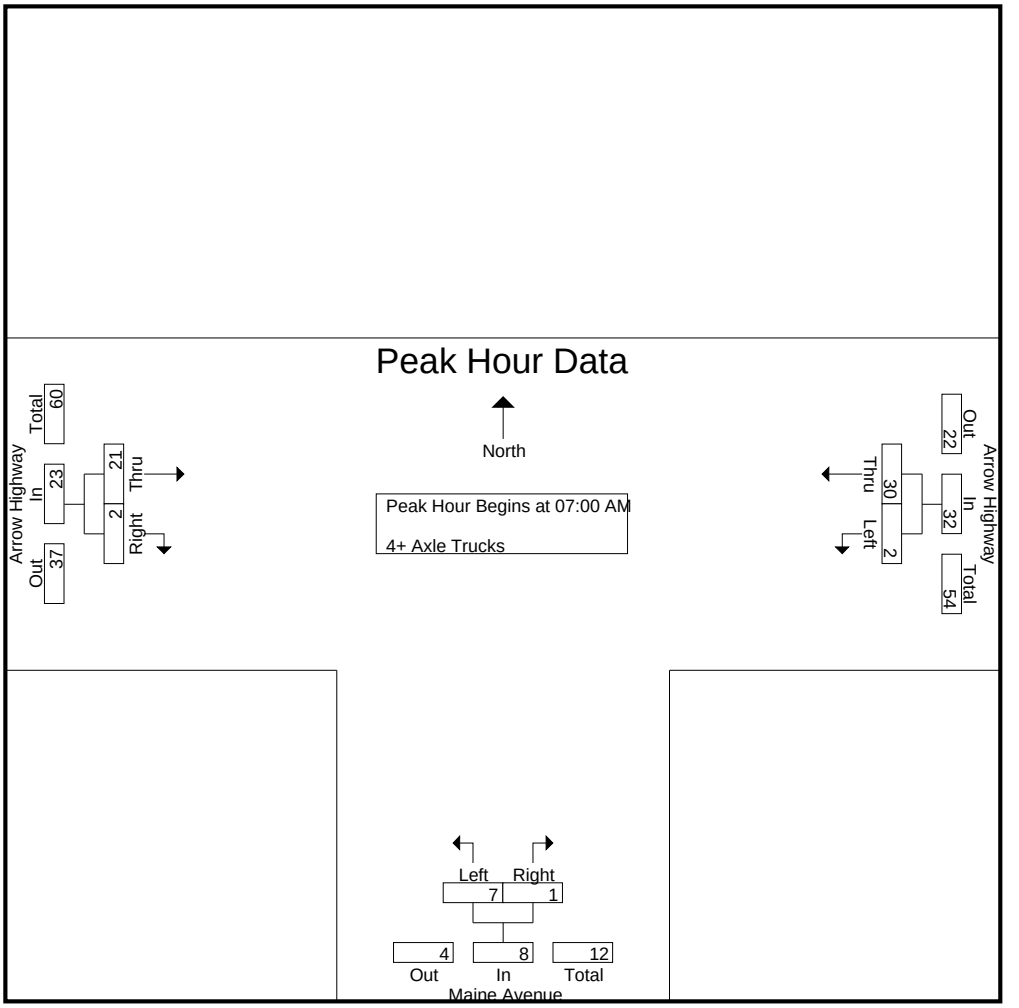
Site Code : 22518834
Start Date : 11/1/2018



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	**1**	**11**	**12**	2	**1**	**3**	6	**1**	7
+15 mins.	0	8	8	1	0	1	3	0	3
+30 mins.	0	7	7	1	0	1	3	1	4
+45 mins.	1	4	5	**3**	0	3	**9**	0	**9**
Total Volume	2	30	32	7	1	8	21	2	23
% App. Total	6.2	93.8		87.5	12.5		91.3	8.7	
PHF	.500	.682	.667	.583	.250	.667	.583	.500	.639

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City of Irwindale
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Site Code : 22518834
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	15	218	233	62	14	76	534	70	604	913
04:15 PM	15	245	260	72	21	93	532	62	594	947
04:30 PM	17	241	258	77	20	97	577	68	645	1000
04:45 PM	12	244	256	42	17	59	567	72	639	954
Total	59	948	1007	253	72	325	2210	272	2482	3814
05:00 PM	16	274	290	63	15	78	555	82	637	1005
05:15 PM	13	229	242	53	25	78	602	74	676	996
05:30 PM	21	241	262	57	22	79	610	91	701	1042
05:45 PM	22	237	259	45	17	62	557	91	648	969
Total	72	981	1053	218	79	297	2324	338	2662	4012
Grand Total	131	1929	2060	471	151	622	4534	610	5144	7826
Apprch %	6.4	93.6		75.7	24.3		88.1	11.9		
Total %	1.7	24.6	26.3	6	1.9	7.9	57.9	7.8	65.7	
Passenger Vehicles	130	1821	1951	451	149	600	4333	597	4930	7481
% Passenger Vehicles	99.2	94.4	94.7	95.8	98.7	96.5	95.6	97.9	95.8	95.6
Large 2 Axle Vehicles	1	53	54	13	1	14	139	10	149	217
% Large 2 Axle Vehicles	0.8	2.7	2.6	2.8	0.7	2.3	3.1	1.6	2.9	2.8
3 Axle Vehicles	0	31	31	2	0	2	19	2	21	54
% 3 Axle Vehicles	0	1.6	1.5	0.4	0	0.3	0.4	0.3	0.4	0.7
4+ Axle Trucks	0	24	24	5	1	6	43	1	44	74
% 4+ Axle Trucks	0	1.2	1.2	1.1	0.7	1	0.9	0.2	0.9	0.9

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	16	**274**	**290**	**63**	15	78	555	82	637	1005
05:15 PM	13	229	242	53	**25**	78	602	74	676	996
05:30 PM	21	241	262	57	22	**79**	**610**	**91**	**701**	**1042**
05:45 PM	**22**	237	259	45	17	62	557	91	648	969
Total Volume	72	981	1053	218	79	297	2324	338	2662	4012
% App. Total	6.8	93.2		73.4	26.6		87.3	12.7		
PHF	.818	.895	.908	.865	.790	.940	.952	.929	.949	.963

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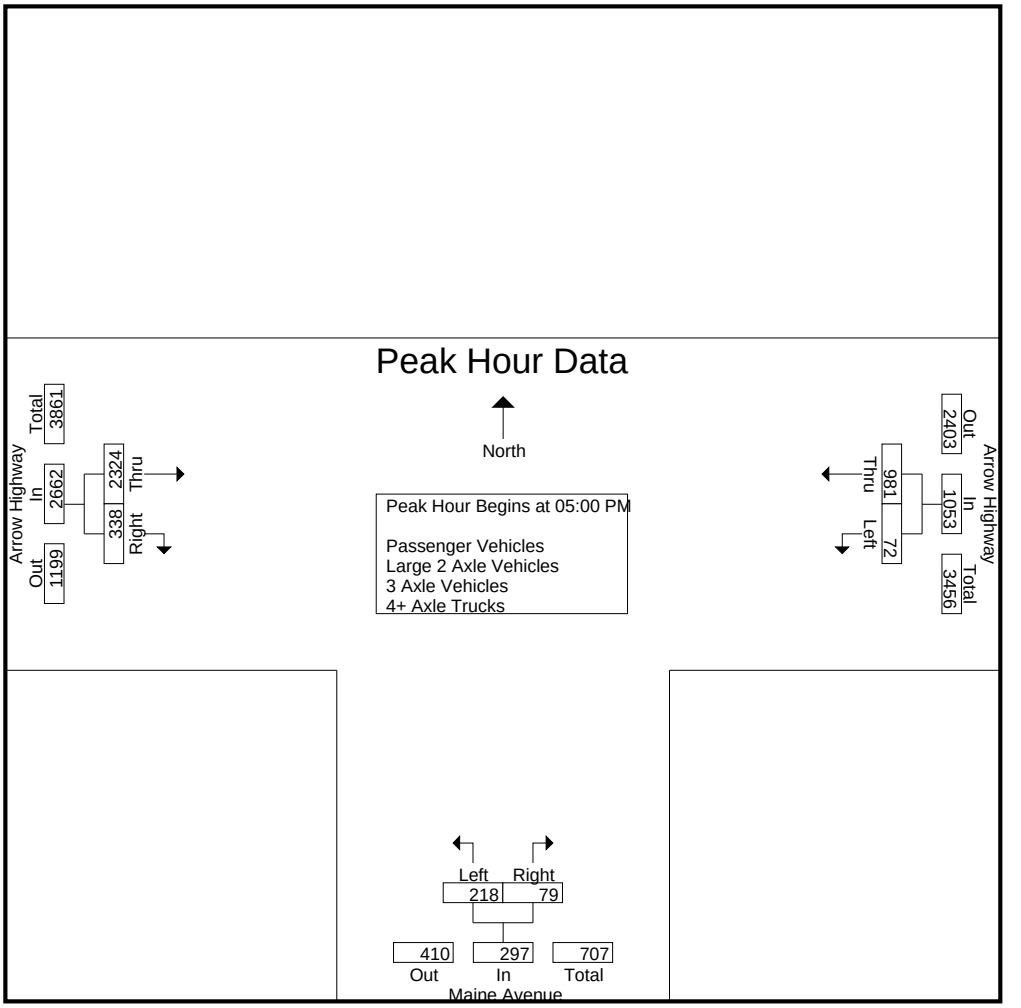

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM			04:15 PM			05:00 PM		
+0 mins.	15	245	260	72	**21**	93	555	82	637
+15 mins.	**17**	241	258	**77**	20	**97**	602	74	676
+30 mins.	12	244	256	42	17	59	**610**	**91**	**701**
+45 mins.	16	**274**	**290**	63	15	78	557	91	648
Total Volume	60	1004	1064	254	73	327	2324	338	2662
% App. Total	5.6	94.4		77.7	22.3		87.3	12.7	
PHF	.882	.916	.917	.825	.869	.843	.952	.929	.949

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City of Irwindale
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Groups Printed- Passenger Vehicles

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	14	201	215	58	14	72	503	67	570	857
04:15 PM	15	234	249	67	21	88	497	60	557	894
04:30 PM	17	222	239	74	19	93	555	65	620	952
04:45 PM	12	221	233	40	17	57	535	72	607	897
Total	58	878	936	239	71	310	2090	264	2354	3600
05:00 PM	16	261	277	62	15	77	532	82	614	968
05:15 PM	13	218	231	50	25	75	577	73	650	956
05:30 PM	21	235	256	57	21	78	596	90	686	1020
05:45 PM	22	229	251	43	17	60	538	88	626	937
Total	72	943	1015	212	78	290	2243	333	2576	3881
Grand Total	130	1821	1951	451	149	600	4333	597	4930	7481
Apprch %	6.7	93.3		75.2	24.8		87.9	12.1		
Total %	1.7	24.3	26.1	6	2	8	57.9	8	65.9	

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	16	**261**	**277**	**62**	15	77	532	82	614	968
05:15 PM	13	218	231	50	**25**	75	577	73	650	956
05:30 PM	21	235	256	57	21	**78**	**596**	**90**	**686**	**1020**
05:45 PM	**22**	229	251	43	17	60	538	88	626	937
Total Volume	72	943	1015	212	78	290	2243	333	2576	3881
% App. Total	7.1	92.9		73.1	26.9		87.1	12.9		
PHF	.818	.903	.916	.855	.780	.929	.941	.925	.939	.951

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City of Irwindale
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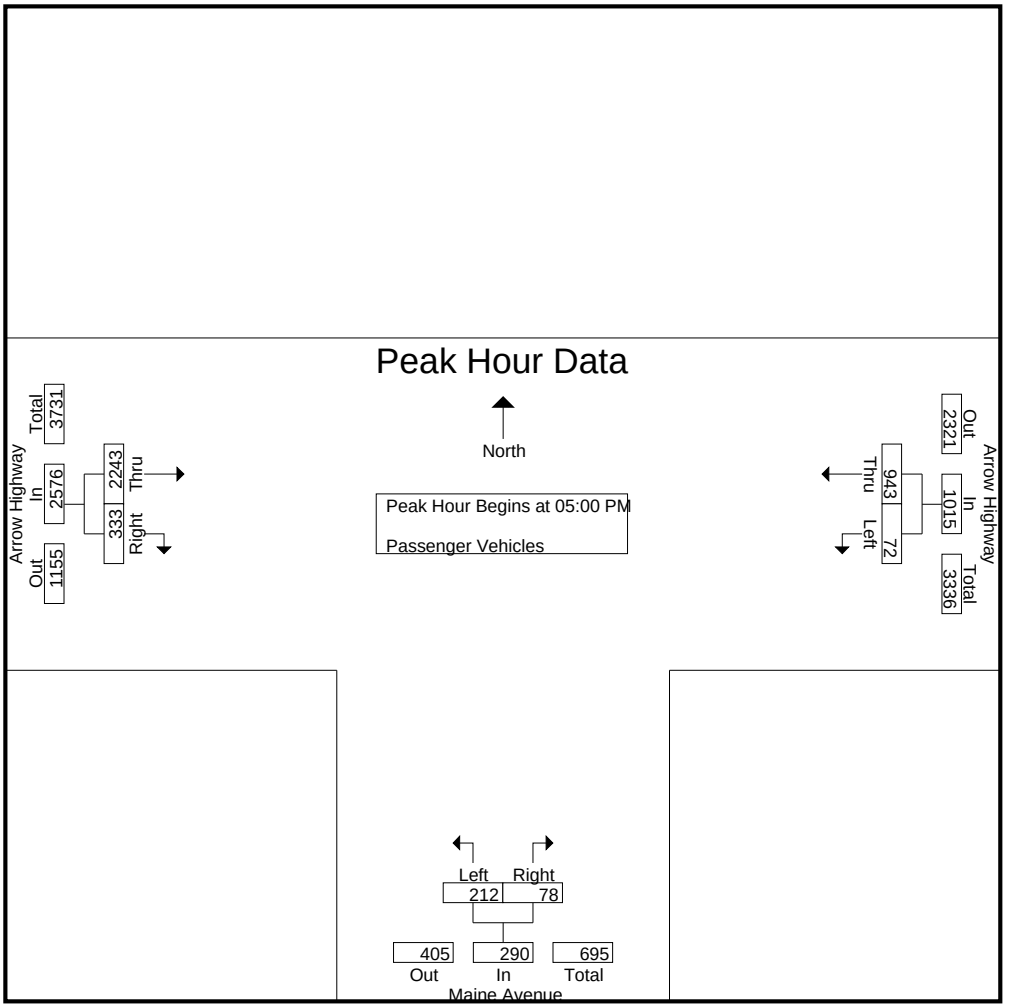

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	16	**261**	**277**	**62**	15	77	532	82	614
+15 mins.	13	218	231	50	**25**	75	577	73	650
+30 mins.	21	235	256	57	21	**78**	**596**	**90**	**686**
+45 mins.	**22**	229	251	43	17	60	538	88	626
Total Volume	72	943	1015	212	78	290	2243	333	2576
% App. Total	7.1	92.9		73.1	26.9		87.1	12.9	
PHF	.818	.903	.916	.855	.780	.929	.941	.925	.939

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Corona, CA 92878
(951) 268-6268

City of Irwindale
N/S: Maine Avenue
E/W: Arrow Highway
Weather: Clear

File Name : 08_IRW_Maine_Arrow PM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- Large 2 Axle Vehicles

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	1	11	12	2	0	2	19	2	21	35
04:15 PM	0	4	4	2	0	2	23	2	25	31
04:30 PM	0	11	11	3	1	4	18	1	19	34
04:45 PM	0	9	9	1	0	1	25	0	25	35
Total	1	35	36	8	1	9	85	5	90	135
05:00 PM	0	6	6	1	0	1	15	0	15	22
05:15 PM	0	4	4	2	0	2	20	1	21	27
05:30 PM	0	3	3	0	0	0	11	1	12	15
05:45 PM	0	5	5	2	0	2	8	3	11	18
Total	0	18	18	5	0	5	54	5	59	82
Grand Total	1	53	54	13	1	14	139	10	149	217
Apprch %	1.9	98.1		92.9	7.1		93.3	6.7		
Total %	0.5	24.4	24.9	6	0.5	6.5	64.1	4.6	68.7	

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	**6**	**6**	1	0	1	15	0	15	22
05:15 PM	0	4	4	**2**	0	**2**	**20**	1	**21**	**27**
05:30 PM	0	3	3	0	0	0	11	1	12	15
05:45 PM	0	5	5	2	0	2	8	**3**	11	18
Total Volume	0	18	18	5	0	5	54	5	59	82
% App. Total	0	100		100	0		91.5	8.5		
PHF	.000	.750	.750	.625	.000	.625	.675	.417	.702	.759

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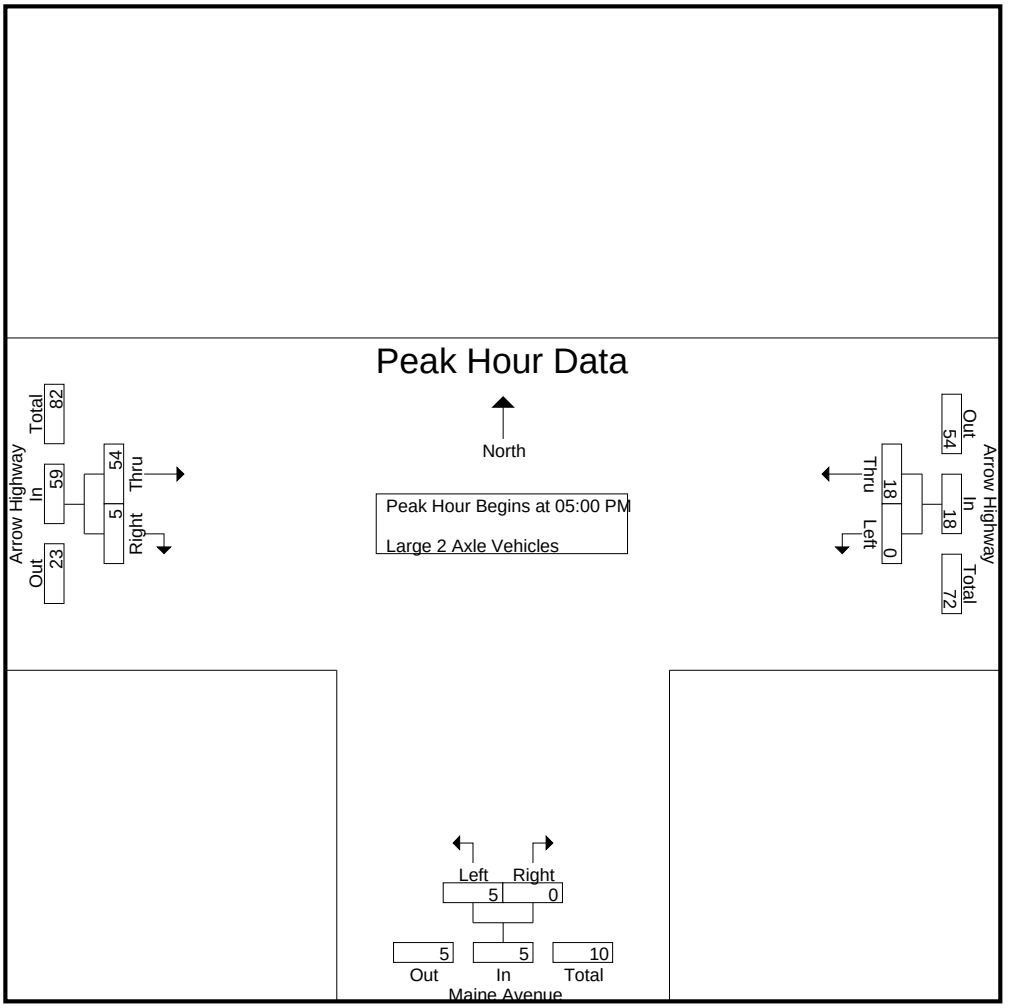

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	**6**	**6**	1	0	1	15	0	15
+15 mins.	0	4	4	**2**	0	**2**	**20**	1	**21**
+30 mins.	0	3	3	0	0	0	11	1	12
+45 mins.	0	5	5	2	0	2	8	**3**	11
Total Volume	0	18	18	5	0	5	54	5	59
% App. Total	0	100		100	0		91.5	8.5	
PHF	.000	.750	.750	.625	.000	.625	.675	.417	.702

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City of Irwindale
N/S: Maine Avenue
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Weather: Clear

File Name : 08_IRW_Maine_Arrow PM
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Groups Printed- 3 Axle Vehicles

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	1	1	0	0	0	4	0	4	5
04:15 PM	0	5	5	1	0	1	4	0	4	10
04:30 PM	0	6	6	0	0	0	1	2	3	9
04:45 PM	0	10	10	1	0	1	3	0	3	14
Total	0	22	22	2	0	2	12	2	14	38
05:00 PM	0	4	4	0	0	0	3	0	3	7
05:15 PM	0	3	3	0	0	0	1	0	1	4
05:30 PM	0	2	2	0	0	0	2	0	2	4
05:45 PM	0	0	0	0	0	0	1	0	1	1
Total	0	9	9	0	0	0	7	0	7	16
Grand Total	0	31	31	2	0	2	19	2	21	54
Apprch %	0	100		100	0		90.5	9.5		
Total %	0	57.4	57.4	3.7	0	3.7	35.2	3.7	38.9	

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	**4**	**4**	0	0	0	**3**	0	**3**	**7**
05:15 PM	0	3	3	0	0	0	1	0	1	4
05:30 PM	0	2	2	0	0	0	2	0	2	4
05:45 PM	0	0	0	0	0	0	1	0	1	1
Total Volume	0	9	9	0	0	0	7	0	7	16
% App. Total	0	100		0	0		100	0		
PHF	.000	.563	.563	.000	.000	.000	.583	.000	.583	.571

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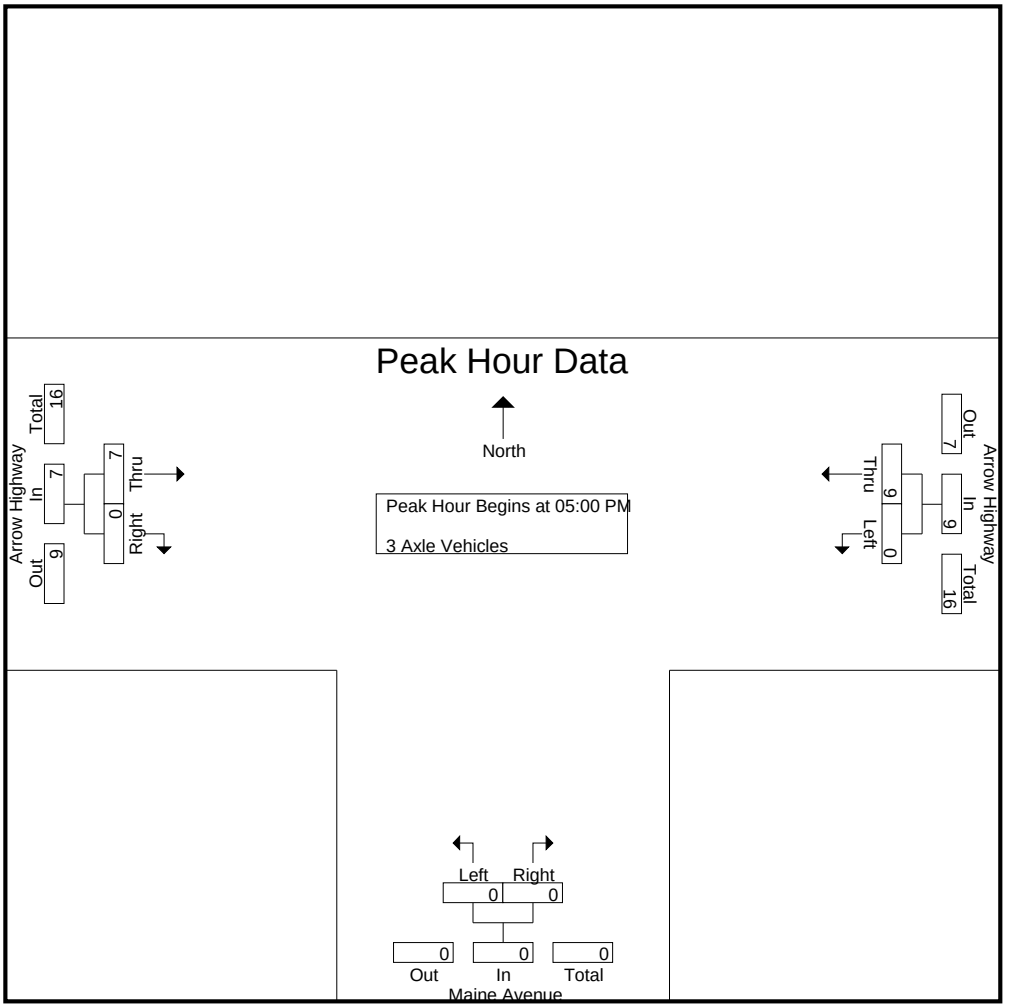

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	**4**	**4**	0	0	0	**3**	0	**3**
+15 mins.	0	3	3	0	0	0	1	0	1
+30 mins.	0	2	2	0	0	0	2	0	2
+45 mins.	0	0	0	0	0	0	1	0	1
Total Volume	0	9	9	0	0	0	7	0	7
% App. Total	0	100		0	0		100	0	
PHF	.000	.563	.563	.000	.000	.000	.583	.000	.583

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City of Irwindale
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Groups Printed- 4+ Axle Trucks

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	5	5	2	0	2	8	1	9	16
04:15 PM	0	2	2	2	0	2	8	0	8	12
04:30 PM	0	2	2	0	0	0	3	0	3	5
04:45 PM	0	4	4	0	0	0	4	0	4	8
Total	0	13	13	4	0	4	23	1	24	41
05:00 PM	0	3	3	0	0	0	5	0	5	8
05:15 PM	0	4	4	1	0	1	4	0	4	9
05:30 PM	0	1	1	0	1	1	1	0	1	3
05:45 PM	0	3	3	0	0	0	10	0	10	13
Total	0	11	11	1	1	2	20	0	20	33
Grand Total	0	24	24	5	1	6	43	1	44	74
Apprch %	0	100		83.3	16.7		97.7	2.3		
Total %	0	32.4	32.4	6.8	1.4	8.1	58.1	1.4	59.5	

	Arrow Highway Westbound			Maine Avenue Northbound			Arrow Highway Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 05:00 PM										
05:00 PM	0	3	3	0	0	0	5	0	5	8
05:15 PM	0	**4**	**4**	**1**	0	**1**	4	0	4	9
05:30 PM	0	1	1	0	**1**	1	1	0	1	3
05:45 PM	0	3	3	0	0	0	**10**	0	**10**	**13**
Total Volume	0	11	11	1	1	2	20	0	20	33
% App. Total	0	100		50	50		100	0		
PHF	.000	.688	.688	.250	.250	.500	.500	.000	.500	.635

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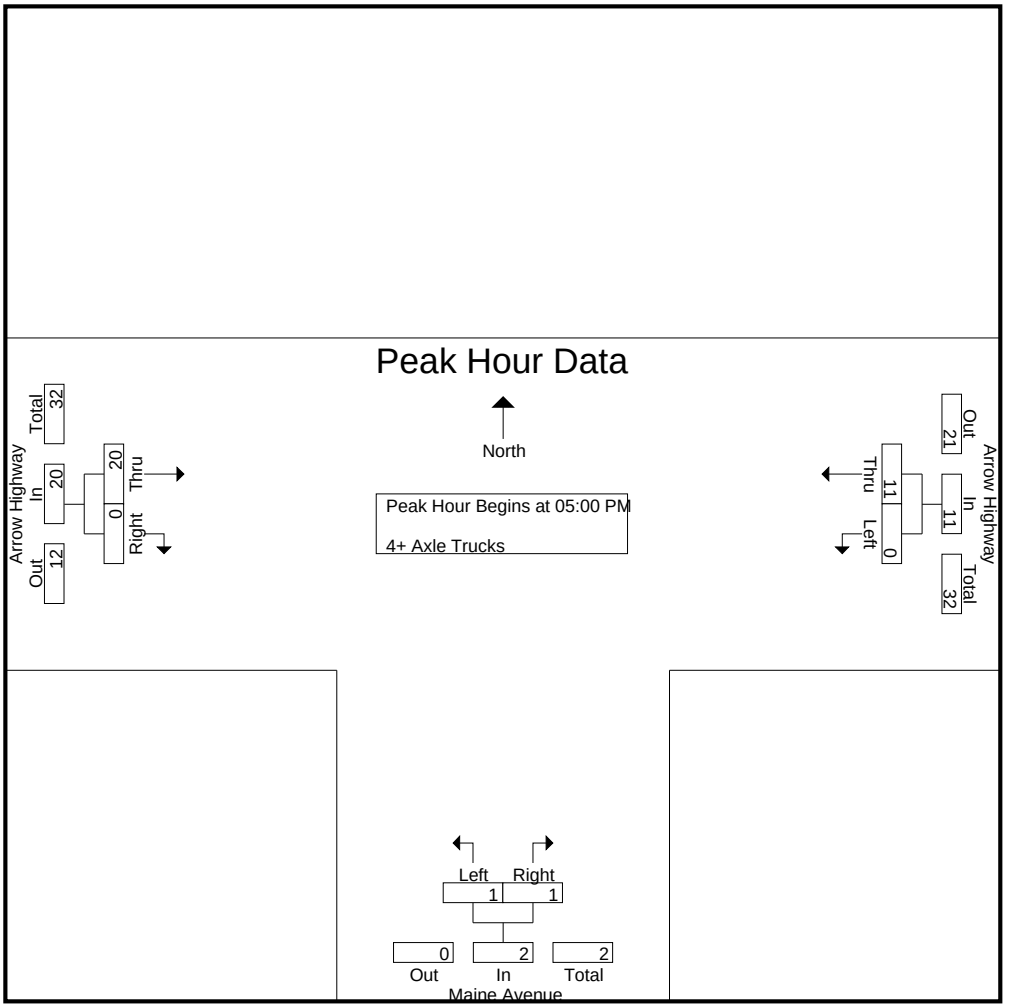

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			05:00 PM			05:00 PM		
+0 mins.	0	3	3	0	0	0	5	0	5
+15 mins.	0	**4**	**4**	**1**	0	**1**	4	0	4
+30 mins.	0	1	1	0	**1**	1	1	0	1
+45 mins.	0	3	3	0	0	0	**10**	0	**10**
Total Volume	0	11	11	1	1	2	20	0	20
% App. Total	0	100		50	50		100	0	
PHF	.000	.688	.688	.250	.250	.500	.500	.000	.500

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Arrow Highway
Weather: Clear

File Name : 09_IRW_Azusa Cyn_Arrow AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	5	2	3	10	16	478	4	498	230	2	23	255	1	148	14	163	926
07:15 AM	3	1	1	5	22	445	2	469	191	1	28	220	0	142	25	167	861
07:30 AM	0	0	1	1	26	399	1	426	141	0	29	170	0	191	32	223	820
07:45 AM	1	1	2	4	25	393	2	420	128	1	43	172	3	255	21	279	875
Total	9	4	7	20	89	1715	9	1813	690	4	123	817	4	736	92	832	3482
08:00 AM	4	0	2	6	21	367	3	391	98	2	39	139	4	249	29	282	818
08:15 AM	2	0	1	3	24	349	4	377	85	3	51	139	1	196	16	213	732
08:30 AM	3	1	2	6	16	280	2	298	77	1	30	108	3	225	19	247	659
08:45 AM	3	1	5	9	18	262	9	289	69	2	34	105	3	228	22	253	656
Total	12	2	10	24	79	1258	18	1355	329	8	154	491	11	898	86	995	2865
Grand Total	21	6	17	44	168	2973	27	3168	1019	12	277	1308	15	1634	178	1827	6347
Apprch %	47.7	13.6	38.6		5.3	93.8	0.9		77.9	0.9	21.2		0.8	89.4	9.7		
Total %	0.3	0.1	0.3	0.7	2.6	46.8	0.4	49.9	16.1	0.2	4.4	20.6	0.2	25.7	2.8	28.8	
Passenger Vehicles	19	6	12	37	148	2752	24	2924	981	12	260	1253	13	1454	166	1633	5847
% Passenger Vehicles	90.5	100	70.6	84.1	88.1	92.6	88.9	92.3	96.3	100	93.9	95.8	86.7	89	93.3	89.4	92.1
Large 2 Axle Vehicles	1	0	4	5	15	122	1	138	25	0	15	40	2	97	7	106	289
% Large 2 Axle Vehicles	4.8	0	23.5	11.4	8.9	4.1	3.7	4.4	2.5	0	5.4	3.1	13.3	5.9	3.9	5.8	4.6
3 Axle Vehicles	1	0	1	2	3	41	1	45	6	0	0	6	0	37	1	38	91
% 3 Axle Vehicles	4.8	0	5.9	4.5	1.8	1.4	3.7	1.4	0.6	0	0	0.5	0	2.3	0.6	2.1	1.4
4+ Axle Trucks	0	0	0	0	2	58	1	61	7	0	2	9	0	46	4	50	120
% 4+ Axle Trucks	0	0	0	0	1.2	2	3.7	1.9	0.7	0	0.7	0.7	0	2.8	2.2	2.7	1.9

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	**5**	**2**	**3**	**10**	16	**478**	**4**	**498**	**230**	**2**	23	**255**	1	148	14	163	**926**
07:15 AM	3	1	1	5	22	445	2	469	191	1	28	220	0	142	25	167	861
07:30 AM	0	0	1	1	**26**	399	1	426	141	0	29	170	0	191	**32**	223	820
07:45 AM	1	1	2	4	25	393	2	420	128	1	**43**	172	**3**	**255**	21	**279**	875
Total Volume	9	4	7	20	89	1715	9	1813	690	4	123	817	4	736	92	832	3482
% App. Total	45	20	35		4.9	94.6	0.5		84.5	0.5	15.1		0.5	88.5	11.1		
PHF	.450	.500	.583	.500	.856	.897	.563	.910	.750	.500	.715	.801	.333	.722	.719	.746	.940

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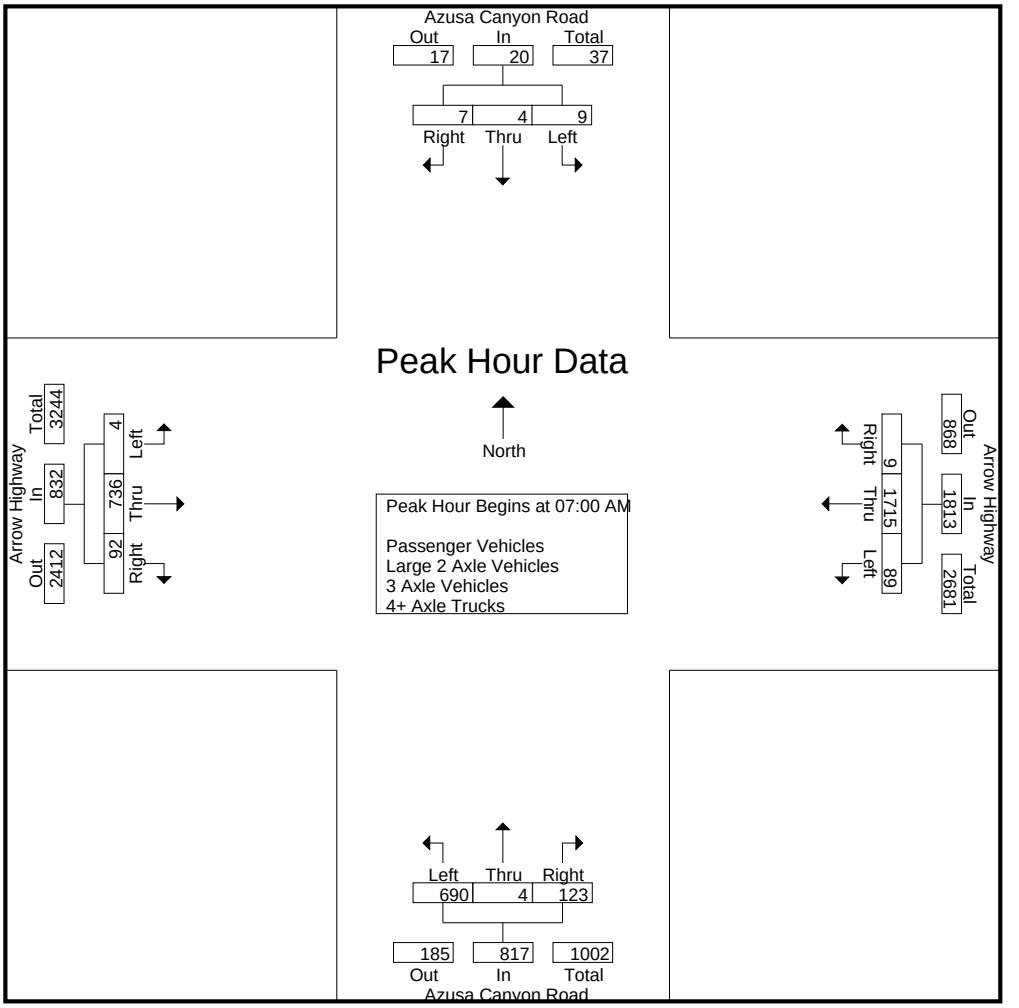

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				07:00 AM				07:00 AM				07:45 AM			
+0 mins.	**4**	0	2	6	16	**478**	**4**	**498**	**230**	**2**	23	**255**	3	**255**	21	279
+15 mins.	2	0	1	3	22	445	2	469	191	1	28	220	**4**	249	**29**	**282**
+30 mins.	3	**1**	2	6	**26**	399	1	426	141	0	29	170	1	196	16	213
+45 mins.	3	1	**5**	**9**	25	393	2	420	128	1	**43**	172	3	225	19	247
Total Volume	12	2	10	24	89	1715	9	1813	690	4	123	817	11	925	85	1021
% App. Total	50	8.3	41.7		4.9	94.6	0.5		84.5	0.5	15.1		1.1	90.6	8.3	
PHF	.750	.500	.500	.667	.856	.897	.563	.910	.750	.500	.715	.801	.688	.907	.733	.905

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Groups Printed- Passenger Vehicles

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	5	2	3	10	14	445	4	463	227	2	22	251	1	128	11	140	864
07:15 AM	2	1	0	3	21	420	2	443	186	1	27	214	0	125	25	150	810
07:30 AM	0	0	1	1	25	374	1	400	138	0	29	167	0	173	31	204	772
07:45 AM	1	1	2	4	25	379	2	406	120	1	42	163	2	233	21	256	829
Total	8	4	6	18	85	1618	9	1712	671	4	120	795	3	659	88	750	3275
08:00 AM	4	0	1	5	19	339	2	360	94	2	35	131	4	223	26	253	749
08:15 AM	2	0	0	2	19	316	4	339	81	3	47	131	1	174	15	190	662
08:30 AM	2	1	2	5	13	250	1	264	71	1	26	98	3	194	16	213	580
08:45 AM	3	1	3	7	12	229	8	249	64	2	32	98	2	204	21	227	581
Total	11	2	6	19	63	1134	15	1212	310	8	140	458	10	795	78	883	2572
Grand Total	19	6	12	37	148	2752	24	2924	981	12	260	1253	13	1454	166	1633	5847
Apprch %	51.4	16.2	32.4		5.1	94.1	0.8		78.3	1	20.8		0.8	89	10.2		
Total %	0.3	0.1	0.2	0.6	2.5	47.1	0.4	50	16.8	0.2	4.4	21.4	0.2	24.9	2.8	27.9	

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	**5**	**2**	**3**	**10**	14	**445**	**4**	**463**	**227**	**2**	22	**251**	1	128	11	140	**864**
07:15 AM	2	1	0	3	21	420	2	443	186	1	27	214	0	125	25	150	810
07:30 AM	0	0	1	1	**25**	374	1	400	138	0	29	167	0	173	**31**	204	772
07:45 AM	1	1	2	4	25	379	2	406	120	1	**42**	163	**2**	**233**	21	**256**	829
Total Volume	8	4	6	18	85	1618	9	1712	671	4	120	795	3	659	88	750	3275
% App. Total	44.4	22.2	33.3		5	94.5	0.5		84.4	0.5	15.1		0.4	87.9	11.7		
PHF	.400	.500	.500	.450	.850	.909	.563	.924	.739	.500	.714	.792	.375	.707	.710	.732	.948

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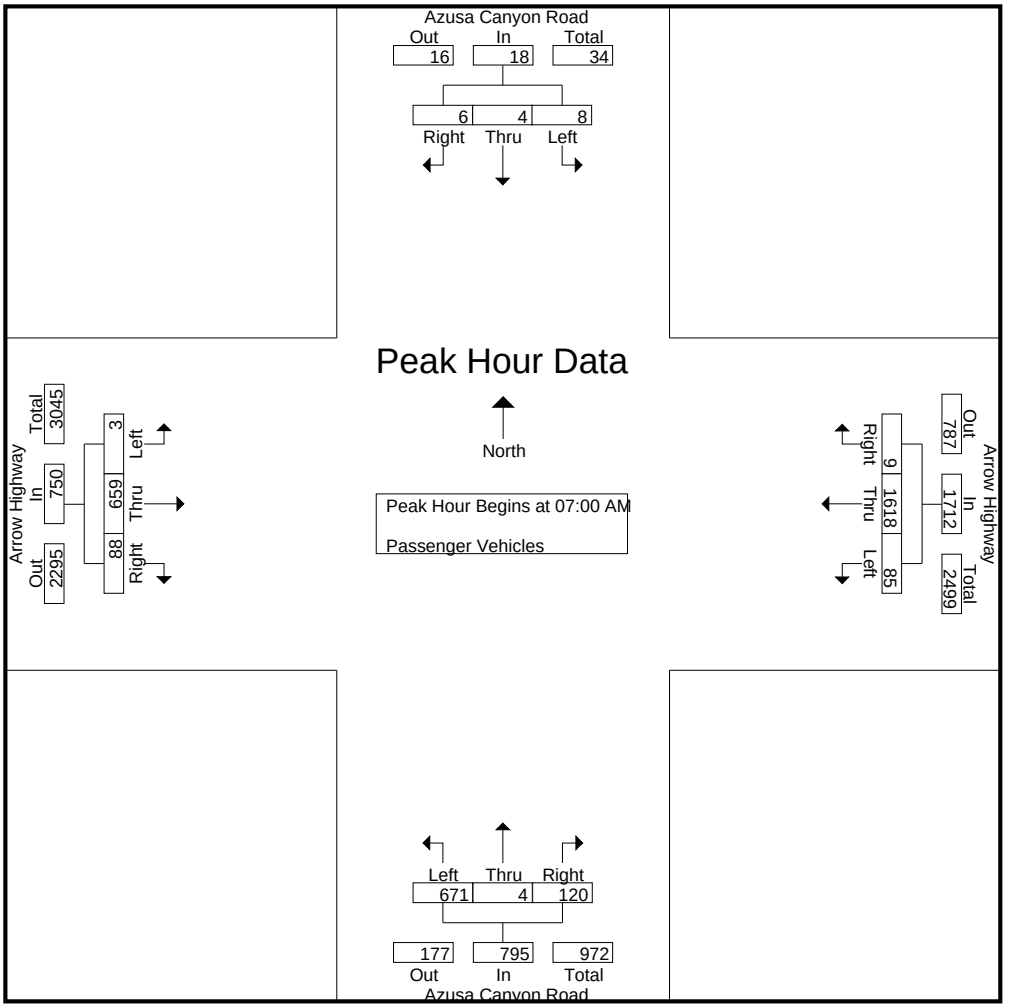

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	**5**	**2**	**3**	**10**	14	**445**	**4**	**463**	**227**	**2**	22	**251**	1	128	11	140
+15 mins.	2	1	0	3	21	420	2	443	186	1	27	214	0	125	25	150
+30 mins.	0	0	1	1	**25**	374	1	400	138	0	29	167	0	173	**31**	204
+45 mins.	1	1	2	4	25	379	2	406	120	1	**42**	163	**2**	**233**	21	**256**
Total Volume	8	4	6	18	85	1618	9	1712	671	4	120	795	3	659	88	750
% App. Total	44.4	22.2	33.3		5	94.5	0.5		84.4	0.5	15.1		0.4	87.9	11.7	
PHF	.400	.500	.500	.450	.850	.909	.563	.924	.739	.500	.714	.792	.375	.707	.710	.732

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Groups Printed- Large 2 Axle Vehicles

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	2	20	0	22	1	0	1	2	0	14	1	15	39
07:15 AM	1	0	1	2	1	13	0	14	4	0	1	5	0	9	0	9	30
07:30 AM	0	0	0	0	1	13	0	14	3	0	0	3	0	13	1	14	31
07:45 AM	0	0	0	0	0	8	0	8	5	0	1	6	1	8	0	9	23
Total	1	0	1	2	4	54	0	58	13	0	3	16	1	44	2	47	123
08:00 AM	0	0	1	1	2	13	1	16	4	0	4	8	0	17	2	19	44
08:15 AM	0	0	1	1	5	20	0	25	2	0	3	5	0	15	1	16	47
08:30 AM	0	0	0	0	2	18	0	20	3	0	3	6	0	13	1	14	40
08:45 AM	0	0	1	1	2	17	0	19	3	0	2	5	1	8	1	10	35
Total	0	0	3	3	11	68	1	80	12	0	12	24	1	53	5	59	166
Grand Total	1	0	4	5	15	122	1	138	25	0	15	40	2	97	7	106	289
Apprch %	20	0	80		10.9	88.4	0.7		62.5	0	37.5		1.9	91.5	6.6		
Total %	0.3	0	1.4	1.7	5.2	42.2	0.3	47.8	8.7	0	5.2	13.8	0.7	33.6	2.4	36.7	

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	0	0	0	0	**2**	**20**	0	**22**	1	0	**1**	2	0	**14**	**1**	**15**	**39**
07:15 AM	**1**	0	**1**	**2**	1	13	0	14	4	0	1	5	0	9	0	9	30
07:30 AM	0	0	0	0	1	13	0	14	3	0	0	3	0	13	1	14	31
07:45 AM	0	0	0	0	0	8	0	8	**5**	0	1	**6**	**1**	8	0	9	23
Total Volume	1	0	1	2	4	54	0	58	13	0	3	16	1	44	2	47	123
% App. Total	50	0	50		6.9	93.1	0		81.2	0	18.8		2.1	93.6	4.3		
PHF	.250	.000	.250	.250	.500	.675	.000	.659	.650	.000	.750	.667	.250	.786	.500	.783	.788

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Arrow Highway
Weather: Clear

File Name : 09_IRW_Azusa Cyn_Arrow AM
Site Code : 22518834
Start Date : 11/1/2018
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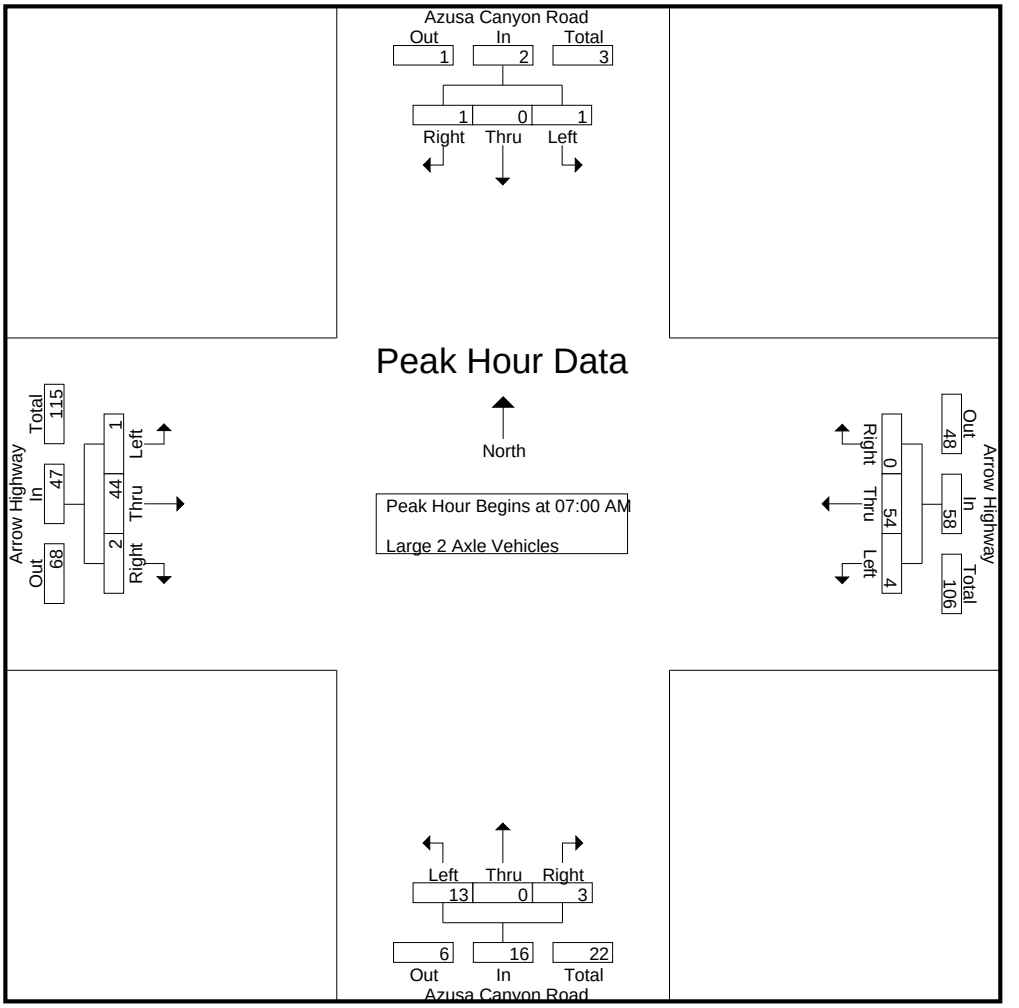

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	0	0	**2**	**20**	0	**22**	1	0	**1**	2	0	**14**	**1**	**15**
+15 mins.	**1**	0	**1**	**2**	1	13	0	14	4	0	1	5	0	9	0	9
+30 mins.	0	0	0	0	1	13	0	14	3	0	0	3	0	13	1	14
+45 mins.	0	0	0	0	0	8	0	8	**5**	0	1	**6**	**1**	8	0	9
Total Volume	1	0	1	2	4	54	0	58	13	0	3	16	1	44	2	47
% App. Total	50	0	50		6.9	93.1	0		81.2	0	18.8		2.1	93.6	4.3	
PHF	.250	.000	.250	.250	.500	.675	.000	.659	.650	.000	.750	.667	.250	.786	.500	.783

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City of Irwindale
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Weather: Clear

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Groups Printed- 3 Axle Vehicles

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	5	0	5	1	0	0	1	0	3	0	3	9
07:15 AM	0	0	0	0	0	4	0	4	0	0	0	0	0	5	0	5	9
07:30 AM	0	0	0	0	0	5	0	5	0	0	0	0	0	2	0	2	7
07:45 AM	0	0	0	0	0	4	0	4	0	0	0	0	0	8	0	8	12
Total	0	0	0	0	0	18	0	18	1	0	0	1	0	18	0	18	37
08:00 AM	0	0	0	0	0	8	0	8	0	0	0	0	0	3	0	3	11
08:15 AM	0	0	0	0	0	6	0	6	2	0	0	2	0	4	0	4	12
08:30 AM	1	0	0	1	1	7	0	8	2	0	0	2	0	5	1	6	17
08:45 AM	0	0	1	1	2	2	1	5	1	0	0	1	0	7	0	7	14
Total	1	0	1	2	3	23	1	27	5	0	0	5	0	19	1	20	54
Grand Total	1	0	1	2	3	41	1	45	6	0	0	6	0	37	1	38	91
Apprch %	50	0	50		6.7	91.1	2.2		100	0	0		0	97.4	2.6		
Total %	1.1	0	1.1	2.2	3.3	45.1	1.1	49.5	6.6	0	0	6.6	0	40.7	1.1	41.8	

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	0	0	0	0	0	**5**	0	**5**	**1**	0	0	**1**	0	3	0	3	9
07:15 AM	0	0	0	0	0	4	0	4	0	0	0	0	0	5	0	5	9
07:30 AM	0	0	0	0	0	5	0	5	0	0	0	0	0	2	0	2	7
07:45 AM	0	0	0	0	0	4	0	4	0	0	0	0	0	**8**	0	**8**	**12**
Total Volume	0	0	0	0	0	18	0	18	1	0	0	1	0	18	0	18	37
% App. Total	0	0	0		0	100	0		100	0	0		0	100	0		
PHF	.000	.000	.000	.000	.000	.900	.000	.900	.250	.000	.000	.250	.000	.563	.000	.563	.771

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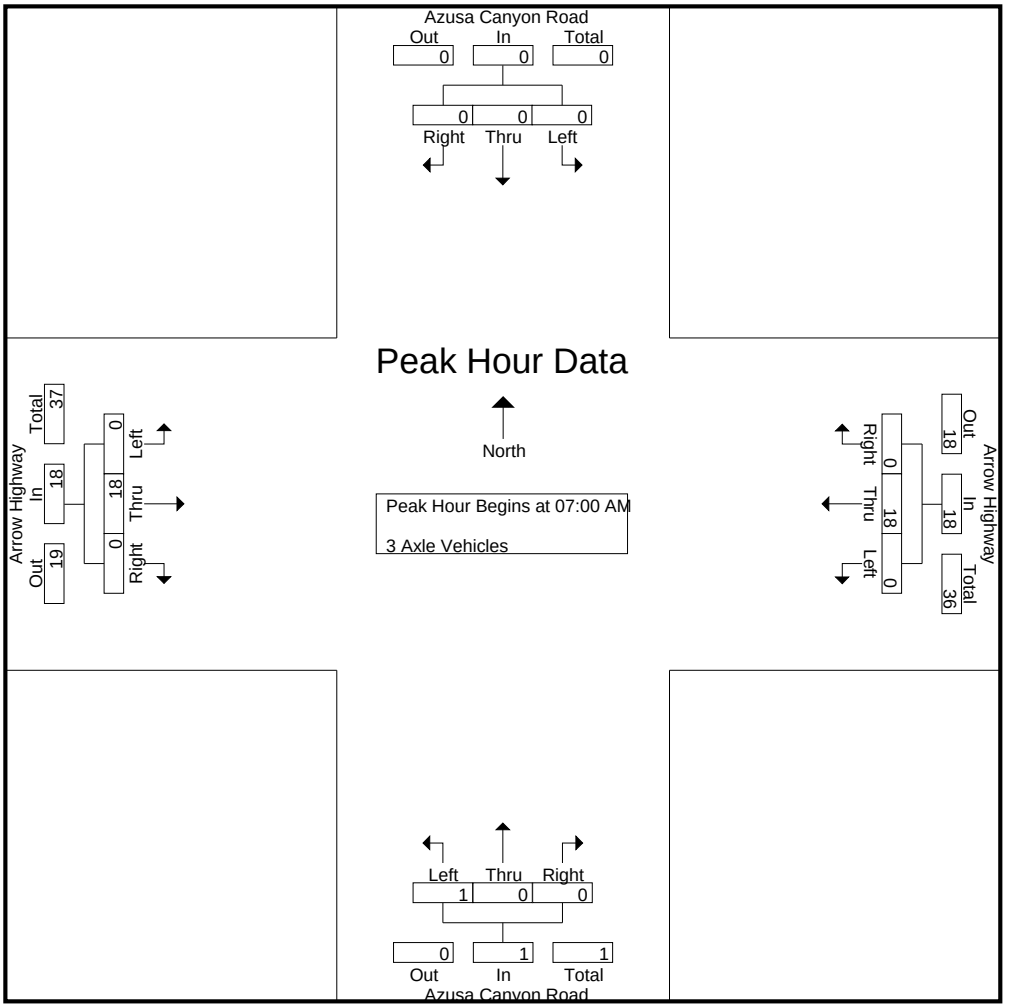

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	0	0	0	**5**	0	**5**	**1**	0	0	**1**	0	3	0	3
+15 mins.	0	0	0	0	0	4	0	4	0	0	0	0	0	5	0	5
+30 mins.	0	0	0	0	0	5	0	5	0	0	0	0	0	2	0	2
+45 mins.	0	0	0	0	0	4	0	4	0	0	0	0	0	**8**	0	**8**
Total Volume	0	0	0	0	0	18	0	18	1	0	0	1	0	18	0	18
% App. Total	0	0	0		0	100	0		100	0	0		0	100	0	
PHF	.000	.000	.000	.000	.000	.900	.000	.900	.250	.000	.000	.250	.000	.563	.000	.563

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Weather: Clear

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Groups Printed- 4+ Axle Trucks

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	8	0	8	1	0	0	1	0	3	2	5	14
07:15 AM	0	0	0	0	0	8	0	8	1	0	0	1	0	3	0	3	12
07:30 AM	0	0	0	0	0	7	0	7	0	0	0	0	0	3	0	3	10
07:45 AM	0	0	0	0	0	2	0	2	3	0	0	3	0	6	0	6	11
Total	0	0	0	0	0	25	0	25	5	0	0	5	0	15	2	17	47
08:00 AM	0	0	0	0	0	7	0	7	0	0	0	0	0	6	1	7	14
08:15 AM	0	0	0	0	0	7	0	7	0	0	1	1	0	3	0	3	11
08:30 AM	0	0	0	0	0	5	1	6	1	0	1	2	0	13	1	14	22
08:45 AM	0	0	0	0	2	14	0	16	1	0	0	1	0	9	0	9	26
Total	0	0	0	0	2	33	1	36	2	0	2	4	0	31	2	33	73
Grand Total	0	0	0	0	2	58	1	61	7	0	2	9	0	46	4	50	120
Apprch %	0	0	0		3.3	95.1	1.6		77.8	0	22.2		0	92	8		
Total %	0	0	0	0	1.7	48.3	0.8	50.8	5.8	0	1.7	7.5	0	38.3	3.3	41.7	

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	0	0	0	0	0	**8**	0	**8**	1	0	0	1	0	3	**2**	5	**14**
07:15 AM	0	0	0	0	0	8	0	8	1	0	0	1	0	3	0	3	12
07:30 AM	0	0	0	0	0	7	0	7	0	0	0	0	0	3	0	3	10
07:45 AM	0	0	0	0	0	2	0	2	**3**	0	0	**3**	0	**6**	0	**6**	11
Total Volume	0	0	0	0	0	25	0	25	5	0	0	5	0	15	2	17	47
% App. Total	0	0	0		0	100	0		100	0	0		0	88.2	11.8		
PHF	.000	.000	.000	.000	.000	.781	.000	.781	.417	.000	.000	.417	.000	.625	.250	.708	.839

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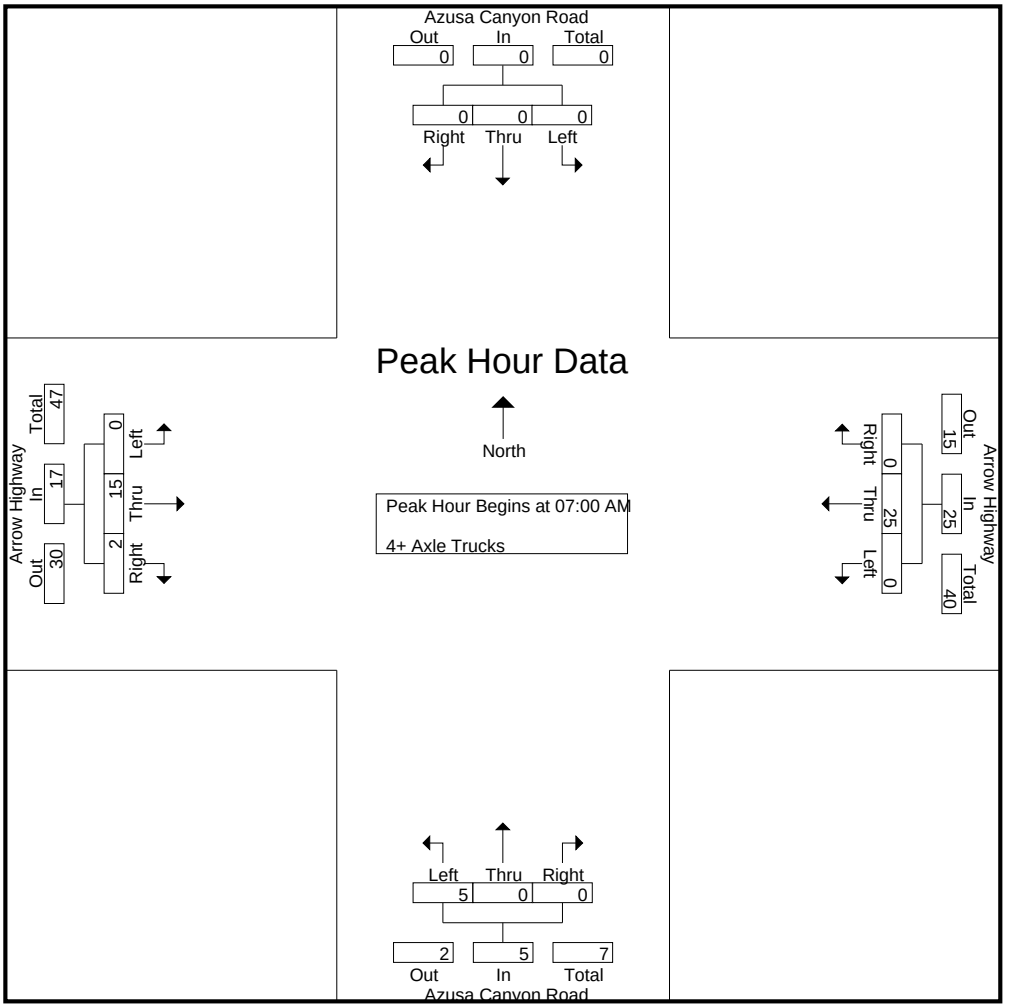

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	0	0	0	**8**	0	**8**	1	0	0	1	0	3	**2**	5
+15 mins.	0	0	0	0	0	8	0	8	1	0	0	1	0	3	0	3
+30 mins.	0	0	0	0	0	7	0	7	0	0	0	0	0	3	0	3
+45 mins.	0	0	0	0	0	2	0	2	**3**	0	0	**3**	0	**6**	0	**6**
Total Volume	0	0	0	0	0	25	0	25	5	0	0	5	0	15	2	17
% App. Total	0	0	0		0	100	0		100	0	0		0	88.2	11.8	
PHF	.000	.000	.000	.000	.000	.781	.000	.781	.417	.000	.000	.417	.000	.625	.250	.708

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City of Irwindale
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E/W: Arrow Highway
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File Name : 09_IRW_Azusa Cyn_Arrow PM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	1	3	4	36	235	4	275	39	2	69	110	4	474	77	555	944
04:15 PM	3	6	10	19	37	230	4	271	33	5	64	102	5	445	68	518	910
04:30 PM	4	2	1	7	35	235	3	273	29	2	57	88	2	492	79	573	941
04:45 PM	3	5	5	13	39	225	4	268	23	8	57	88	0	478	86	564	933
Total	10	14	19	43	147	925	15	1087	124	17	247	388	11	1889	310	2210	3728
05:00 PM	7	3	3	13	37	282	4	323	30	1	57	88	3	487	63	553	977
05:15 PM	3	3	6	12	37	194	2	233	35	3	56	94	2	498	70	570	909
05:30 PM	3	6	3	12	29	241	3	273	33	2	78	113	2	482	74	558	956
05:45 PM	11	7	10	28	34	235	4	273	28	1	53	82	2	473	87	562	945
Total	24	19	22	65	137	952	13	1102	126	7	244	377	9	1940	294	2243	3787
Grand Total	34	33	41	108	284	1877	28	2189	250	24	491	765	20	3829	604	4453	7515
Apprch %	31.5	30.6	38		13	85.7	1.3		32.7	3.1	64.2		0.4	86	13.6		
Total %	0.5	0.4	0.5	1.4	3.8	25	0.4	29.1	3.3	0.3	6.5	10.2	0.3	51	8	59.3	
Passenger Vehicles	30	32	40	102	270	1760	26	2056	239	22	477	738	16	3669	587	4272	7168
% Passenger Vehicles	88.2	97	97.6	94.4	95.1	93.8	92.9	93.9	95.6	91.7	97.1	96.5	80	95.8	97.2	95.9	95.4
Large 2 Axle Vehicles	4	1	1	6	11	58	2	71	8	1	12	21	4	113	12	129	227
% Large 2 Axle Vehicles	11.8	3	2.4	5.6	3.9	3.1	7.1	3.2	3.2	4.2	2.4	2.7	20	3	2	2.9	3
3 Axle Vehicles	0	0	0	0	1	33	0	34	2	1	0	3	0	15	1	16	53
% 3 Axle Vehicles	0	0	0	0	0.4	1.8	0	1.6	0.8	4.2	0	0.4	0	0.4	0.2	0.4	0.7
4+ Axle Trucks	0	0	0	0	2	26	0	28	1	0	2	3	0	32	4	36	67
% 4+ Axle Trucks	0	0	0	0	0.7	1.4	0	1.3	0.4	0	0.4	0.4	0	0.8	0.7	0.8	0.9

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	7	3	3	13	**37**	**282**	**4**	**323**	30	1	57	88	**3**	487	63	553	**977**
05:15 PM	3	3	6	12	37	194	2	233	**35**	**3**	56	94	2	**498**	70	**570**	909
05:30 PM	3	6	3	12	29	241	3	273	33	2	**78**	**113**	2	482	74	558	956
05:45 PM	**11**	**7**	**10**	**28**	34	235	4	273	28	1	53	82	2	473	**87**	562	945
Total Volume	24	19	22	65	137	952	13	1102	126	7	244	377	9	1940	294	2243	3787
% App. Total	36.9	29.2	33.8		12.4	86.4	1.2		33.4	1.9	64.7		0.4	86.5	13.1		
PHF	.545	.679	.550	.580	.926	.844	.813	.853	.900	.583	.782	.834	.750	.974	.845	.984	.969

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City of Irwindale
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Weather: Clear

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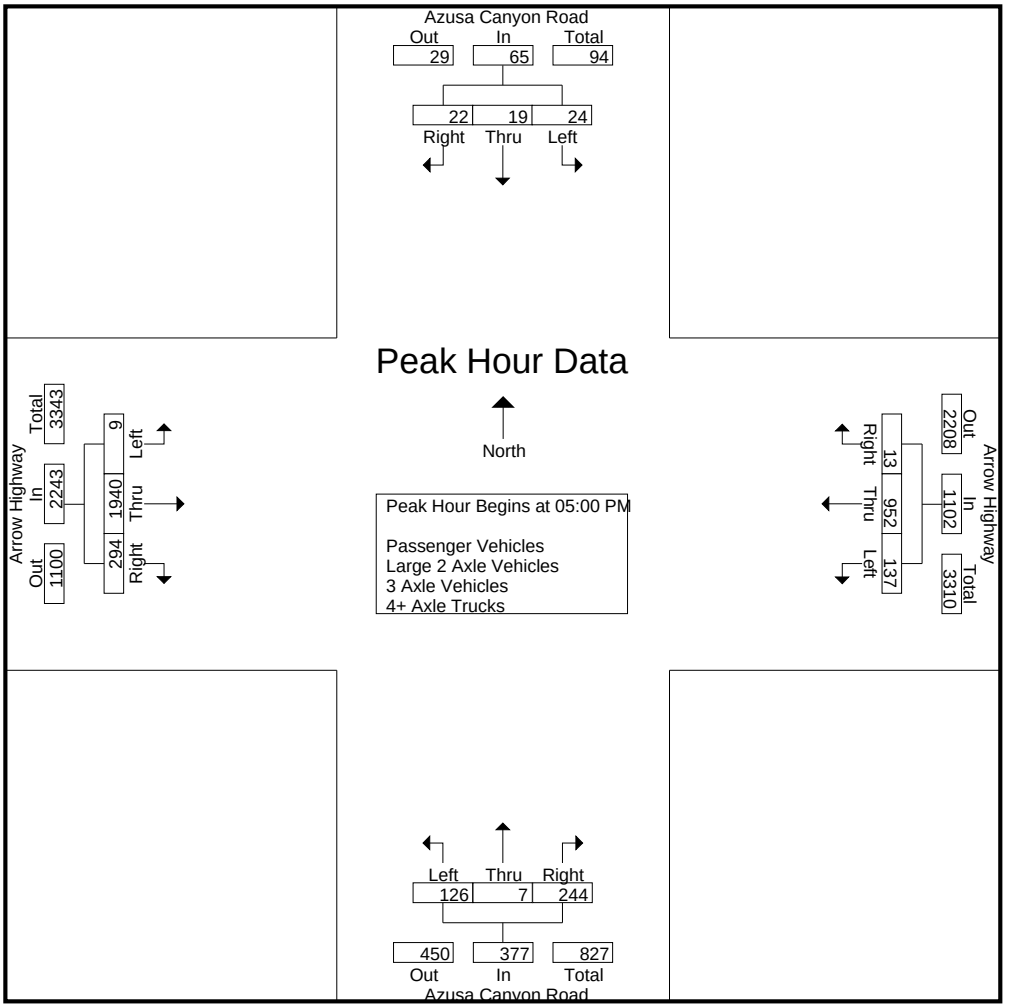

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				04:15 PM				04:00 PM				04:30 PM			
+0 mins.	7	3	3	13	37	230	**4**	271	**39**	2	**69**	**110**	2	492	79	**573**
+15 mins.	3	3	6	12	35	235	3	273	33	5	64	102	0	478	**86**	564
+30 mins.	3	6	3	12	**39**	225	4	268	29	2	57	88	**3**	487	63	553
+45 mins.	**11**	**7**	**10**	**28**	37	**282**	4	**323**	23	**8**	57	88	2	**498**	70	570
Total Volume	24	19	22	65	148	972	15	1135	124	17	247	388	7	1955	298	2260
% App. Total	36.9	29.2	33.8		13	85.6	1.3		32	4.4	63.7		0.3	86.5	13.2	
PHF	.545	.679	.550	.580	.949	.862	.938	.878	.795	.531	.895	.882	.583	.981	.866	.986

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City of Irwindale
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Weather: Clear

File Name : 09_IRW_Azusa Cyn_Arrow PM
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Groups Printed- Passenger Vehicles

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	1	3	4	34	206	4	244	36	0	66	102	2	446	76	524	874
04:15 PM	3	6	9	18	35	219	4	258	31	5	62	98	3	421	65	489	863
04:30 PM	4	2	1	7	34	215	2	251	26	2	55	83	2	478	76	556	897
04:45 PM	2	5	5	12	35	208	4	247	23	8	55	86	0	452	81	533	878
Total	9	14	18	41	138	848	14	1000	116	15	238	369	7	1797	298	2102	3512
05:00 PM	7	3	3	13	35	268	3	306	28	1	55	84	3	469	61	533	936
05:15 PM	2	2	6	10	35	183	2	220	34	3	56	93	2	479	69	550	873
05:30 PM	3	6	3	12	29	236	3	268	33	2	77	112	2	469	73	544	936
05:45 PM	9	7	10	26	33	225	4	262	28	1	51	80	2	455	86	543	911
Total	21	18	22	61	132	912	12	1056	123	7	239	369	9	1872	289	2170	3656
Grand Total	30	32	40	102	270	1760	26	2056	239	22	477	738	16	3669	587	4272	7168
Apprch %	29.4	31.4	39.2		13.1	85.6	1.3		32.4	3	64.6		0.4	85.9	13.7		
Total %	0.4	0.4	0.6	1.4	3.8	24.6	0.4	28.7	3.3	0.3	6.7	10.3	0.2	51.2	8.2	59.6	

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	7	3	3	13	**35**	**268**	3	**306**	28	1	55	84	**3**	469	61	533	**936**
05:15 PM	2	2	6	10	35	183	2	220	**34**	**3**	56	93	2	**479**	69	**550**	873
05:30 PM	3	6	3	12	29	236	3	268	33	2	**77**	**112**	2	469	73	544	936
05:45 PM	**9**	**7**	**10**	**26**	33	225	**4**	262	28	1	51	80	2	455	**86**	543	911
Total Volume	21	18	22	61	132	912	12	1056	123	7	239	369	9	1872	289	2170	3656
% App. Total	34.4	29.5	36.1		12.5	86.4	1.1		33.3	1.9	64.8		0.4	86.3	13.3		
PHF	.583	.643	.550	.587	.943	.851	.750	.863	.904	.583	.776	.824	.750	.977	.840	.986	.976

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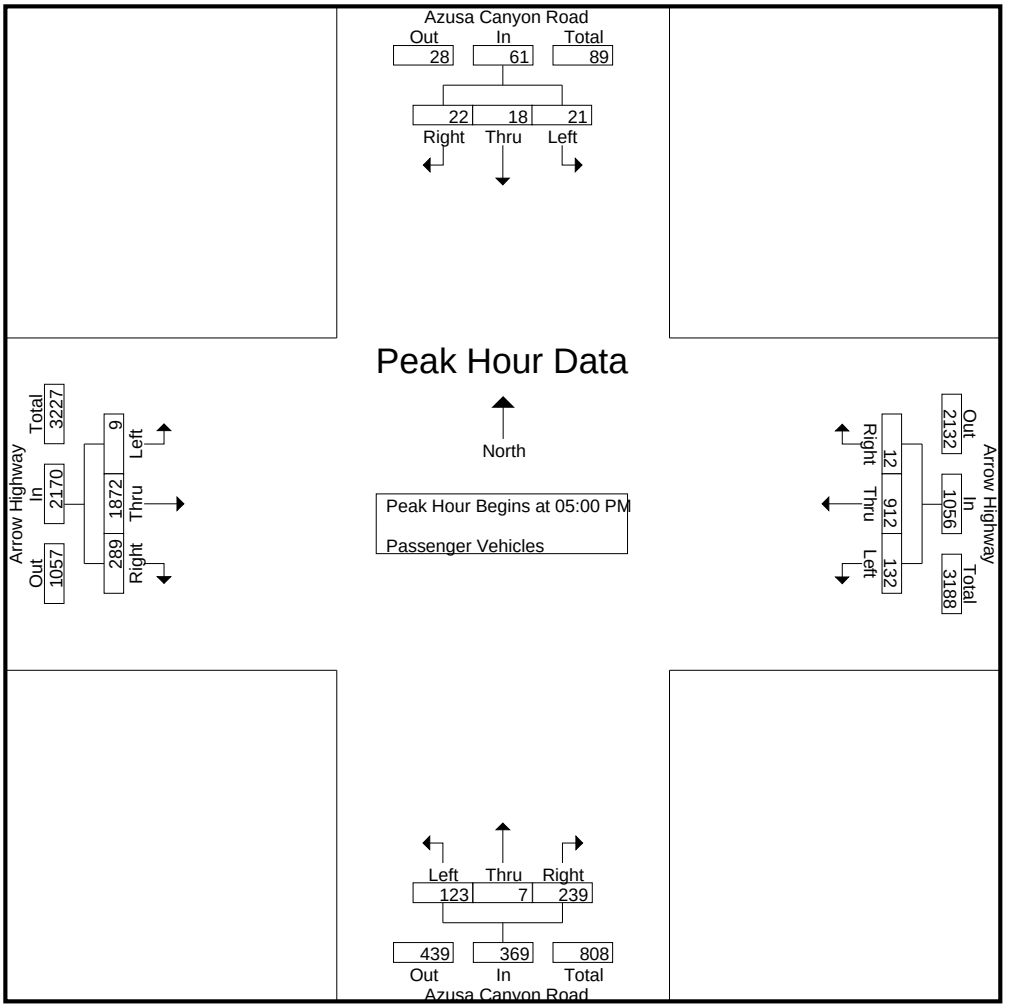
City of Irwindale
N/S: Azusa Canyon Road
E/W: Arrow Highway
Weather: Clear

File Name : 09_IRW_Azusa Cyn_Arrow PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 2



Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	7	3	3	13	**35**	**268**	3	**306**	28	1	55	84	**3**	469	61	533
+15 mins.	2	2	6	10	35	183	2	220	**34**	**3**	56	93	2	**479**	69	**550**
+30 mins.	3	6	3	12	29	236	3	268	33	2	**77**	**112**	2	469	73	544
+45 mins.	**9**	**7**	**10**	**26**	33	225	**4**	262	28	1	51	80	2	455	**86**	543
Total Volume	21	18	22	61	132	912	12	1056	123	7	239	369	9	1872	289	2170
% App. Total	34.4	29.5	36.1		12.5	86.4	1.1		33.3	1.9	64.8		0.4	86.3	13.3	
PHF	.583	.643	.550	.587	.943	.851	.750	.863	.904	.583	.776	.824	.750	.977	.840	.986

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Arrow Highway
Weather: Clear

File Name : 09_IRW_Azusa Cyn_Arrow PM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- Large 2 Axle Vehicles

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	1	16	0	17	2	1	2	5	2	17	0	19	41
04:15 PM	0	0	1	1	1	7	0	8	2	0	2	4	2	17	1	20	33
04:30 PM	0	0	0	0	1	11	1	13	1	0	2	3	0	11	3	14	30
04:45 PM	1	0	0	1	4	5	0	9	0	0	1	1	0	21	5	26	37
Total	1	0	1	2	7	39	1	47	5	1	7	13	4	66	9	79	141
05:00 PM	0	0	0	0	2	7	1	10	2	0	2	4	0	14	0	14	28
05:15 PM	1	1	0	2	1	3	0	4	1	0	0	1	0	14	1	15	22
05:30 PM	0	0	0	0	0	2	0	2	0	0	1	1	0	9	1	10	13
05:45 PM	2	0	0	2	1	7	0	8	0	0	2	2	0	10	1	11	23
Total	3	1	0	4	4	19	1	24	3	0	5	8	0	47	3	50	86
Grand Total	4	1	1	6	11	58	2	71	8	1	12	21	4	113	12	129	227
Apprch %	66.7	16.7	16.7		15.5	81.7	2.8		38.1	4.8	57.1		3.1	87.6	9.3		
Total %	1.8	0.4	0.4	2.6	4.8	25.6	0.9	31.3	3.5	0.4	5.3	9.3	1.8	49.8	5.3	56.8	

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	**2**	**7**	**1**	**10**	**2**	0	**2**	**4**	0	**14**	0	14	**28**
05:15 PM	1	**1**	0	**2**	1	3	0	4	1	0	0	1	0	14	**1**	**15**	22
05:30 PM	0	0	0	0	0	2	0	2	0	0	1	1	0	9	1	10	13
05:45 PM	**2**	0	0	2	1	7	0	8	0	0	2	2	0	10	1	11	23
Total Volume	3	1	0	4	4	19	1	24	3	0	5	8	0	47	3	50	86
% App. Total	75	25	0		16.7	79.2	4.2		37.5	0	62.5		0	94	6		
PHF	.375	.250	.000	.500	.500	.679	.250	.600	.375	.000	.625	.500	.000	.839	.750	.833	.768

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Arrow Highway
Weather: Clear

File Name : 09_IRW_Azusa Cyn_Arrow PM
Site Code : 22518834
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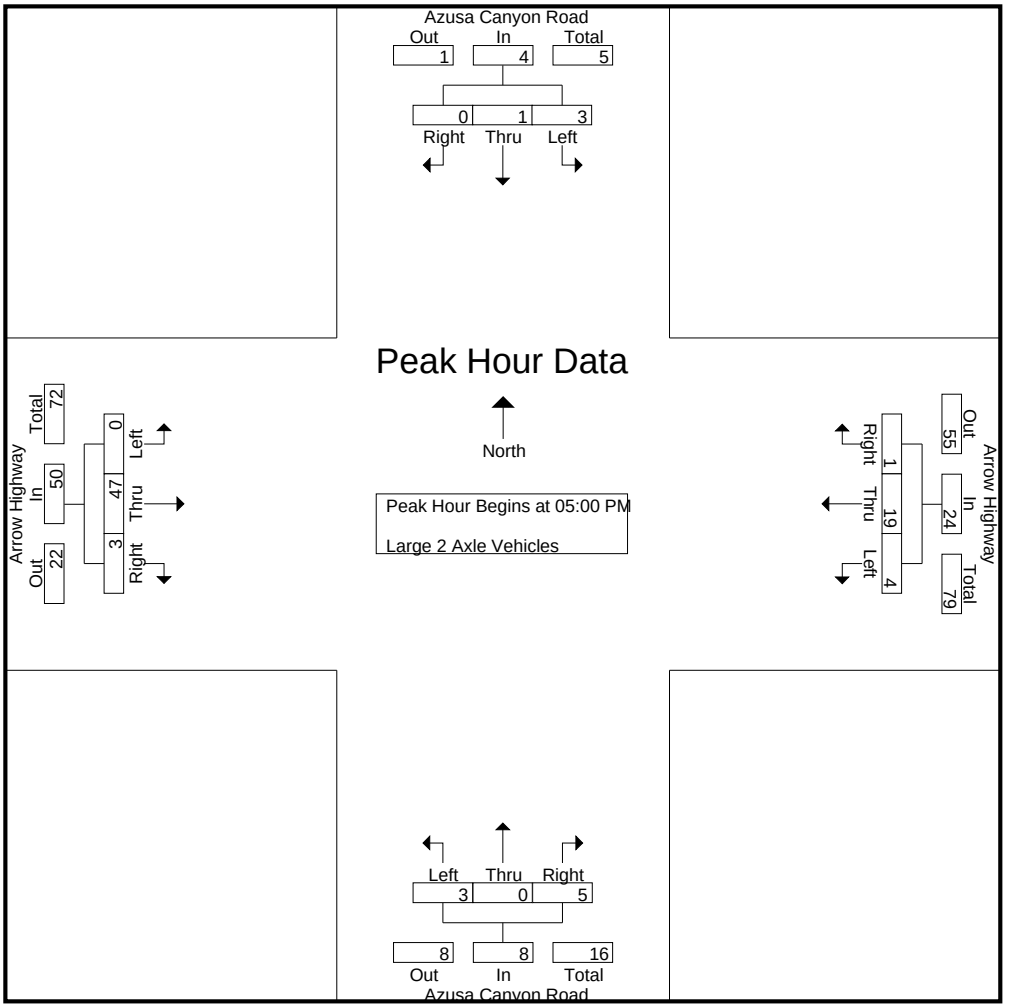

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	**2**	**7**	**1**	**10**	**2**	0	**2**	**4**	0	**14**	0	14
+15 mins.	1	**1**	0	**2**	1	3	0	4	1	0	0	1	0	14	**1**	**15**
+30 mins.	0	0	0	0	0	2	0	2	0	0	1	1	0	9	1	10
+45 mins.	**2**	0	0	2	1	7	0	8	0	0	2	2	0	10	1	11
Total Volume	3	1	0	4	4	19	1	24	3	0	5	8	0	47	3	50
% App. Total	75	25	0		16.7	79.2	4.2		37.5	0	62.5		0	94	6	
PHF	.375	.250	.000	.500	.500	.679	.250	.600	.375	.000	.625	.500	.000	.839	.750	.833

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Arrow Highway
Weather: Clear

File Name : 09_IRW_Azusa Cyn_Arrow PM
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Groups Printed- 3 Axle Vehicles

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	6	0	6	0	1	0	1	0	5	0	5	12
04:15 PM	0	0	0	0	1	2	0	3	0	0	0	0	0	3	0	3	6
04:30 PM	0	0	0	0	0	7	0	7	2	0	0	2	0	0	0	0	9
04:45 PM	0	0	0	0	0	9	0	9	0	0	0	0	0	1	0	1	10
Total	0	0	0	0	1	24	0	25	2	1	0	3	0	9	0	9	37
05:00 PM	0	0	0	0	0	4	0	4	0	0	0	0	0	2	1	3	7
05:15 PM	0	0	0	0	0	3	0	3	0	0	0	0	0	1	0	1	4
05:30 PM	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2	4
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	0	0	0	0	0	9	0	9	0	0	0	0	0	6	1	7	16
Grand Total	0	0	0	0	1	33	0	34	2	1	0	3	0	15	1	16	53
Apprch %	0	0	0		2.9	97.1	0		66.7	33.3	0		0	93.8	6.2		
Total %	0	0	0	0	1.9	62.3	0	64.2	3.8	1.9	0	5.7	0	28.3	1.9	30.2	

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	**4**	0	**4**	0	0	0	0	0	**2**	**1**	**3**	**7**
05:15 PM	0	0	0	0	0	3	0	3	0	0	0	0	0	1	0	1	4
05:30 PM	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2	4
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total Volume	0	0	0	0	0	9	0	9	0	0	0	0	0	6	1	7	16
% App. Total	0	0	0		0	100	0		0	0	0		0	85.7	14.3		
PHF	.000	.000	.000	.000	.000	.563	.000	.563	.000	.000	.000	.000	.000	.750	.250	.583	.571

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Arrow Highway
Weather: Clear

File Name : 09_IRW_Azusa Cyn_Arrow PM
Site Code : 22518834
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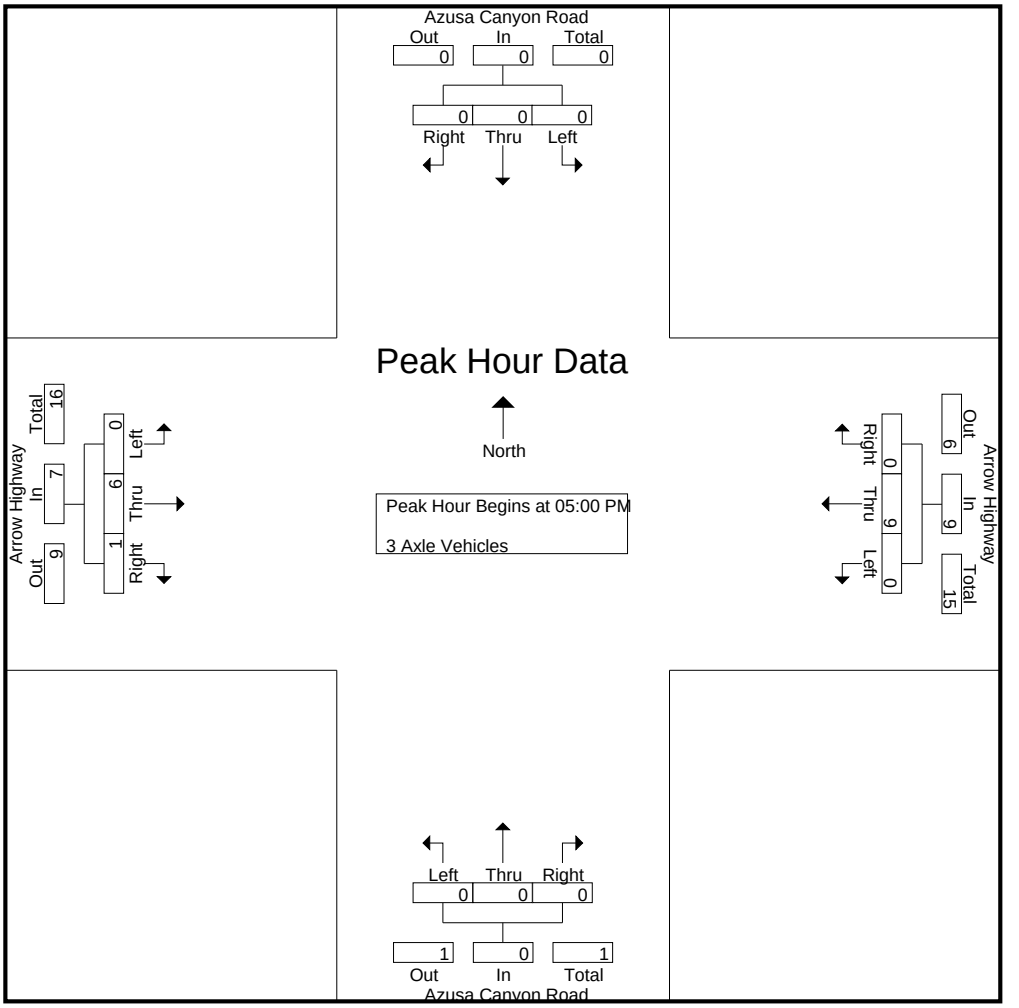

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	**4**	0	**4**	0	0	0	0	0	**2**	**1**	**3**
+15 mins.	0	0	0	0	0	3	0	3	0	0	0	0	0	1	0	1
+30 mins.	0	0	0	0	0	2	0	2	0	0	0	0	0	2	0	2
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Total Volume	0	0	0	0	0	9	0	9	0	0	0	0	0	6	1	7
% App. Total	0	0	0		0	100	0		0	0	0		0	85.7	14.3	
PHF	.000	.000	.000	.000	.000	.563	.000	.563	.000	.000	.000	.000	.000	.750	.250	.583

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Arrow Highway
Weather: Clear

File Name : 09_IRW_Azusa Cyn_Arrow PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- 4+ Axle Trucks

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	1	7	0	8	1	0	1	2	0	6	1	7	17
04:15 PM	0	0	0	0	0	2	0	2	0	0	0	0	0	4	2	6	8
04:30 PM	0	0	0	0	0	2	0	2	0	0	0	0	0	3	0	3	5
04:45 PM	0	0	0	0	0	3	0	3	0	0	1	1	0	4	0	4	8
Total	0	0	0	0	1	14	0	15	1	0	2	3	0	17	3	20	38
05:00 PM	0	0	0	0	0	3	0	3	0	0	0	0	0	2	1	3	6
05:15 PM	0	0	0	0	1	5	0	6	0	0	0	0	0	4	0	4	10
05:30 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2	3
05:45 PM	0	0	0	0	0	3	0	3	0	0	0	0	0	7	0	7	10
Total	0	0	0	0	1	12	0	13	0	0	0	0	0	15	1	16	29
Grand Total	0	0	0	0	2	26	0	28	1	0	2	3	0	32	4	36	67
Apprch %	0	0	0		7.1	92.9	0		33.3	0	66.7		0	88.9	11.1		
Total %	0	0	0	0	3	38.8	0	41.8	1.5	0	3	4.5	0	47.8	6	53.7	

	Azusa Canyon Road Southbound				Arrow Highway Westbound				Azusa Canyon Road Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	0	0	0	3	0	3	0	0	0	0	0	2	**1**	3	6
05:15 PM	0	0	0	0	**1**	**5**	0	**6**	0	0	0	0	0	4	0	4	**10**
05:30 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2	3
05:45 PM	0	0	0	0	0	3	0	3	0	0	0	0	0	**7**	0	**7**	10
Total Volume	0	0	0	0	1	12	0	13	0	0	0	0	0	15	1	16	29
% App. Total	0	0	0		7.7	92.3	0		0	0	0		0	93.8	6.2		
PHF	.000	.000	.000	.000	.250	.600	.000	.542	.000	.000	.000	.000	.000	.536	.250	.571	.725

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Arrow Highway
Weather: Clear

File Name : 09_IRW_Azusa Cyn_Arrow PM
Site Code : 22518834
Start Date : 11/1/2018
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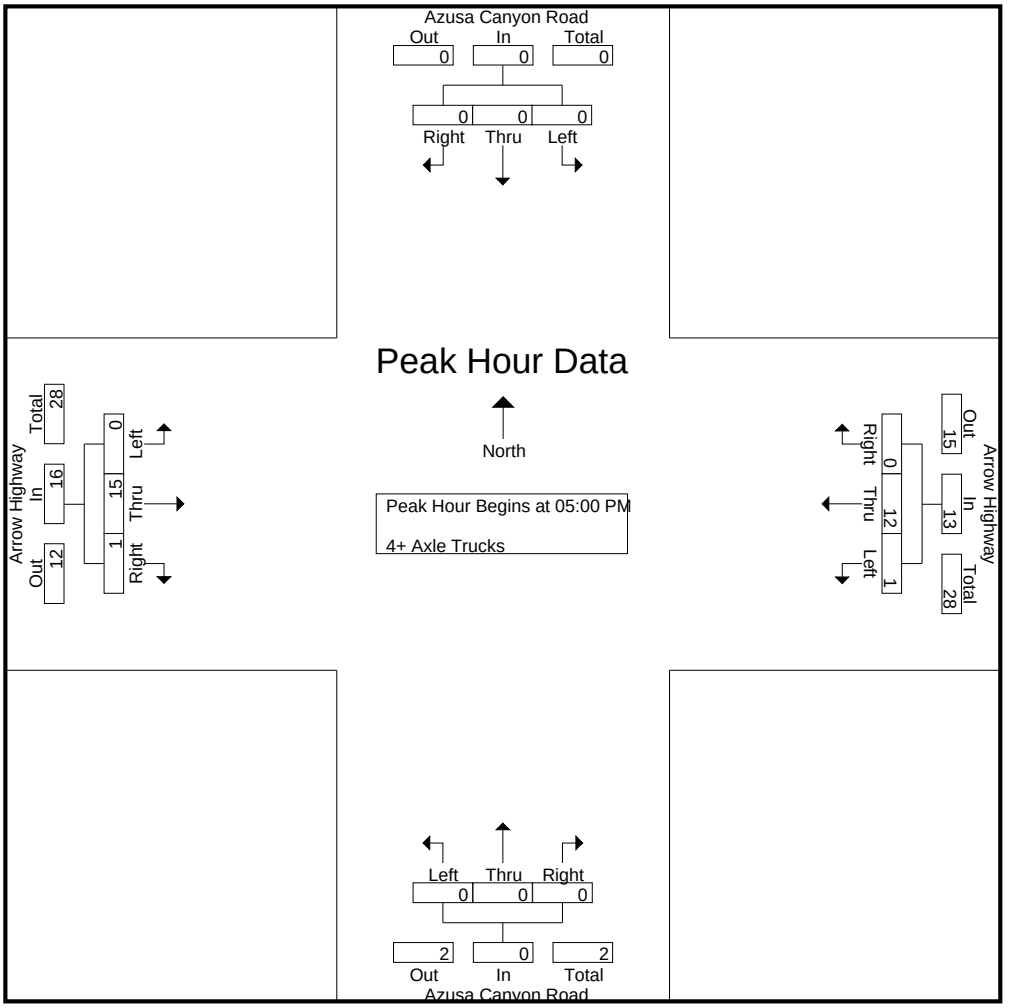

Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				05:00 PM				05:00 PM				05:00 PM			
+0 mins.	0	0	0	0	0	3	0	3	0	0	0	0	0	2	**1**	3
+15 mins.	0	0	0	0	**1**	**5**	0	**6**	0	0	0	0	0	4	0	4
+30 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2
+45 mins.	0	0	0	0	0	3	0	3	0	0	0	0	0	**7**	0	**7**
Total Volume	0	0	0	0	1	12	0	13	0	0	0	0	0	15	1	16
% App. Total	0	0	0		7.7	92.3	0		0	0	0		0	93.8	6.2	
PHF	.000	.000	.000	.000	.250	.600	.000	.542	.000	.000	.000	.000	.000	.536	.250	.571

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Sandstone Street
Weather: Clear

File Name : 10_IRW_Azusa Cyn_Sandstone AM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	30	0	30	1	265	266	4	5	9	305
07:15 AM	35	2	37	1	198	199	4	0	4	240
07:30 AM	51	2	53	0	173	173	3	1	4	230
07:45 AM	48	1	49	1	176	177	3	0	3	229
Total	164	5	169	3	812	815	14	6	20	1004
08:00 AM	51	1	52	0	128	128	3	2	5	185
08:15 AM	41	2	43	1	127	128	3	0	3	174
08:30 AM	33	0	33	0	93	93	2	2	4	130
08:45 AM	43	0	43	0	99	99	1	0	1	143
Total	168	3	171	1	447	448	9	4	13	632
Grand Total	332	8	340	4	1259	1263	23	10	33	1636
Apprch %	97.6	2.4		0.3	99.7		69.7	30.3		
Total %	20.3	0.5	20.8	0.2	77	77.2	1.4	0.6	2	
Passenger Vehicles	299	7	306	4	1212	1216	23	8	31	1553
% Passenger Vehicles	90.1	87.5	90	100	96.3	96.3	100	80	93.9	94.9
Large 2 Axle Vehicles	21	1	22	0	35	35	0	2	2	59
% Large 2 Axle Vehicles	6.3	12.5	6.5	0	2.8	2.8	0	20	6.1	3.6
3 Axle Vehicles	5	0	5	0	5	5	0	0	0	10
% 3 Axle Vehicles	1.5	0	1.5	0	0.4	0.4	0	0	0	0.6
4+ Axle Trucks	7	0	7	0	7	7	0	0	0	14
% 4+ Axle Trucks	2.1	0	2.1	0	0.6	0.6	0	0	0	0.9

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	30	0	30	**1**	**265**	**266**	**4**	**5**	**9**	**305**
07:15 AM	35	**2**	37	1	198	199	4	0	4	240
07:30 AM	**51**	2	**53**	0	173	173	3	1	4	230
07:45 AM	48	1	49	1	176	177	3	0	3	229
Total Volume	164	5	169	3	812	815	14	6	20	1004
% App. Total	97	3		0.4	99.6		70	30		
PHF	.804	.625	.797	.750	.766	.766	.875	.300	.556	.823

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Sandstone Street
Weather: Clear

File Name : 10_IRW_Azusa Cyn_Sandstone AM
Site Code : 22518834
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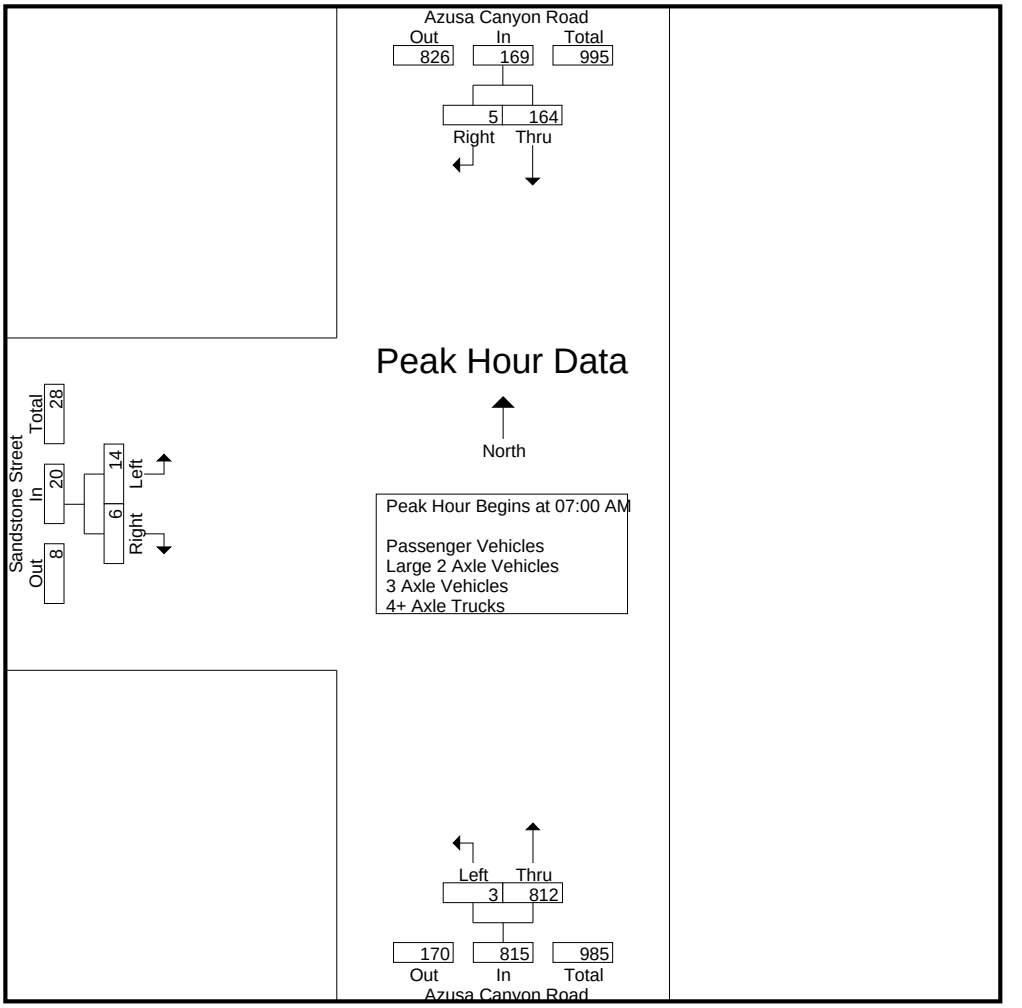

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:00 AM			07:00 AM		
+0 mins.	**51**	**2**	**53**	**1**	**265**	**266**	**4**	**5**	**9**
+15 mins.	48	1	49	1	198	199	4	0	4
+30 mins.	51	1	52	0	173	173	3	1	4
+45 mins.	41	2	43	1	176	177	3	0	3
Total Volume	191	6	197	3	812	815	14	6	20
% App. Total	97	3		0.4	99.6		70	30	
PHF	.936	.750	.929	.750	.766	.766	.875	.300	.556

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Sandstone Street
Weather: Clear

File Name : 10_IRW_Azusa Cyn_Sandstone AM
Site Code : 22518834
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Groups Printed- Passenger Vehicles

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	26	0	26	1	260	261	4	4	8	295
07:15 AM	35	2	37	1	193	194	4	0	4	235
07:30 AM	48	2	50	0	171	171	3	1	4	225
07:45 AM	48	1	49	1	165	166	3	0	3	218
Total	157	5	162	3	789	792	14	5	19	973
08:00 AM	44	1	45	0	125	125	3	1	4	174
08:15 AM	36	1	37	1	118	119	3	0	3	159
08:30 AM	27	0	27	0	87	87	2	2	4	118
08:45 AM	35	0	35	0	93	93	1	0	1	129
Total	142	2	144	1	423	424	9	3	12	580
Grand Total	299	7	306	4	1212	1216	23	8	31	1553
Apprch %	97.7	2.3		0.3	99.7		74.2	25.8		
Total %	19.3	0.5	19.7	0.3	78	78.3	1.5	0.5	2	

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	26	0	26	**1**	**260**	**261**	**4**	**4**	**8**	**295**
07:15 AM	35	**2**	37	1	193	194	4	0	4	235
07:30 AM	**48**	2	**50**	0	171	171	3	1	4	225
07:45 AM	48	1	49	1	165	166	3	0	3	218
Total Volume	157	5	162	3	789	792	14	5	19	973
% App. Total	96.9	3.1		0.4	99.6		73.7	26.3		
PHF	.818	.625	.810	.750	.759	.759	.875	.313	.594	.825

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Sandstone Street
Weather: Clear

File Name : 10_IRW_Azusa Cyn_Sandstone AM
Site Code : 22518834
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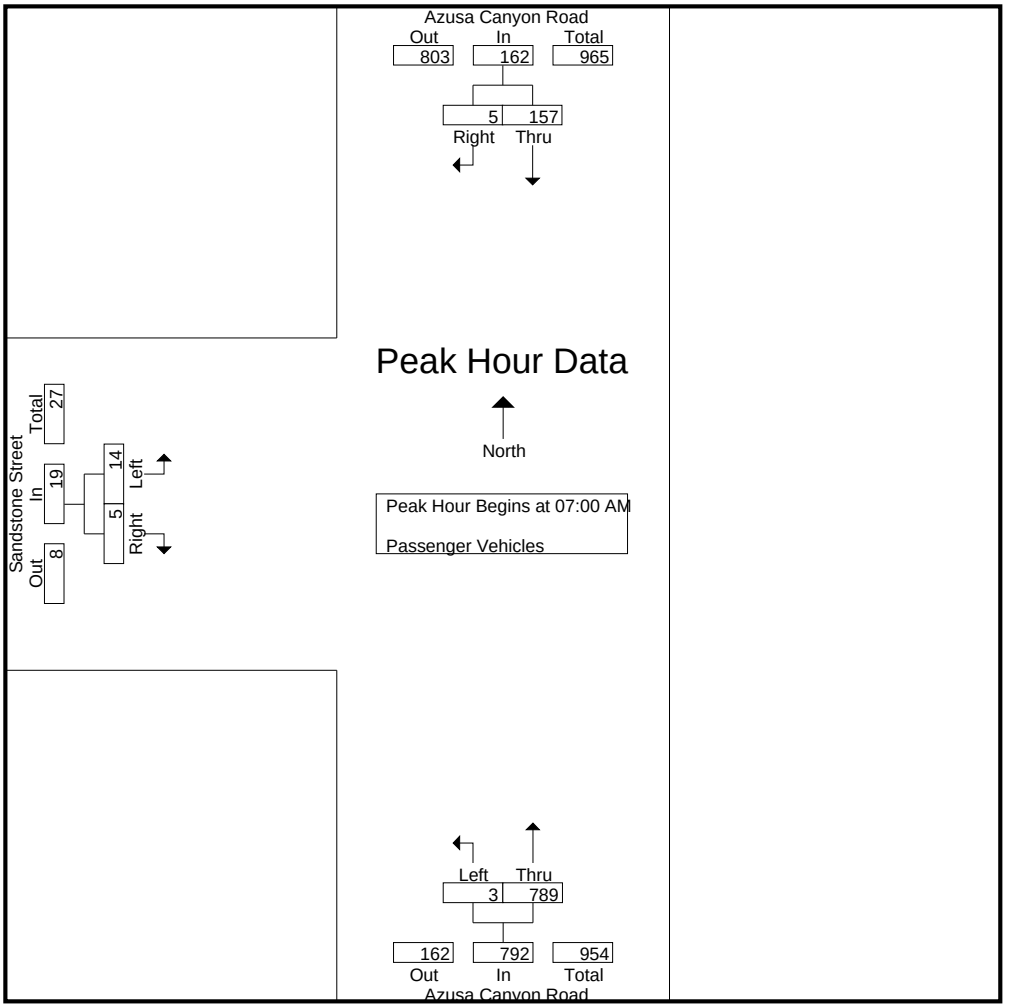

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	26	0	26	**1**	**260**	**261**	**4**	**4**	**8**
+15 mins.	35	**2**	37	1	193	194	4	0	4
+30 mins.	**48**	2	**50**	0	171	171	3	1	4
+45 mins.	48	1	49	1	165	166	3	0	3
Total Volume	157	5	162	3	789	792	14	5	19
% App. Total	96.9	3.1		0.4	99.6		73.7	26.3	
PHF	.818	.625	.810	.750	.759	.759	.875	.313	.594

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Sandstone Street
Weather: Clear

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Groups Printed- Large 2 Axle Vehicles

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	2	0	2	0	3	3	0	1	1	6
07:15 AM	0	0	0	0	5	5	0	0	0	5
07:30 AM	3	0	3	0	2	2	0	0	0	5
07:45 AM	0	0	0	0	8	8	0	0	0	8
Total	5	0	5	0	18	18	0	1	1	24
08:00 AM	5	0	5	0	3	3	0	1	1	9
08:15 AM	3	1	4	0	7	7	0	0	0	11
08:30 AM	2	0	2	0	3	3	0	0	0	5
08:45 AM	6	0	6	0	4	4	0	0	0	10
Total	16	1	17	0	17	17	0	1	1	35
Grand Total	21	1	22	0	35	35	0	2	2	59
Apprch %	95.5	4.5		0	100		0	100		
Total %	35.6	1.7	37.3	0	59.3	59.3	0	3.4	3.4	

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	2	0	2	0	3	3	0	**1**	**1**	6
07:15 AM	0	0	0	0	5	5	0	0	0	5
07:30 AM	**3**	0	**3**	0	2	2	0	0	0	5
07:45 AM	0	0	0	0	**8**	**8**	0	0	0	**8**
Total Volume	5	0	5	0	18	18	0	1	1	24
% App. Total	100	0		0	100		0	100		
PHF	.417	.000	.417	.000	.563	.563	.000	.250	.250	.750

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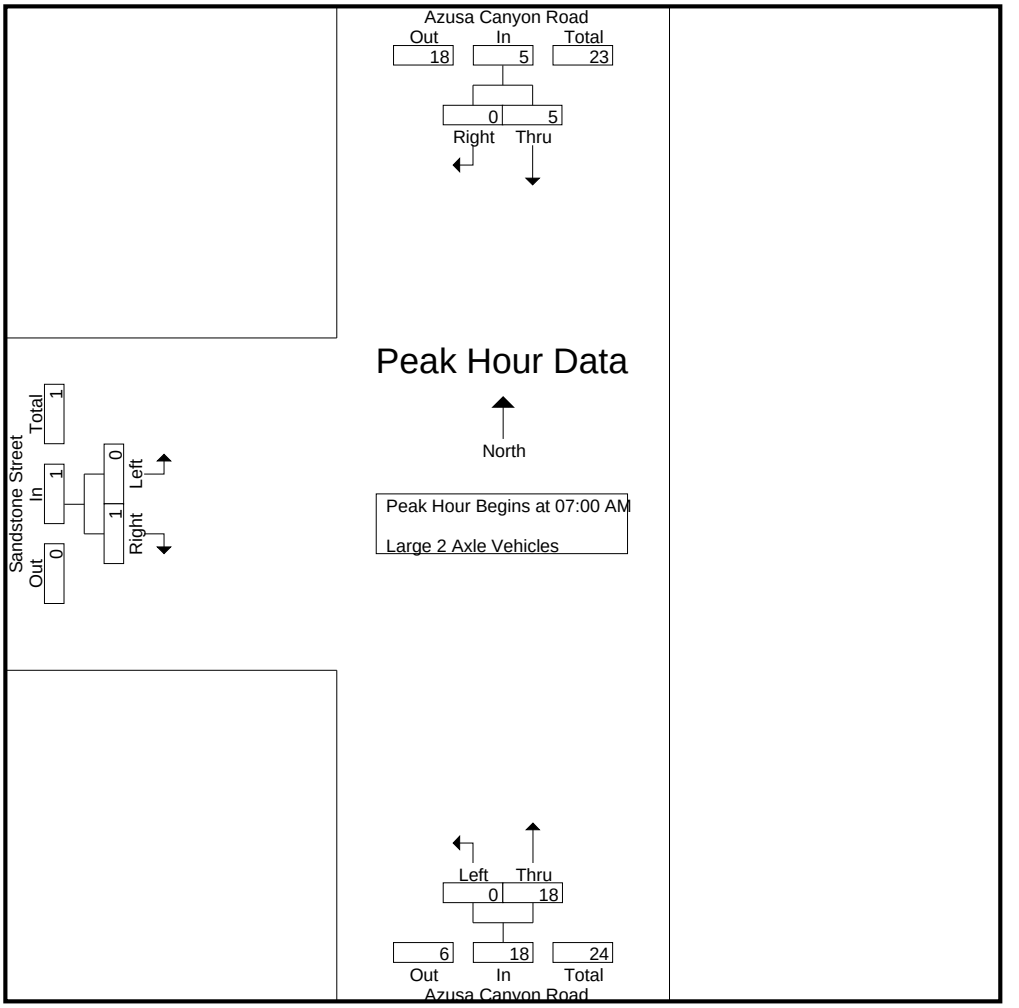
City of Irwindale
N/S: Azusa Canyon Road
E/W: Sandstone Street
Weather: Clear

File Name : 10_IRW_Azusa Cyn_Sandstone AM
Site Code : 22518834
Start Date : 11/1/2018



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	2	0	2	0	3	3	0	**1**	**1**
+15 mins.	0	0	0	0	5	5	0	0	0
+30 mins.	**3**	0	**3**	0	2	2	0	0	0
+45 mins.	0	0	0	0	**8**	**8**	0	0	0
Total Volume	5	0	5	0	18	18	0	1	1
% App. Total	100	0		0	100		0	100	
PHF	.417	.000	.417	.000	.563	.563	.000	.250	.250

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Sandstone Street
Weather: Clear

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Groups Printed- 3 Axle Vehicles

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	1	1	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	1	0	0	0	1
08:00 AM	1	0	1	0	0	0	0	0	0	1
08:15 AM	1	0	1	0	1	1	0	0	0	2
08:30 AM	2	0	2	0	2	2	0	0	0	4
08:45 AM	1	0	1	0	1	1	0	0	0	2
Total	5	0	5	0	4	4	0	0	0	9
Grand Total	5	0	5	0	5	5	0	0	0	10
Apprch %	100	0		0	100		0	0		
Total %	50	0	50	0	50	50	0	0	0	

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	0	0	0	0	**1**	**1**	0	0	0	**1**
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	1	1	0	0	0	1
% App. Total	0	0		0	100		0	0		
PHF	.000	.000	.000	.000	.250	.250	.000	.000	.000	.250

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Sandstone Street
Weather: Clear

File Name : 10_IRW_Azusa Cyn_Sandstone AM
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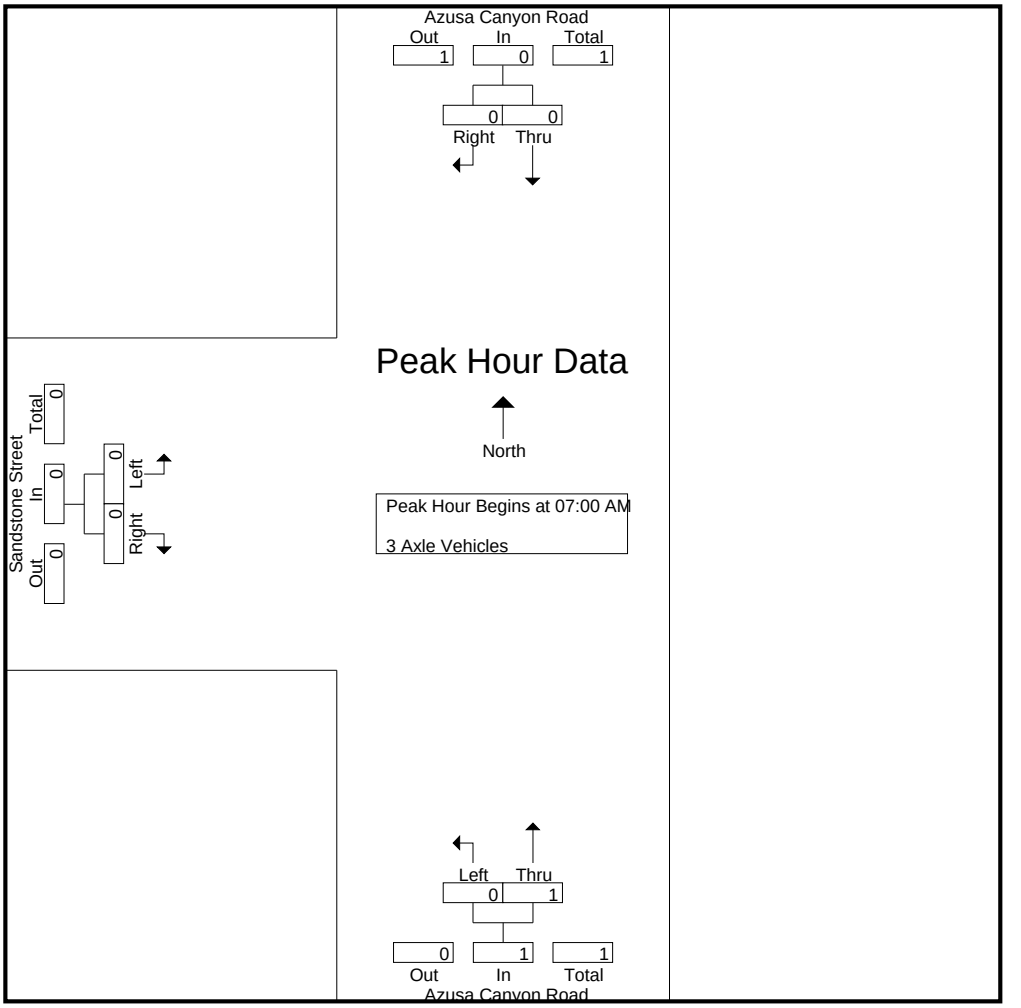

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	0	0	0	**1**	**1**	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	1	1	0	0	0
% App. Total	0	0		0	100		0	0	
PHF	.000	.000	.000	.000	.250	.250	.000	.000	.000

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City of Irwindale
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E/W: Sandstone Street
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Groups Printed- 4+ Axle Trucks

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
07:00 AM	2	0	2	0	1	1	0	0	0	3
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	3	3	0	0	0	3
Total	2	0	2	0	4	4	0	0	0	6
08:00 AM	1	0	1	0	0	0	0	0	0	1
08:15 AM	1	0	1	0	1	1	0	0	0	2
08:30 AM	2	0	2	0	1	1	0	0	0	3
08:45 AM	1	0	1	0	1	1	0	0	0	2
Total	5	0	5	0	3	3	0	0	0	8
Grand Total	7	0	7	0	7	7	0	0	0	14
Apprch %	100	0		0	100		0	0		
Total %	50	0	50	0	50	50	0	0	0	

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	**2**	0	**2**	0	1	1	0	0	0	**3**
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	**3**	**3**	0	0	0	3
Total Volume	2	0	2	0	4	4	0	0	0	6
% App. Total	100	0		0	100		0	0		
PHF	.250	.000	.250	.000	.333	.333	.000	.000	.000	.500

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City of Irwindale
N/S: Azusa Canyon Road
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Weather: Clear

File Name : 10_IRW_Azusa Cyn_Sandstone AM
Site Code : 22518834
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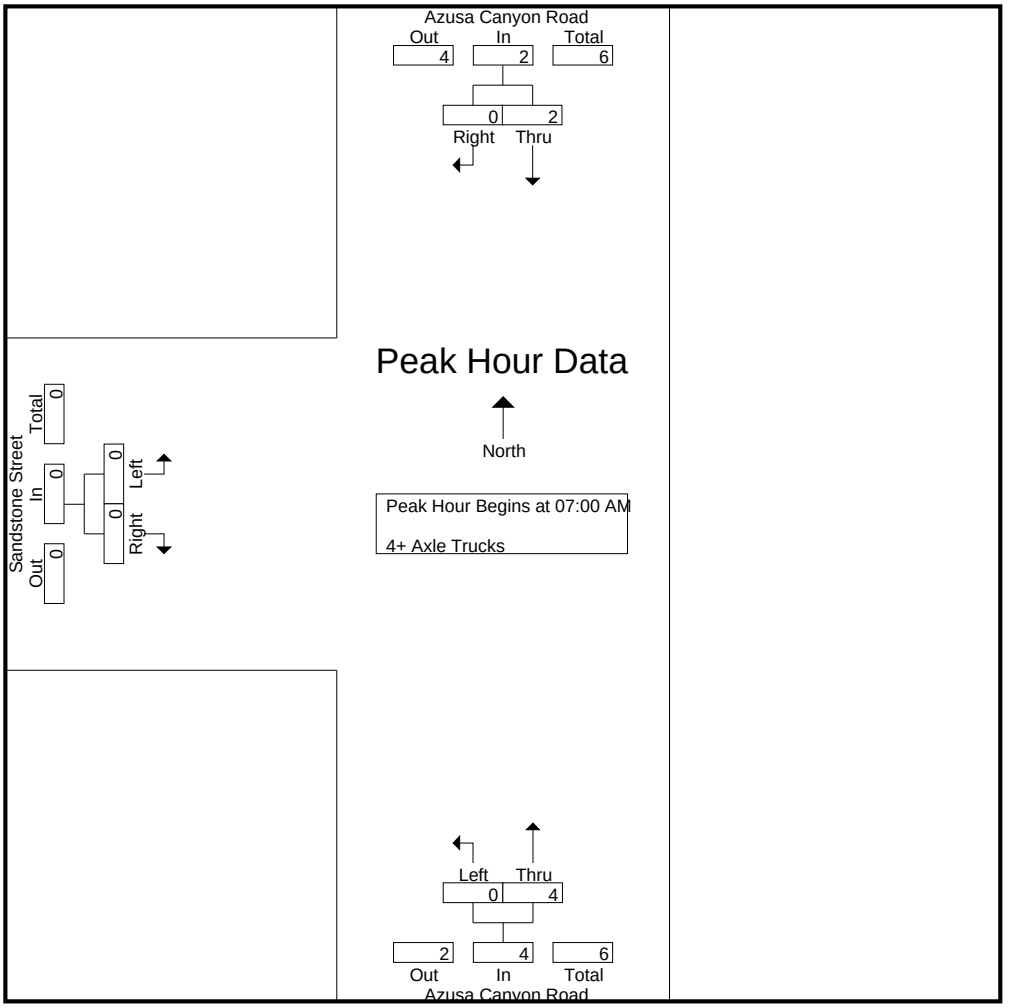

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	**2**	0	**2**	0	1	1	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	**3**	**3**	0	0	0
Total Volume	2	0	2	0	4	4	0	0	0
% App. Total	100	0		0	100		0	0	
PHF	.250	.000	.250	.000	.333	.333	.000	.000	.000

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City of Irwindale
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	120	3	123	1	100	101	1	2	3	227
04:15 PM	104	3	107	4	85	89	4	0	4	200
04:30 PM	118	2	120	1	82	83	2	2	4	207
04:45 PM	120	6	126	2	82	84	2	0	2	212
Total	462	14	476	8	349	357	9	4	13	846
05:00 PM	105	2	107	0	89	89	2	1	3	199
05:15 PM	105	2	107	4	89	93	3	2	5	205
05:30 PM	119	1	120	2	105	107	2	2	4	231
05:45 PM	118	2	120	4	75	79	1	2	3	202
Total	447	7	454	10	358	368	8	7	15	837
Grand Total	909	21	930	18	707	725	17	11	28	1683
Apprch %	97.7	2.3		2.5	97.5		60.7	39.3		
Total %	54	1.2	55.3	1.1	42	43.1	1	0.7	1.7	
Passenger Vehicles	879	20	899	17	683	700	16	11	27	1626
% Passenger Vehicles	96.7	95.2	96.7	94.4	96.6	96.6	94.1	100	96.4	96.6
Large 2 Axle Vehicles	22	1	23	1	19	20	1	0	1	44
% Large 2 Axle Vehicles	2.4	4.8	2.5	5.6	2.7	2.8	5.9	0	3.6	2.6
3 Axle Vehicles	2	0	2	0	2	2	0	0	0	4
% 3 Axle Vehicles	0.2	0	0.2	0	0.3	0.3	0	0	0	0.2
4+ Axle Trucks	6	0	6	0	3	3	0	0	0	9
% 4+ Axle Trucks	0.7	0	0.6	0	0.4	0.4	0	0	0	0.5

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	**120**	**6**	**126**	2	82	84	2	0	2	212
05:00 PM	105	2	107	0	89	89	2	1	3	199
05:15 PM	105	2	107	**4**	89	93	**3**	**2**	**5**	205
05:30 PM	119	1	120	2	**105**	**107**	2	2	4	**231**
Total Volume	449	11	460	8	365	373	9	5	14	847
% App. Total	97.6	2.4		2.1	97.9		64.3	35.7		
PHF	.935	.458	.913	.500	.869	.871	.750	.625	.700	.917

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City of Irwindale
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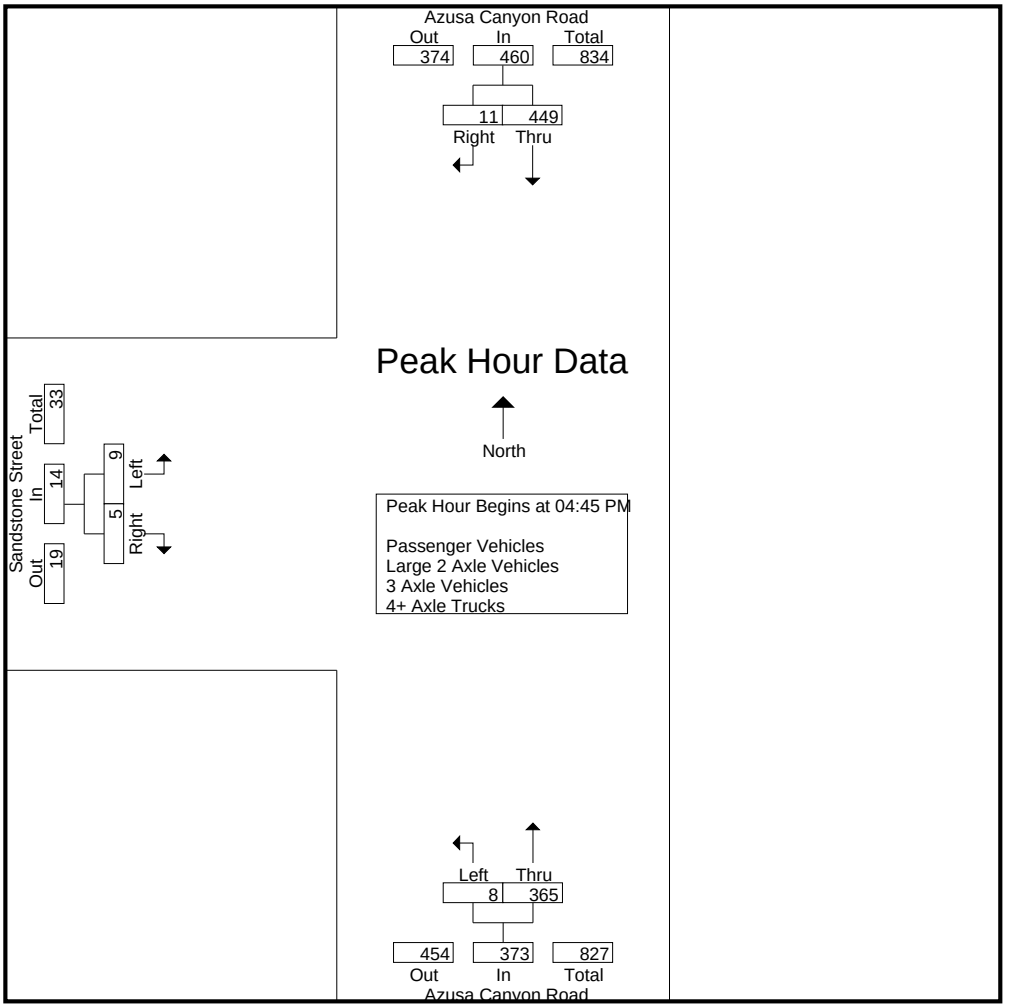

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM			04:45 PM			05:00 PM		
+0 mins.	**120**	3	123	2	82	84	2	1	3
+15 mins.	104	3	107	0	89	89	**3**	**2**	**5**
+30 mins.	118	2	120	**4**	89	93	2	2	4
+45 mins.	120	**6**	**126**	2	**105**	**107**	1	2	3
Total Volume	462	14	476	8	365	373	8	7	15
% App. Total	97.1	2.9		2.1	97.9		53.3	46.7	
PHF	.963	.583	.944	.500	.869	.871	.667	.875	.750

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City of Irwindale
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Groups Printed- Passenger Vehicles

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	117	3	120	1	96	97	1	2	3	220
04:15 PM	99	3	102	4	82	86	4	0	4	192
04:30 PM	112	2	114	1	75	76	2	2	4	194
04:45 PM	115	5	120	2	81	83	2	0	2	205
Total	443	13	456	8	334	342	9	4	13	811
05:00 PM	100	2	102	0	83	83	1	1	2	187
05:15 PM	102	2	104	3	89	92	3	2	5	201
05:30 PM	118	1	119	2	104	106	2	2	4	229
05:45 PM	116	2	118	4	73	77	1	2	3	198
Total	436	7	443	9	349	358	7	7	14	815
Grand Total	879	20	899	17	683	700	16	11	27	1626
Apprch %	97.8	2.2		2.4	97.6		59.3	40.7		
Total %	54.1	1.2	55.3	1	42	43.1	1	0.7	1.7	

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	115	**5**	**120**	2	81	83	2	0	2	205
05:00 PM	100	2	102	0	83	83	1	1	2	187
05:15 PM	102	2	104	**3**	89	92	**3**	**2**	**5**	201
05:30 PM	**118**	1	119	2	**104**	**106**	2	2	4	**229**
Total Volume	435	10	445	7	357	364	8	5	13	822
% App. Total	97.8	2.2		1.9	98.1		61.5	38.5		
PHF	.922	.500	.927	.583	.858	.858	.667	.625	.650	.897

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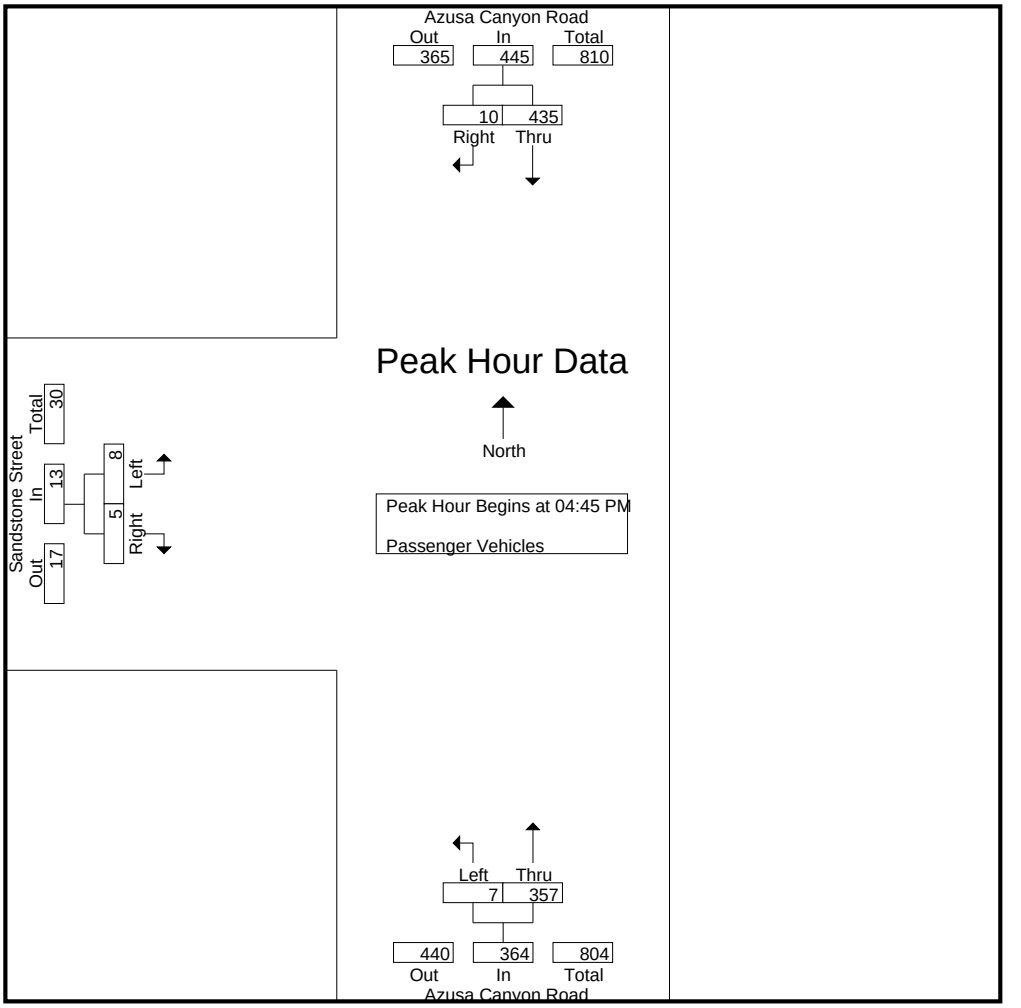
City of Irwindale
N/S: Azusa Canyon Road
E/W: Sandstone Street
Weather: Clear

File Name : 10_IRW_Azusa Cyn_Sandstone PM
Site Code : 22518834
Start Date : 11/1/2018



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	115	**5**	**120**	2	81	83	2	0	2
+15 mins.	100	2	102	0	83	83	1	1	2
+30 mins.	102	2	104	**3**	89	92	**3**	**2**	**5**
+45 mins.	**118**	1	119	2	**104**	**106**	2	2	4
Total Volume	435	10	445	7	357	364	8	5	13
% App. Total	97.8	2.2		1.9	98.1		61.5	38.5	
PHF	.922	.500	.927	.583	.858	.858	.667	.625	.650

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Sandstone Street
Weather: Clear

File Name : 10_IRW_Azusa Cyn_Sandstone PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	1	0	1	0	2	2	0	0	0	3
04:15 PM	2	0	2	0	3	3	0	0	0	5
04:30 PM	6	0	6	0	5	5	0	0	0	11
04:45 PM	5	1	6	0	0	0	0	0	0	6
Total	14	1	15	0	10	10	0	0	0	25
05:00 PM	3	0	3	0	6	6	1	0	1	10
05:15 PM	2	0	2	1	0	1	0	0	0	3
05:30 PM	1	0	1	0	1	1	0	0	0	2
05:45 PM	2	0	2	0	2	2	0	0	0	4
Total	8	0	8	1	9	10	1	0	1	19
Grand Total	22	1	23	1	19	20	1	0	1	44
Apprch %	95.7	4.3		5	95		100	0		
Total %	50	2.3	52.3	2.3	43.2	45.5	2.3	0	2.3	

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	**5**	**1**	**6**	0	0	0	0	0	0	6
05:00 PM	3	0	3	0	**6**	**6**	**1**	0	**1**	**10**
05:15 PM	2	0	2	**1**	0	1	0	0	0	3
05:30 PM	1	0	1	0	1	1	0	0	0	2
Total Volume	11	1	12	1	7	8	1	0	1	21
% App. Total	91.7	8.3		12.5	87.5		100	0		
PHF	.550	.250	.500	.250	.292	.333	.250	.000	.250	.525

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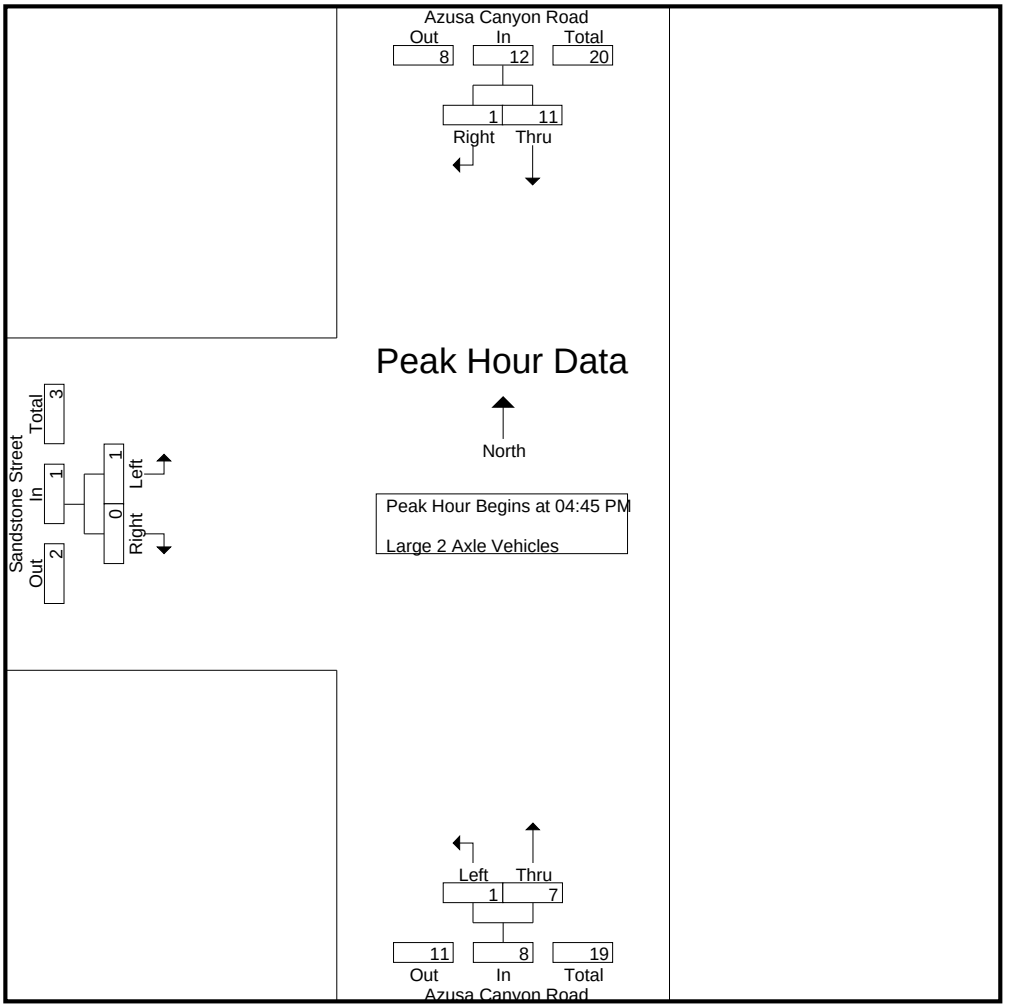
City of Irwindale
N/S: Azusa Canyon Road
E/W: Sandstone Street
Weather: Clear

File Name : 10_IRW_Azusa Cyn_Sandstone PM
Site Code : 22518834
Start Date : 11/1/2018



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	**5**	**1**	**6**	0	0	0	0	0	0
+15 mins.	3	0	3	0	**6**	**6**	**1**	0	**1**
+30 mins.	2	0	2	**1**	0	1	0	0	0
+45 mins.	1	0	1	0	1	1	0	0	0
Total Volume	11	1	12	1	7	8	1	0	1
% App. Total	91.7	8.3		12.5	87.5		100	0	
PHF	.550	.250	.500	.250	.292	.333	.250	.000	.250

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Sandstone Street
Weather: Clear

File Name : 10_IRW_Azusa Cyn_Sandstone PM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- 3 Axle Vehicles

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	1	1	0	0	0	1
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	1	1	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	2	2	0	0	0	2
05:00 PM	1	0	1	0	0	0	0	0	0	1
05:15 PM	1	0	1	0	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	2	0	2	0	0	0	0	0	0	2
Grand Total	2	0	2	0	2	2	0	0	0	4
Apprch %	100	0		0	100		0	0		
Total %	50	0	50	0	50	50	0	0	0	

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	0	0	0	0	0	0	0	0	0	0
05:00 PM	**1**	0	**1**	0	0	0	0	0	0	**1**
05:15 PM	1	0	1	0	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	2	0	2	0	0	0	0	0	0	2
% App. Total	100	0		0	0		0	0		
PHF	.500	.000	.500	.000	.000	.000	.000	.000	.000	.500

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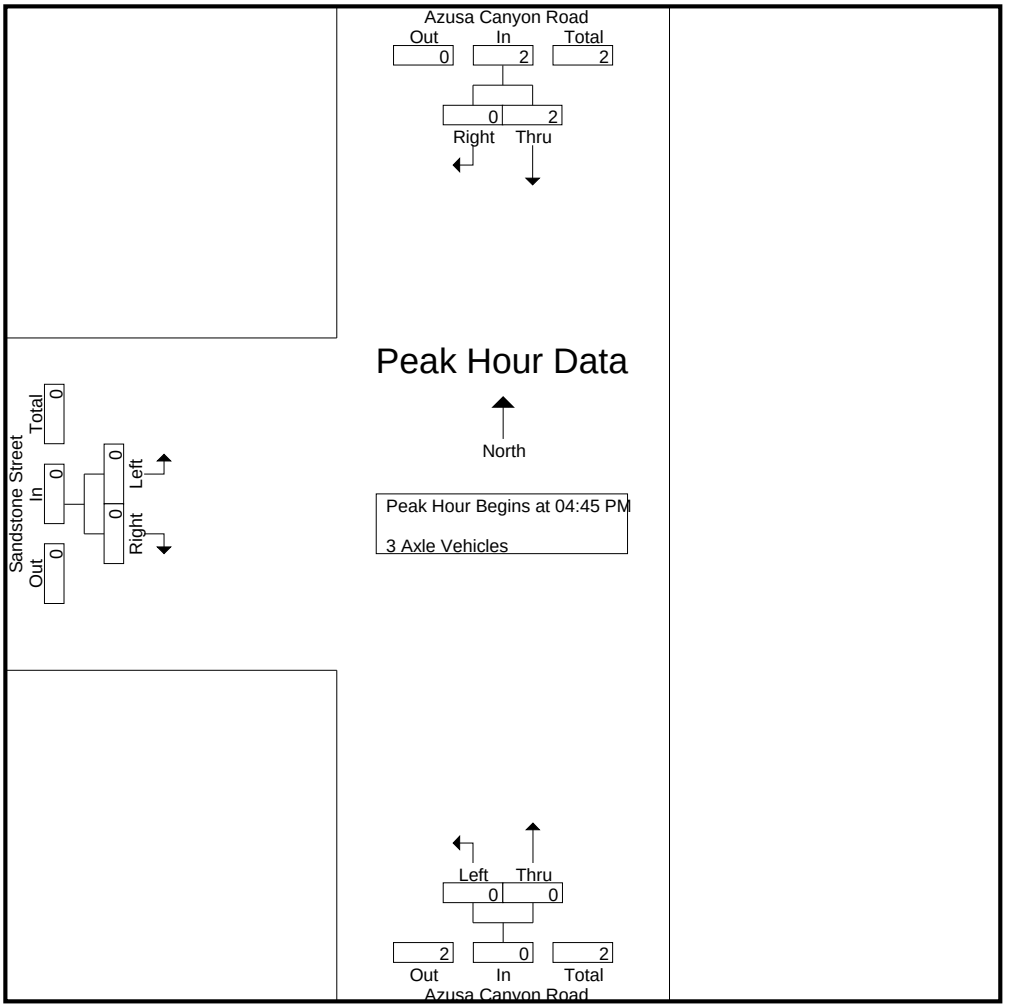
City of Irwindale
N/S: Azusa Canyon Road
E/W: Sandstone Street
Weather: Clear

File Name : 10_IRW_Azusa Cyn_Sandstone PM
Site Code : 22518834
Start Date : 11/1/2018



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	**1**	0	**1**	0	0	0	0	0	0
+30 mins.	1	0	1	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	2	0	2	0	0	0	0	0	0
% App. Total	100	0		0	0		0	0	
PHF	.500	.000	.500	.000	.000	.000	.000	.000	.000

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City of Irwindale
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E/W: Sandstone Street
Weather: Clear

File Name : 10_IRW_Azusa Cyn_Sandstone PM
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Groups Printed- 4+ Axle Trucks

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
04:00 PM	2	0	2	0	1	1	0	0	0	3
04:15 PM	3	0	3	0	0	0	0	0	0	3
04:30 PM	0	0	0	0	1	1	0	0	0	1
04:45 PM	0	0	0	0	1	1	0	0	0	1
Total	5	0	5	0	3	3	0	0	0	8
05:00 PM	1	0	1	0	0	0	0	0	0	1
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	1	0	1	0	0	0	0	0	0	1
Grand Total	6	0	6	0	3	3	0	0	0	9
Apprch %	100	0		0	100		0	0		
Total %	66.7	0	66.7	0	33.3	33.3	0	0	0	

	Azusa Canyon Road Southbound			Azusa Canyon Road Northbound			Sandstone Street Eastbound			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	0	0	0	0	**1**	**1**	0	0	0	**1**
05:00 PM	**1**	0	**1**	0	0	0	0	0	0	1
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	1	0	1	0	1	1	0	0	0	2
% App. Total	100	0		0	100		0	0		
PHF	.250	.000	.250	.000	.250	.250	.000	.000	.000	.500

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Weather: Clear

File Name : 10_IRW_Azusa Cyn_Sandstone PM
Site Code : 22518834
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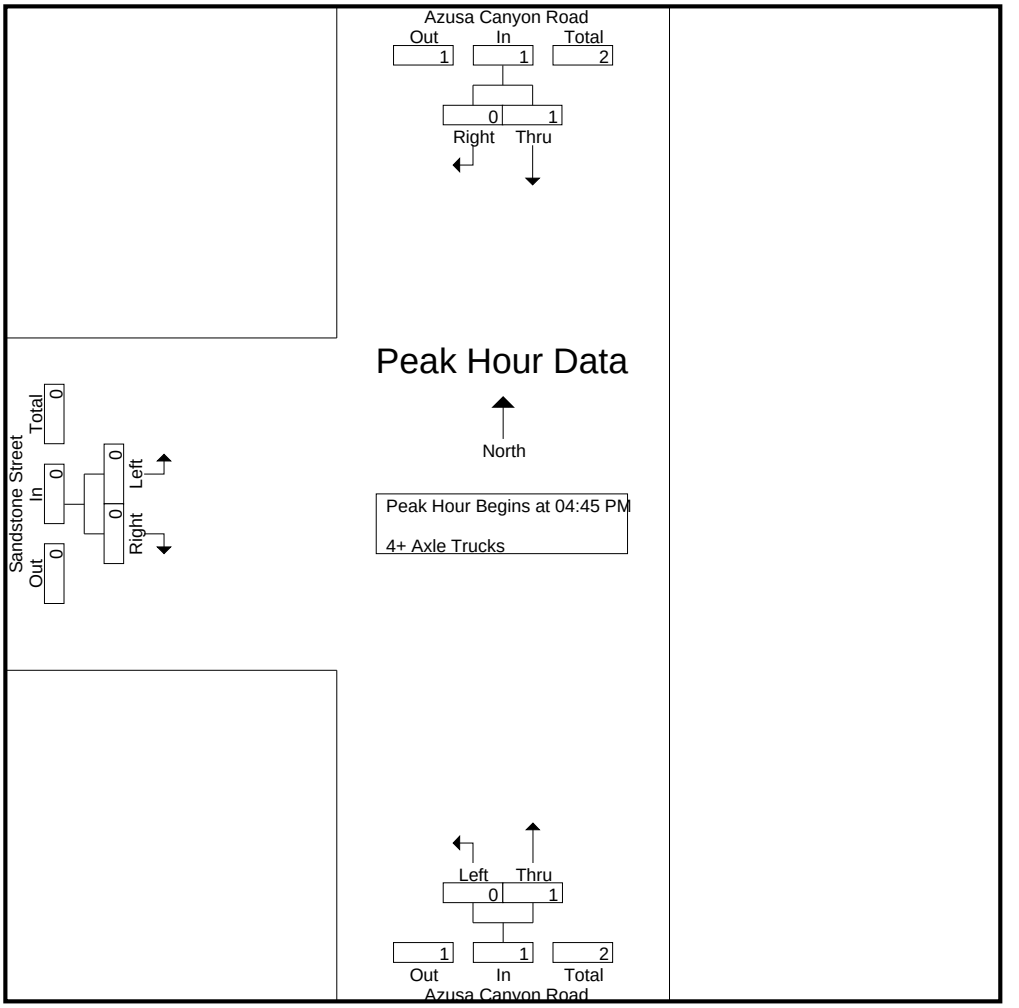

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	0	0	0	0	**1**	**1**	0	0	0
+15 mins.	**1**	0	**1**	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	1	0	1	0	1	1	0	0	0
% App. Total	100	0		0	100		0	0	
PHF	.250	.000	.250	.000	.250	.250	.000	.000	.000

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	28	6	34	0	0	0	0	14	267	5	286	7	0	12	19	339
07:15 AM	0	32	4	36	0	0	0	0	12	194	9	215	2	0	14	16	267
07:30 AM	4	46	2	52	0	0	0	0	20	170	7	197	5	0	15	20	269
07:45 AM	1	38	4	43	2	0	1	3	14	162	2	178	6	0	11	17	241
Total	5	144	16	165	2	0	1	3	60	793	23	876	20	0	52	72	1116
08:00 AM	0	57	1	58	3	0	0	3	23	131	0	154	5	0	14	19	234
08:15 AM	0	34	5	39	8	0	2	10	13	115	0	128	10	0	8	18	195
08:30 AM	0	28	10	38	3	0	2	5	9	95	1	105	4	0	8	12	160
08:45 AM	0	47	2	49	0	0	0	0	8	97	0	105	3	0	11	14	168
Total	0	166	18	184	14	0	4	18	53	438	1	492	22	0	41	63	757
Grand Total	5	310	34	349	16	0	5	21	113	1231	24	1368	42	0	93	135	1873
Apprch %	1.4	88.8	9.7		76.2	0	23.8		8.3	90	1.8		31.1	0	68.9		
Total %	0.3	16.6	1.8	18.6	0.9	0	0.3	1.1	6	65.7	1.3	73	2.2	0	5	7.2	
Passenger Vehicles	5	288	26	319	13	0	3	16	105	1195	24	1324	40	0	88	128	1787
% Passenger Vehicles	100	92.9	76.5	91.4	81.2	0	60	76.2	92.9	97.1	100	96.8	95.2	0	94.6	94.8	95.4
Large 2 Axle Vehicles	0	14	6	20	3	0	2	5	8	21	0	29	2	0	5	7	61
% Large 2 Axle Vehicles	0	4.5	17.6	5.7	18.8	0	40	23.8	7.1	1.7	0	2.1	4.8	0	5.4	5.2	3.3
3 Axle Vehicles	0	3	1	4	0	0	0	0	0	7	0	7	0	0	0	0	11
% 3 Axle Vehicles	0	1	2.9	1.1	0	0	0	0	0	0.6	0	0.5	0	0	0	0	0.6
4+ Axle Trucks	0	5	1	6	0	0	0	0	0	8	0	8	0	0	0	0	14
% 4+ Axle Trucks	0	1.6	2.9	1.7	0	0	0	0	0	0.6	0	0.6	0	0	0	0	0.7

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	0	28	**6**	34	0	0	0	0	14	**267**	5	**286**	**7**	0	12	19	**339**
07:15 AM	0	32	4	36	0	0	0	0	12	194	**9**	215	2	0	14	16	267
07:30 AM	**4**	**46**	2	**52**	0	0	0	0	**20**	170	7	197	5	0	**15**	**20**	269
07:45 AM	1	38	4	43	**2**	0	**1**	**3**	14	162	2	178	6	0	11	17	241
Total Volume	5	144	16	165	2	0	1	3	60	793	23	876	20	0	52	72	1116
% App. Total	3	87.3	9.7		66.7	0	33.3		6.8	90.5	2.6		27.8	0	72.2		
PHF	.313	.783	.667	.793	.250	.000	.250	.250	.750	.743	.639	.766	.714	.000	.867	.900	.823

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City of Irwindale
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Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia AM
Site Code : 22518834
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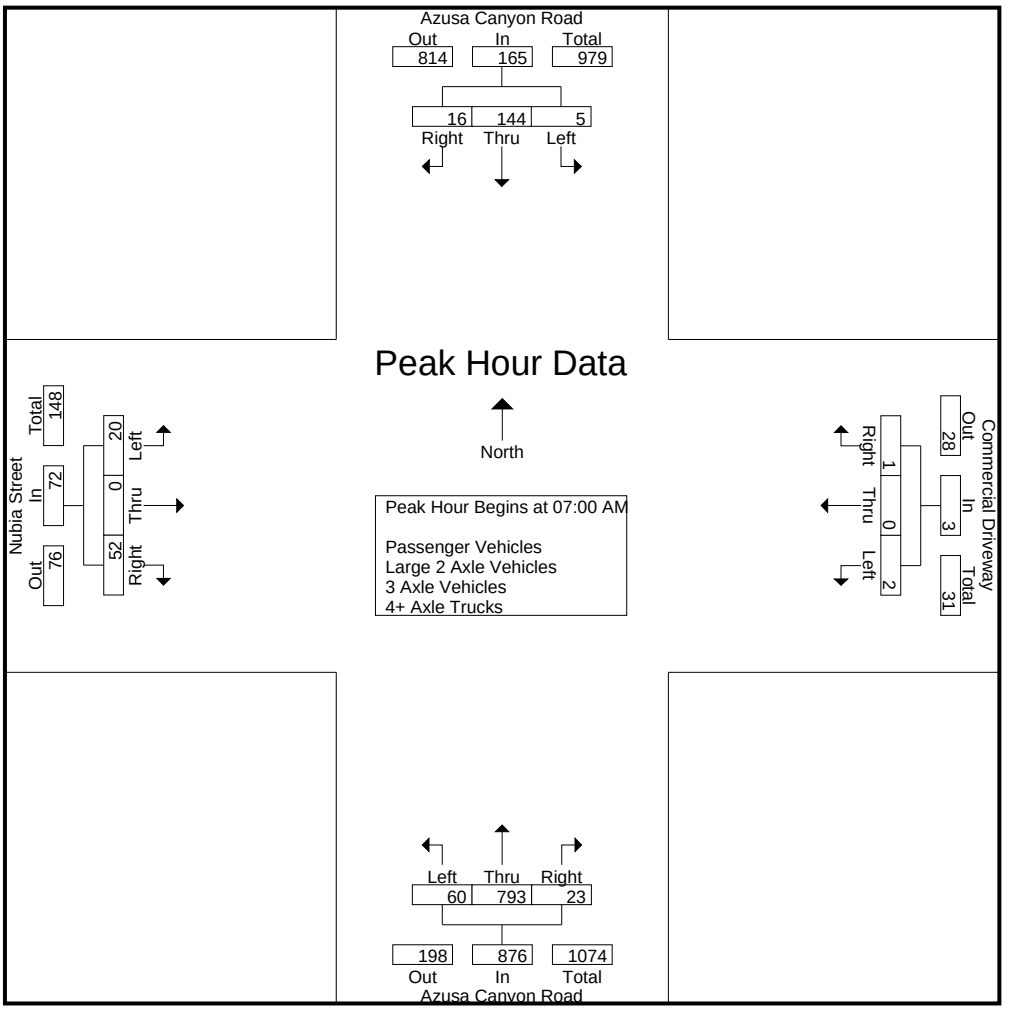

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:45 AM				07:00 AM				07:30 AM			
+0 mins.	**4**	46	2	52	2	0	1	3	14	**267**	5	**286**	5	0	**15**	**20**
+15 mins.	1	38	4	43	3	0	0	3	12	194	**9**	215	6	0	11	17
+30 mins.	0	**57**	1	**58**	**8**	0	**2**	**10**	**20**	170	7	197	5	0	14	19
+45 mins.	0	34	**5**	39	3	0	2	5	14	162	2	178	**10**	0	8	18
Total Volume	5	175	12	192	16	0	5	21	60	793	23	876	26	0	48	74
% App. Total	2.6	91.1	6.2		76.2	0	23.8		6.8	90.5	2.6		35.1	0	64.9	
PHF	.313	.768	.600	.828	.500	.000	.625	.525	.750	.743	.639	.766	.650	.000	.800	.925

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City of Irwindale
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E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia AM
Site Code : 22518834
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Groups Printed- Passenger Vehicles

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	26	5	31	0	0	0	0	11	263	5	279	6	0	9	15	325
07:15 AM	0	32	4	36	0	0	0	0	12	189	9	210	2	0	14	16	262
07:30 AM	4	45	2	51	0	0	0	0	20	169	7	196	5	0	15	20	267
07:45 AM	1	38	4	43	2	0	0	2	14	155	2	171	5	0	11	16	232
Total	5	141	15	161	2	0	0	2	57	776	23	856	18	0	49	67	1086
08:00 AM	0	48	1	49	3	0	0	3	21	129	0	150	5	0	14	19	221
08:15 AM	0	32	4	36	6	0	1	7	12	109	0	121	10	0	8	18	182
08:30 AM	0	26	6	32	2	0	2	4	7	90	1	98	4	0	8	12	146
08:45 AM	0	41	0	41	0	0	0	0	8	91	0	99	3	0	9	12	152
Total	0	147	11	158	11	0	3	14	48	419	1	468	22	0	39	61	701
Grand Total	5	288	26	319	13	0	3	16	105	1195	24	1324	40	0	88	128	1787
Apprch %	1.6	90.3	8.2		81.2	0	18.8		7.9	90.3	1.8		31.2	0	68.8		
Total %	0.3	16.1	1.5	17.9	0.7	0	0.2	0.9	5.9	66.9	1.3	74.1	2.2	0	4.9	7.2	

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	0	26	**5**	31	0	0	0	0	11	**263**	5	**279**	**6**	0	9	15	**325**
07:15 AM	0	32	4	36	0	0	0	0	12	189	**9**	210	2	0	14	16	262
07:30 AM	**4**	**45**	2	**51**	0	0	0	0	**20**	169	7	196	5	0	**15**	**20**	267
07:45 AM	1	38	4	43	**2**	0	0	**2**	14	155	2	171	5	0	11	16	232
Total Volume	5	141	15	161	2	0	0	2	57	776	23	856	18	0	49	67	1086
% App. Total	3.1	87.6	9.3		100	0	0		6.7	90.7	2.7		26.9	0	73.1		
PHF	.313	.783	.750	.789	.250	.000	.000	.250	.713	.738	.639	.767	.750	.000	.817	.838	.835

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City of Irwindale
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E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia AM
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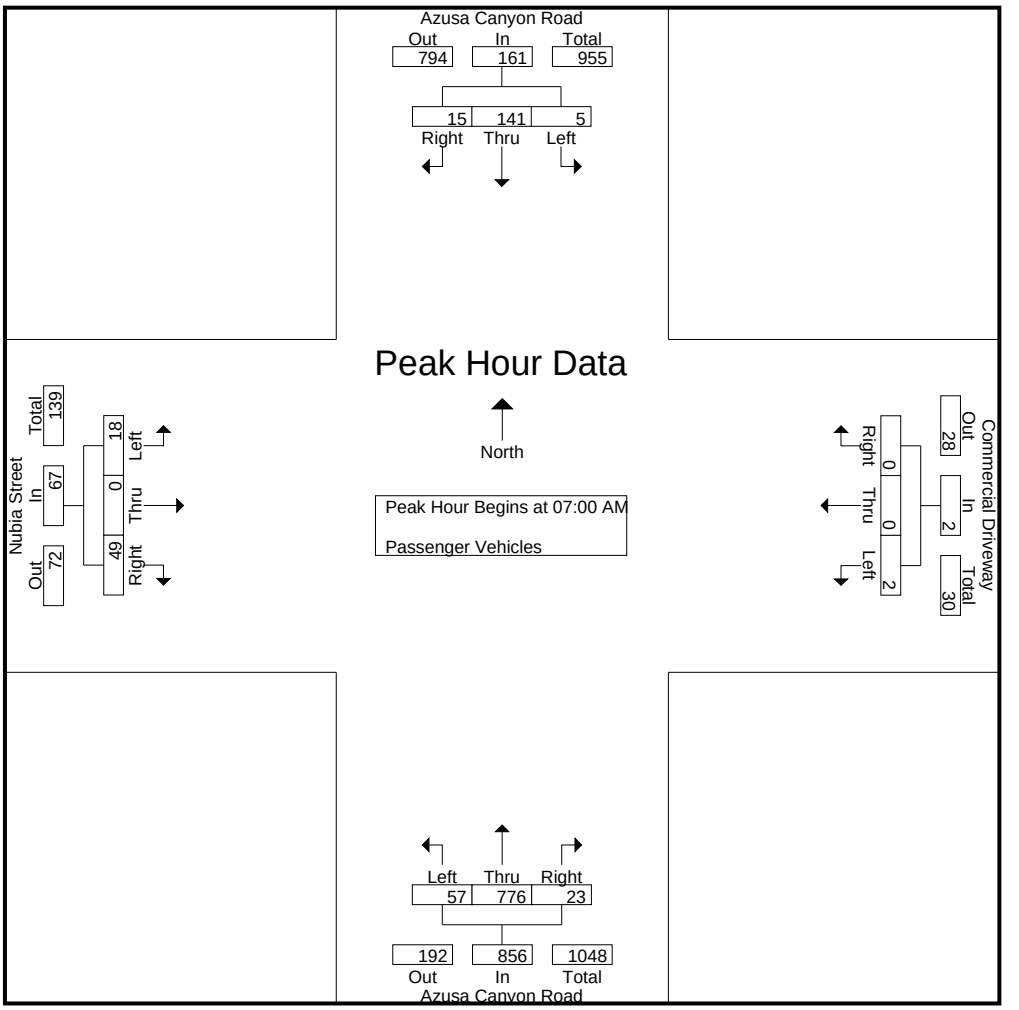

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	0	26	**5**	31	0	0	0	0	11	**263**	5	**279**	**6**	0	9	15
+15 mins.	0	32	4	36	0	0	0	0	12	189	**9**	210	2	0	14	16
+30 mins.	**4**	**45**	2	**51**	0	0	0	0	**20**	169	7	196	5	0	**15**	**20**
+45 mins.	1	38	4	43	**2**	0	0	**2**	14	155	2	171	5	0	11	16
Total Volume	5	141	15	161	2	0	0	2	57	776	23	856	18	0	49	67
% App. Total	3.1	87.6	9.3		100	0	0		6.7	90.7	2.7		26.9	0	73.1	
PHF	.313	.783	.750	.789	.250	.000	.000	.250	.713	.738	.639	.767	.750	.000	.817	.838

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Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia AM
Site Code : 22518834
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Groups Printed- Large 2 Axle Vehicles

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	1	1	0	0	0	0	3	2	0	5	1	0	3	4	10
07:15 AM	0	0	0	0	0	0	0	0	0	5	0	5	0	0	0	0	5
07:30 AM	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	1	1	0	4	0	4	1	0	0	1	6
Total	0	1	1	2	0	0	1	1	3	12	0	15	2	0	3	5	23
08:00 AM	0	7	0	7	0	0	0	0	2	2	0	4	0	0	0	0	11
08:15 AM	0	1	1	2	2	0	1	3	1	2	0	3	0	0	0	0	8
08:30 AM	0	0	3	3	1	0	0	1	2	2	0	4	0	0	0	0	8
08:45 AM	0	5	1	6	0	0	0	0	0	3	0	3	0	0	2	2	11
Total	0	13	5	18	3	0	1	4	5	9	0	14	0	0	2	2	38
Grand Total	0	14	6	20	3	0	2	5	8	21	0	29	2	0	5	7	61
Apprch %	0	70	30		60	0	40		27.6	72.4	0		28.6	0	71.4		
Total %	0	23	9.8	32.8	4.9	0	3.3	8.2	13.1	34.4	0	47.5	3.3	0	8.2	11.5	

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	0	0	**1**	**1**	0	0	0	0	**3**	2	0	**5**	**1**	0	**3**	**4**	**10**
07:15 AM	0	0	0	0	0	0	0	0	0	**5**	0	5	0	0	0	0	5
07:30 AM	0	**1**	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	**1**	**1**	0	4	0	4	1	0	0	1	6
Total Volume	0	1	1	2	0	0	1	1	3	12	0	15	2	0	3	5	23
% App. Total	0	50	50		0	0	100		20	80	0		40	0	60		
PHF	.000	.250	.250	.500	.000	.000	.250	.250	.250	.600	.000	.750	.500	.000	.250	.313	.575

Counts Unlimited
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951-268-6268

City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia AM
Site Code : 22518834
Start Date : 11/1/2018
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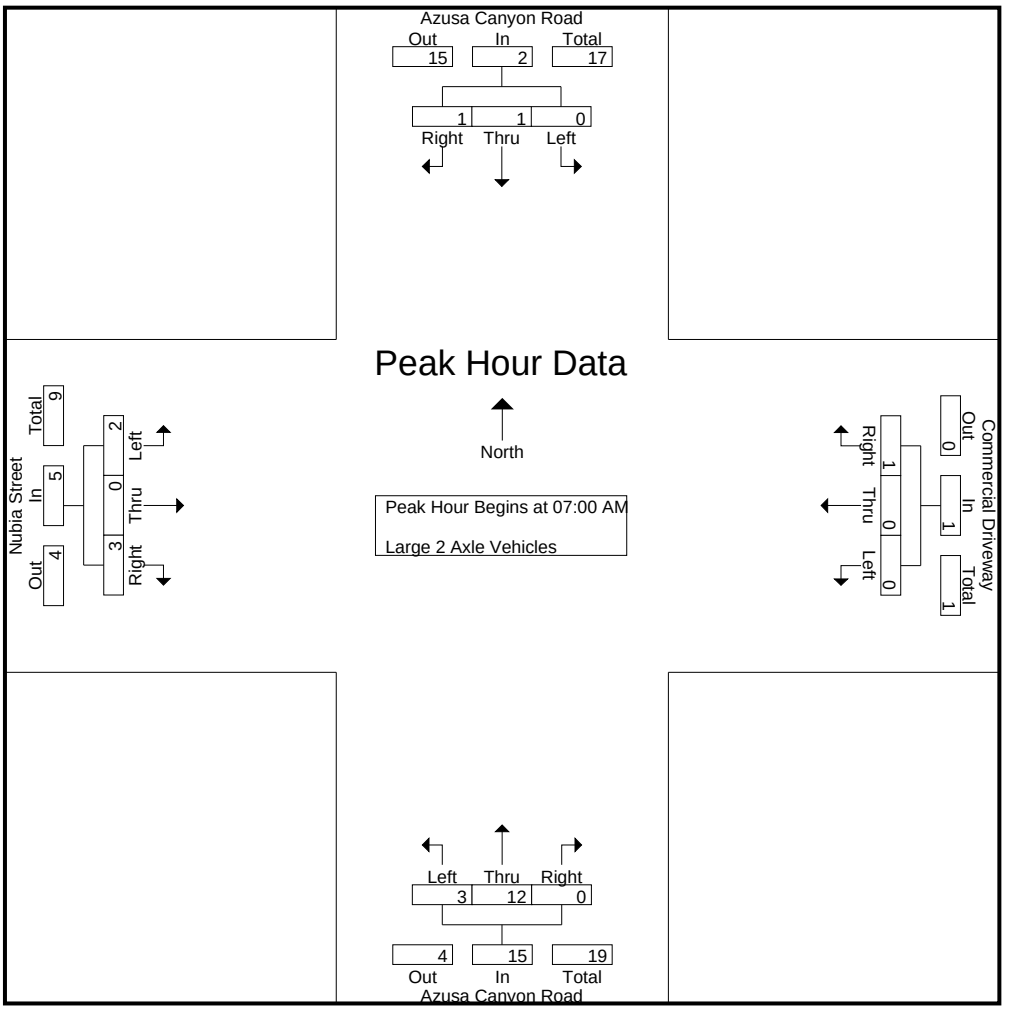

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	**1**	**1**	0	0	0	0	**3**	2	0	**5**	**1**	0	**3**	**4**
+15 mins.	0	0	0	0	0	0	0	0	0	**5**	0	5	0	0	0	0
+30 mins.	0	**1**	0	1	0	0	0	0	0	1	0	1	0	0	0	0
+45 mins.	0	0	0	0	0	0	**1**	**1**	0	4	0	4	1	0	0	1
Total Volume	0	1	1	2	0	0	1	1	3	12	0	15	2	0	3	5
% App. Total	0	50	50		0	0	100		20	80	0		40	0	60	
PHF	.000	.250	.250	.500	.000	.000	.250	.250	.250	.600	.000	.750	.500	.000	.250	.313

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia AM
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Groups Printed- 3 Axle Vehicles

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
08:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:15 AM	0	1	0	1	0	0	0	0	0	2	0	2	0	0	0	0	3
08:30 AM	0	0	1	1	0	0	0	0	0	2	0	2	0	0	0	0	3
08:45 AM	0	1	0	1	0	0	0	0	0	2	0	2	0	0	0	0	3
Total	0	3	1	4	0	0	0	0	0	6	0	6	0	0	0	0	10
Grand Total	0	3	1	4	0	0	0	0	0	7	0	7	0	0	0	0	11
Apprch %	0	75	25		0	0	0		0	100	0		0	0	0		
Total %	0	27.3	9.1	36.4	0	0	0	0	0	63.6	0	63.6	0	0	0	0	

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	0	0	0	0	0	0	0	0	0	**1**	0	**1**	0	0	0	0	**1**
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
% App. Total	0	0	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.000	.250	.000	.000	.000	.000	.250

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
Weather: Clear

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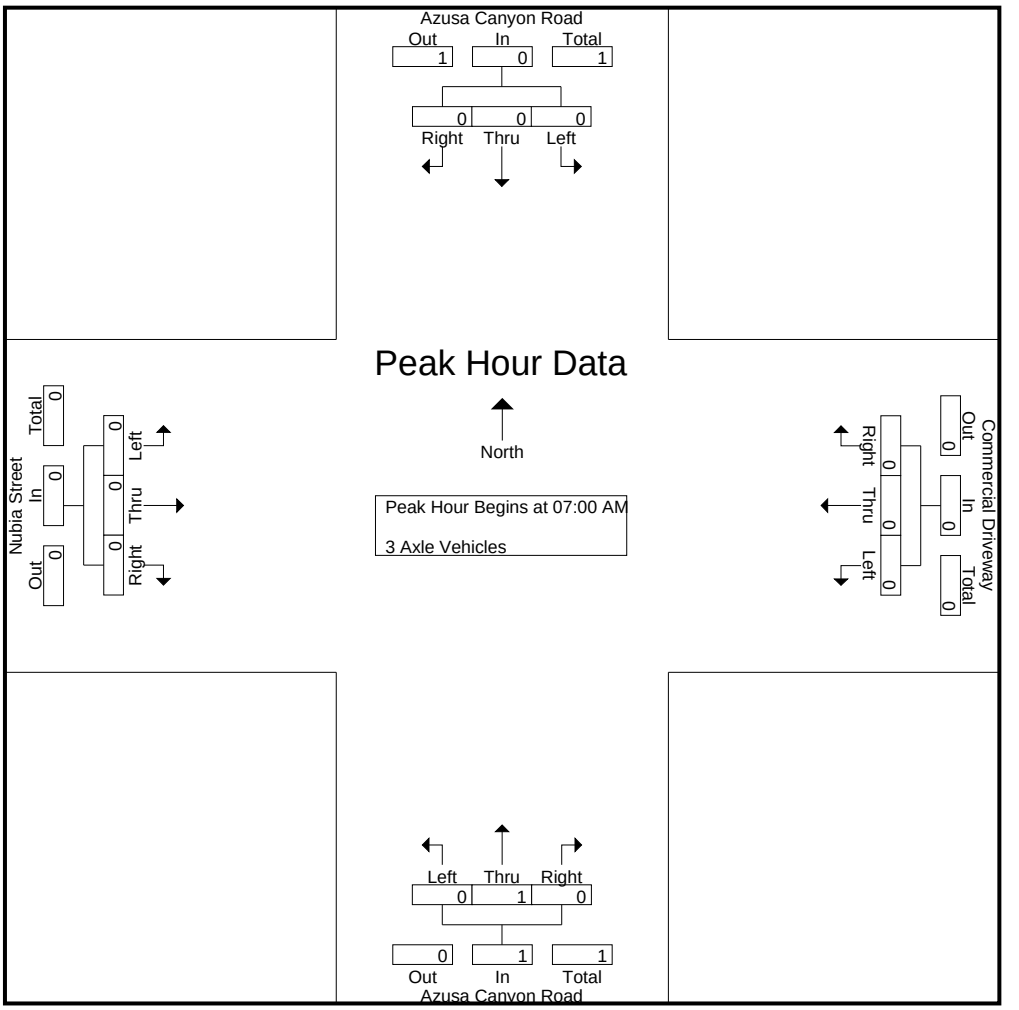

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	**1**	0	**1**	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
% App. Total	0	0	0		0	0	0		0	100	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.000	.250	.000	.000	.000	.000

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- 4+ Axle Trucks

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	2	0	2	0	0	0	0	0	1	0	1	0	0	0	0	3
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	3
Total	0	2	0	2	0	0	0	0	0	4	0	4	0	0	0	0	6
08:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:15 AM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
08:30 AM	0	2	0	2	0	0	0	0	0	1	0	1	0	0	0	0	3
08:45 AM	0	0	1	1	0	0	0	0	0	1	0	1	0	0	0	0	2
Total	0	3	1	4	0	0	0	0	0	4	0	4	0	0	0	0	8
Grand Total	0	5	1	6	0	0	0	0	0	8	0	8	0	0	0	0	14
Apprch %	0	83.3	16.7		0	0	0		0	100	0		0	0	0		
Total %	0	35.7	7.1	42.9	0	0	0	0	0	57.1	0	57.1	0	0	0	0	

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	0	**2**	0	**2**	0	0	0	0	0	1	0	1	0	0	0	0	**3**
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	**3**	0	**3**	0	0	0	0	3
Total Volume	0	2	0	2	0	0	0	0	0	4	0	4	0	0	0	0	6
% App. Total	0	100	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.250	.000	.250	.000	.000	.000	.000	.000	.333	.000	.333	.000	.000	.000	.000	.500

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia AM
Site Code : 22518834
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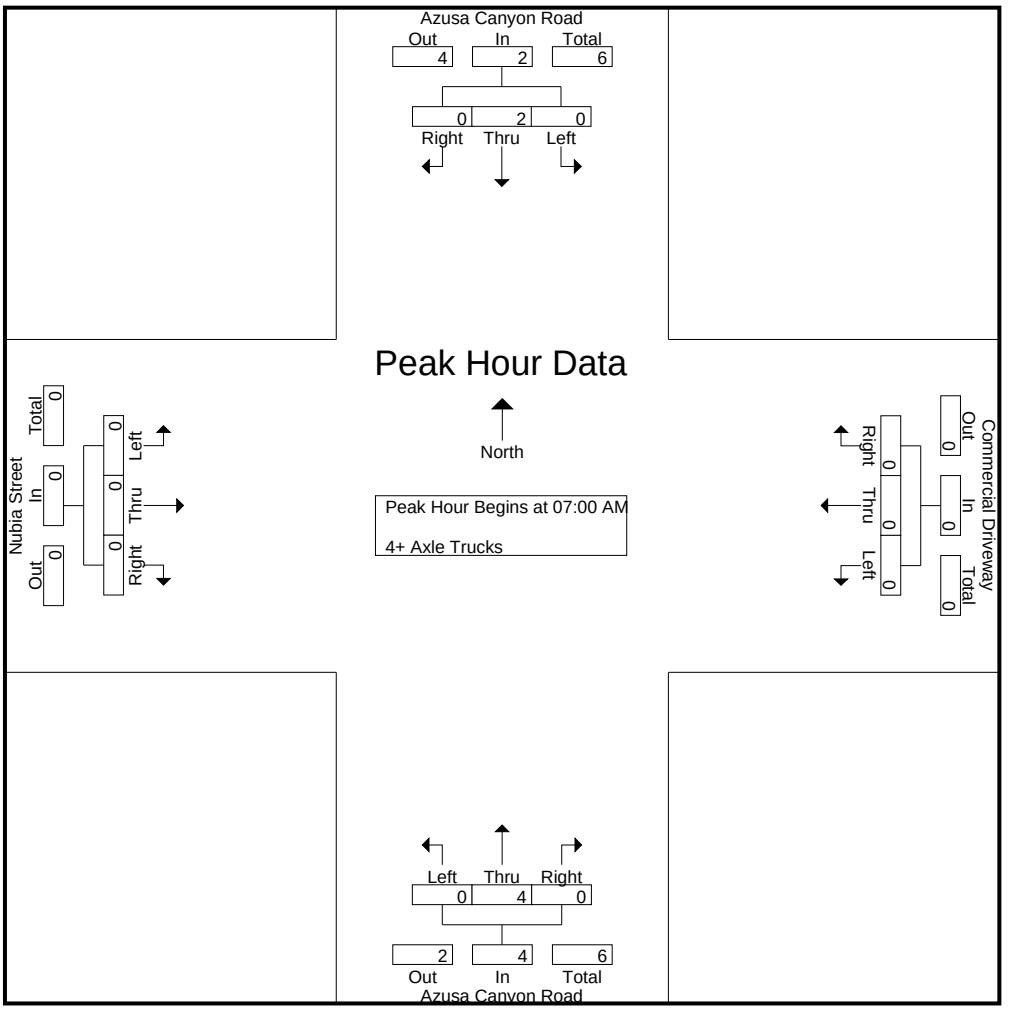

Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:00 AM				07:00 AM				07:00 AM			
+0 mins.	0	**2**	0	**2**	0	0	0	0	0	1	0	1	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	**3**	0	**3**	0	0	0	0
Total Volume	0	2	0	2	0	0	0	0	0	4	0	4	0	0	0	0
% App. Total	0	100	0		0	0	0		0	100	0		0	0	0	
PHF	.000	.250	.000	.250	.000	.000	.000	.000	.000	.333	.000	.333	.000	.000	.000	.000

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	113	4	117	0	0	0	0	15	86	0	101	14	0	24	38	256
04:15 PM	0	109	6	115	0	0	0	0	7	77	0	84	15	0	22	37	236
04:30 PM	0	109	6	115	0	0	0	0	11	67	0	78	14	0	32	46	239
04:45 PM	0	118	9	127	0	0	0	0	7	81	0	88	7	0	19	26	241
Total	0	449	25	474	0	0	0	0	40	311	0	351	50	0	97	147	972
05:00 PM	0	94	12	106	0	0	0	0	7	77	0	84	14	0	26	40	230
05:15 PM	0	103	9	112	0	0	0	0	8	76	0	84	16	0	17	33	229
05:30 PM	0	105	9	114	0	0	0	0	13	94	0	107	12	0	26	38	259
05:45 PM	0	118	11	129	0	0	0	0	14	69	0	83	10	0	30	40	252
Total	0	420	41	461	0	0	0	0	42	316	0	358	52	0	99	151	970
Grand Total	0	869	66	935	0	0	0	0	82	627	0	709	102	0	196	298	1942
Apprch %	0	92.9	7.1		0	0	0		11.6	88.4	0		34.2	0	65.8		
Total %	0	44.7	3.4	48.1	0	0	0	0	4.2	32.3	0	36.5	5.3	0	10.1	15.3	
Passenger Vehicles	0	844	64	908	0	0	0	0	76	604	0	680	99	0	190	289	1877
% Passenger Vehicles	0	97.1	97	97.1	0	0	0	0	92.7	96.3	0	95.9	97.1	0	96.9	97	96.7
Large 2 Axle Vehicles	0	17	2	19	0	0	0	0	6	18	0	24	3	0	6	9	52
% Large 2 Axle Vehicles	0	2	3	2	0	0	0	0	7.3	2.9	0	3.4	2.9	0	3.1	3	2.7
3 Axle Vehicles	0	2	0	2	0	0	0	0	0	3	0	3	0	0	0	0	5
% 3 Axle Vehicles	0	0.2	0	0.2	0	0	0	0	0	0.5	0	0.4	0	0	0	0	0.3
4+ Axle Trucks	0	6	0	6	0	0	0	0	0	2	0	2	0	0	0	0	8
% 4+ Axle Trucks	0	0.7	0	0.6	0	0	0	0	0	0.3	0	0.3	0	0	0	0	0.4

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	113	4	117	0	0	0	0	**15**	**86**	0	**101**	14	0	24	38	**256**
04:15 PM	0	109	6	115	0	0	0	0	7	77	0	84	**15**	0	22	37	236
04:30 PM	0	109	6	115	0	0	0	0	11	67	0	78	14	0	**32**	**46**	239
04:45 PM	0	**118**	**9**	**127**	0	0	0	0	7	81	0	88	7	0	19	26	241
Total Volume	0	449	25	474	0	0	0	0	40	311	0	351	50	0	97	147	972
% App. Total	0	94.7	5.3		0	0	0		11.4	88.6	0		34	0	66		
PHF	.000	.951	.694	.933	.000	.000	.000	.000	.667	.904	.000	.869	.833	.000	.758	.799	.949

Counts Unlimited
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City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia PM
Site Code : 22518834
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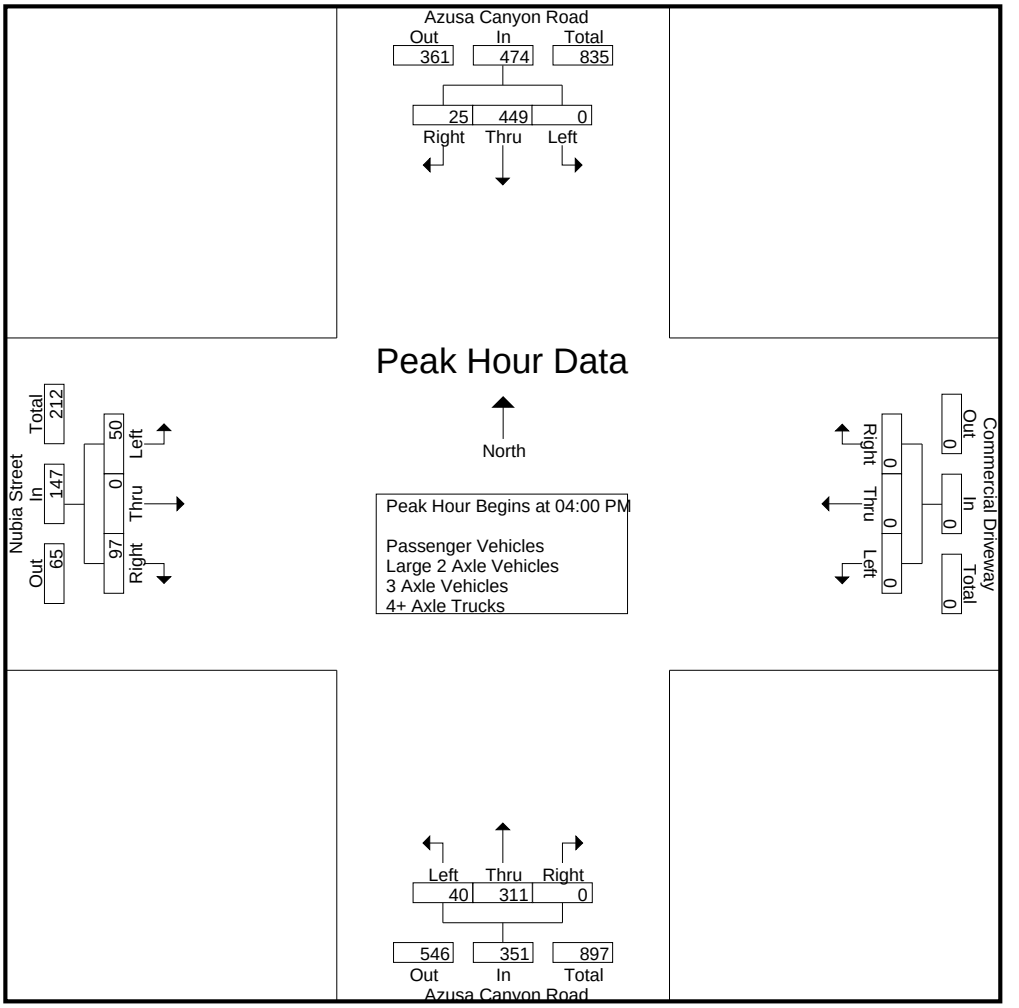

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:45 PM				05:00 PM			
+0 mins.	0	113	4	117	0	0	0	0	7	81	0	88	14	0	26	**40**
+15 mins.	0	109	6	115	0	0	0	0	7	77	0	84	**16**	0	17	33
+30 mins.	0	109	6	115	0	0	0	0	8	76	0	84	12	0	26	38
+45 mins.	0	**118**	**9**	**127**	0	0	0	0	**13**	**94**	0	**107**	10	0	**30**	40
Total Volume	0	449	25	474	0	0	0	0	35	328	0	363	52	0	99	151
% App. Total	0	94.7	5.3		0	0	0		9.6	90.4	0		34.4	0	65.6	
PHF	.000	.951	.694	.933	.000	.000	.000	.000	.673	.872	.000	.848	.813	.000	.825	.944

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia PM
Site Code : 22518834
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Groups Printed- Passenger Vehicles

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	111	3	114	0	0	0	0	15	83	0	98	13	0	24	37	249
04:15 PM	0	105	5	110	0	0	0	0	5	74	0	79	15	0	21	36	225
04:30 PM	0	106	6	112	0	0	0	0	9	60	0	69	13	0	30	43	224
04:45 PM	0	114	9	123	0	0	0	0	7	80	0	87	7	0	19	26	236
Total	0	436	23	459	0	0	0	0	36	297	0	333	48	0	94	142	934
05:00 PM	0	89	12	101	0	0	0	0	7	71	0	78	14	0	25	39	218
05:15 PM	0	99	9	108	0	0	0	0	8	75	0	83	16	0	17	33	224
05:30 PM	0	104	9	113	0	0	0	0	13	94	0	107	11	0	26	37	257
05:45 PM	0	116	11	127	0	0	0	0	12	67	0	79	10	0	28	38	244
Total	0	408	41	449	0	0	0	0	40	307	0	347	51	0	96	147	943
Grand Total	0	844	64	908	0	0	0	0	76	604	0	680	99	0	190	289	1877
Apprch %	0	93	7		0	0	0		11.2	88.8	0		34.3	0	65.7		
Total %	0	45	3.4	48.4	0	0	0	0	4	32.2	0	36.2	5.3	0	10.1	15.4	

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	111	3	114	0	0	0	0	**15**	**83**	0	**98**	13	0	24	37	**249**
04:15 PM	0	105	5	110	0	0	0	0	5	74	0	79	**15**	0	21	36	225
04:30 PM	0	106	6	112	0	0	0	0	9	60	0	69	13	0	**30**	**43**	224
04:45 PM	0	**114**	**9**	**123**	0	0	0	0	7	80	0	87	7	0	19	26	236
Total Volume	0	436	23	459	0	0	0	0	36	297	0	333	48	0	94	142	934
% App. Total	0	95	5		0	0	0		10.8	89.2	0		33.8	0	66.2		
PHF	.000	.956	.639	.933	.000	.000	.000	.000	.600	.895	.000	.849	.800	.000	.783	.826	.938

Counts Unlimited
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City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia PM
Site Code : 22518834
Start Date : 11/1/2018
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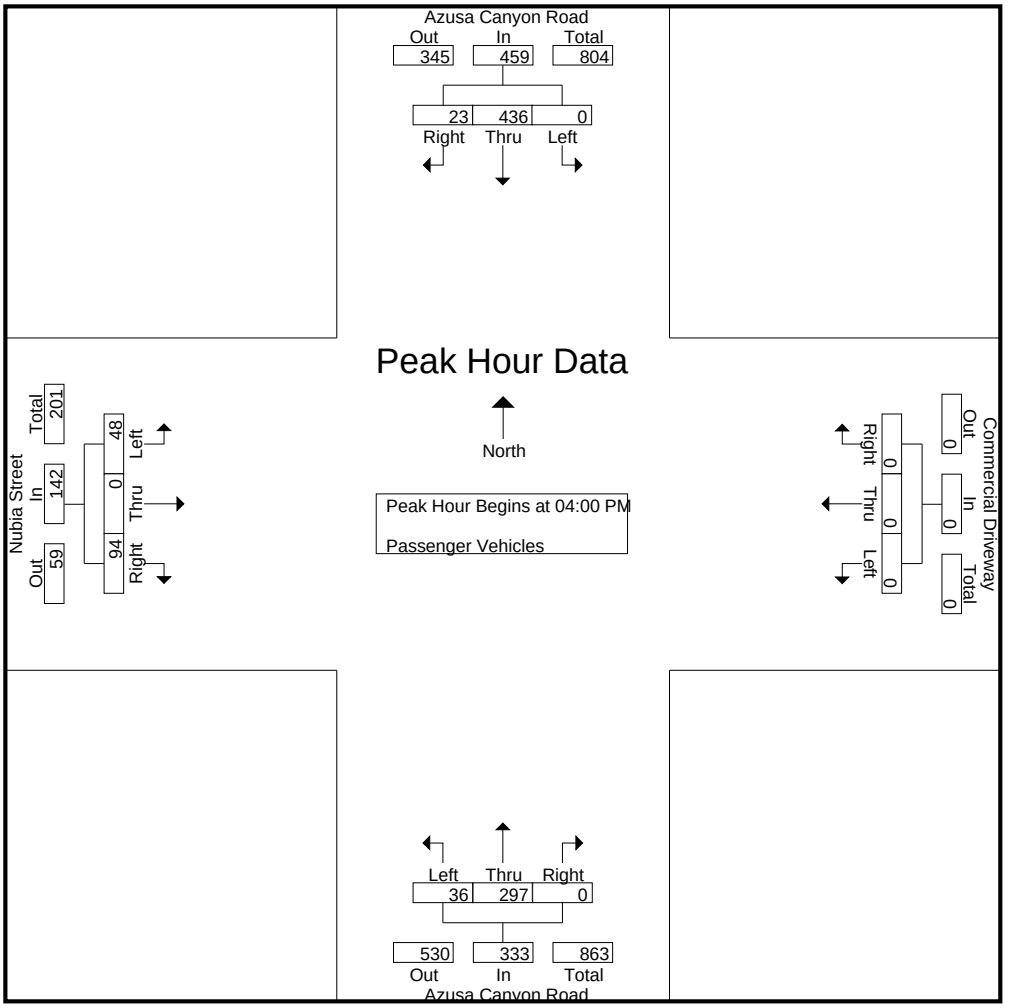

Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	111	3	114	0	0	0	0	**15**	**83**	0	**98**	13	0	24	37
+15 mins.	0	105	5	110	0	0	0	0	5	74	0	79	**15**	0	21	36
+30 mins.	0	106	6	112	0	0	0	0	9	60	0	69	13	0	**30**	**43**
+45 mins.	0	**114**	**9**	**123**	0	0	0	0	7	80	0	87	7	0	19	26
Total Volume	0	436	23	459	0	0	0	0	36	297	0	333	48	0	94	142
% App. Total	0	95	5		0	0	0		10.8	89.2	0		33.8	0	66.2	
PHF	.000	.956	.639	.933	.000	.000	.000	.000	.600	.895	.000	.849	.800	.000	.783	.826

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia PM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- Large 2 Axle Vehicles

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	1	1	0	0	0	0	0	1	0	1	1	0	0	1	3
04:15 PM	0	1	1	2	0	0	0	0	2	3	0	5	0	0	1	1	8
04:30 PM	0	3	0	3	0	0	0	0	2	5	0	7	1	0	2	3	13
04:45 PM	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	0	8	2	10	0	0	0	0	4	9	0	13	2	0	3	5	28
05:00 PM	0	3	0	3	0	0	0	0	0	6	0	6	0	0	1	1	10
05:15 PM	0	3	0	3	0	0	0	0	0	1	0	1	0	0	0	0	4
05:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	2
05:45 PM	0	2	0	2	0	0	0	0	2	2	0	4	0	0	2	2	8
Total	0	9	0	9	0	0	0	0	2	9	0	11	1	0	3	4	24
Grand Total	0	17	2	19	0	0	0	0	6	18	0	24	3	0	6	9	52
Apprch %	0	89.5	10.5		0	0	0		25	75	0		33.3	0	66.7		
Total %	0	32.7	3.8	36.5	0	0	0	0	11.5	34.6	0	46.2	5.8	0	11.5	17.3	

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	**1**	1	0	0	0	0	0	1	0	1	**1**	0	0	1	3
04:15 PM	0	1	1	2	0	0	0	0	**2**	3	0	5	0	0	1	1	8
04:30 PM	0	3	0	3	0	0	0	0	2	**5**	0	**7**	1	0	**2**	**3**	**13**
04:45 PM	0	**4**	0	**4**	0	0	0	0	0	0	0	0	0	0	0	0	4
Total Volume	0	8	2	10	0	0	0	0	4	9	0	13	2	0	3	5	28
% App. Total	0	80	20		0	0	0		30.8	69.2	0		40	0	60		
PHF	.000	.500	.500	.625	.000	.000	.000	.000	.500	.450	.000	.464	.500	.000	.375	.417	.538

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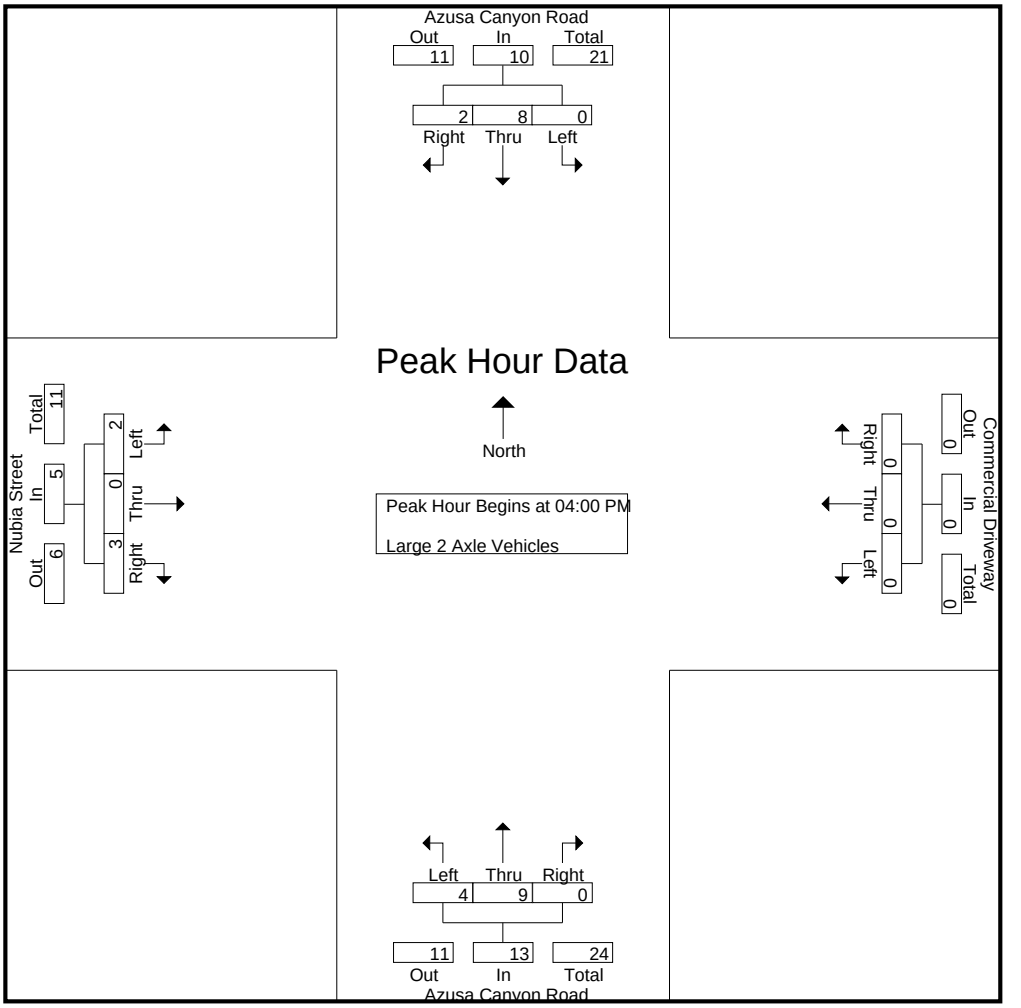
City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 2



Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	0	**1**	1	0	0	0	0	0	1	0	1	**1**	0	0	1
+15 mins.	0	1	1	2	0	0	0	0	**2**	3	0	5	0	0	1	1
+30 mins.	0	3	0	3	0	0	0	0	2	**5**	0	**7**	1	0	**2**	**3**
+45 mins.	0	**4**	0	**4**	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	8	2	10	0	0	0	0	4	9	0	13	2	0	3	5
% App. Total	0	80	20		0	0	0		30.8	69.2	0		40	0	60	
PHF	.000	.500	.500	.625	.000	.000	.000	.000	.500	.450	.000	.464	.500	.000	.375	.417

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia PM
Site Code : 22518834
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Groups Printed- 3 Axle Vehicles

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
04:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	0	0	0	0	0	3	0	3	0	0	0	0	4
05:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Grand Total	0	2	0	2	0	0	0	0	0	3	0	3	0	0	0	0	5
Apprch %	0	100	0		0	0	0		0	100	0		0	0	0		
Total %	0	40	0	40	0	0	0	0	0	60	0	60	0	0	0	0	

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
04:15 PM	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	0	0	**2**	0	**2**	0	0	0	0	**2**
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	0	1	0	0	0	0	0	3	0	3	0	0	0	0	4
% App. Total	0	100	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.250	.000	.250	.000	.000	.000	.000	.000	.375	.000	.375	.000	.000	.000	.000	.500

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia PM
Site Code : 22518834
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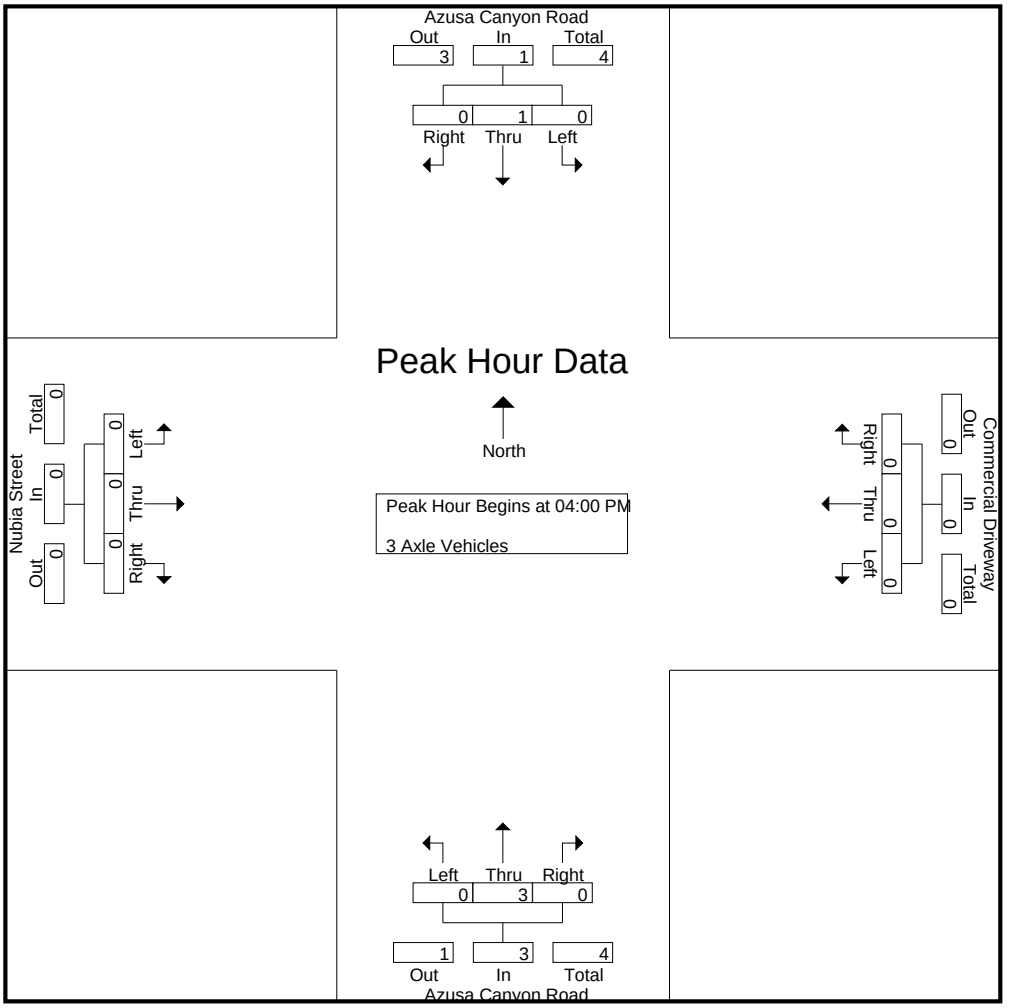

Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
+15 mins.	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	**2**	0	**2**	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	0	1	0	0	0	0	0	3	0	3	0	0	0	0
% App. Total	0	100	0		0	0	0		0	100	0		0	0	0	
PHF	.000	.250	.000	.250	.000	.000	.000	.000	.000	.375	.000	.375	.000	.000	.000	.000

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- 4+ Axle Trucks

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	2	0	2	0	0	0	0	0	1	0	1	0	0	0	0	3
04:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Total	0	4	0	4	0	0	0	0	0	2	0	2	0	0	0	0	6
05:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Grand Total	0	6	0	6	0	0	0	0	0	2	0	2	0	0	0	0	8
Apprch %	0	100	0		0	0	0		0	100	0		0	0	0		
Total %	0	75	0	75	0	0	0	0	0	25	0	25	0	0	0	0	

	Azusa Canyon Road Southbound				Commercial Driveway Westbound				Azusa Canyon Road Northbound				Nubia Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	**2**	0	**2**	0	0	0	0	0	**1**	0	**1**	0	0	0	0	**3**
04:15 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Total Volume	0	4	0	4	0	0	0	0	0	2	0	2	0	0	0	0	6
% App. Total	0	100	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.000	.500	.000	.500	.000	.000	.000	.000	.500

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City of Irwindale
N/S: Azusa Canyon Road
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Weather: Clear

File Name : 11_IRW_Azusa Cyn_Nubia PM
Site Code : 22518834
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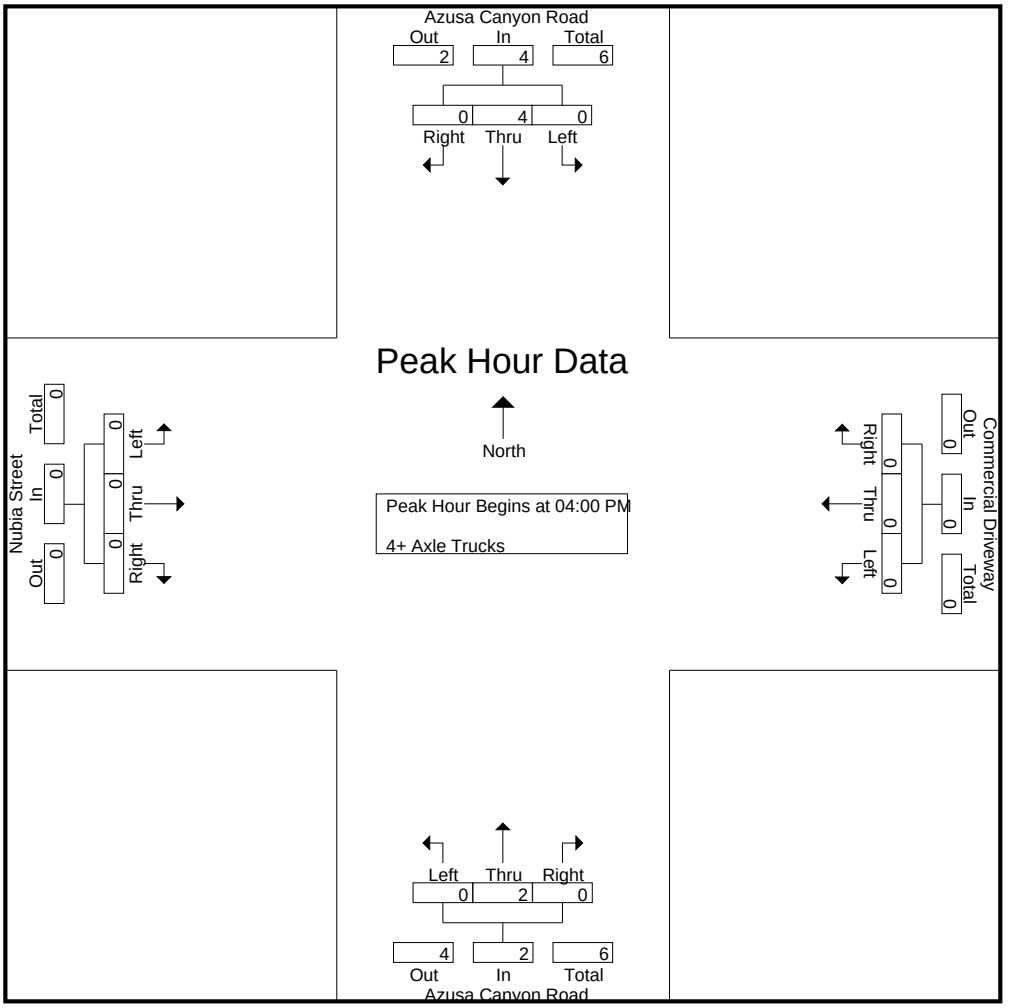

Peak Hour Analysis From 04:00 PM to 04:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	**2**	0	**2**	0	0	0	0	0	**1**	0	**1**	0	0	0	0
+15 mins.	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
Total Volume	0	4	0	4	0	0	0	0	0	2	0	2	0	0	0	0
% App. Total	0	100	0		0	0	0		0	100	0		0	0	0	
PHF	.000	.500	.000	.500	.000	.000	.000	.000	.000	.500	.000	.500	.000	.000	.000	.000

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City of Irwindale
N/S: 4th Street
E/W: Arrow Highway
Weather: Clear

File Name : 12_IRW_4th_Arrow AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	1	0	1	18	472	1	491	29	2	5	36	1	146	21	168	696
07:15 AM	2	0	0	2	16	455	1	472	23	0	6	29	3	159	19	181	684
07:30 AM	0	1	1	2	24	389	0	413	21	1	6	28	5	174	24	203	646
07:45 AM	3	0	0	3	26	418	2	446	29	1	7	37	4	245	44	293	779
Total	5	2	1	8	84	1734	4	1822	102	4	24	130	13	724	108	845	2805
08:00 AM	0	1	3	4	23	378	4	405	15	0	6	21	7	235	37	279	709
08:15 AM	0	1	1	2	28	361	3	392	15	0	7	22	11	231	24	266	682
08:30 AM	2	0	1	3	34	277	3	314	23	1	9	33	2	223	32	257	607
08:45 AM	2	0	3	5	22	283	2	307	23	1	7	31	9	220	30	259	602
Total	4	2	8	14	107	1299	12	1418	76	2	29	107	29	909	123	1061	2600
Grand Total	9	4	9	22	191	3033	16	3240	178	6	53	237	42	1633	231	1906	5405
Apprch %	40.9	18.2	40.9		5.9	93.6	0.5		75.1	2.5	22.4		2.2	85.7	12.1		
Total %	0.2	0.1	0.2	0.4	3.5	56.1	0.3	59.9	3.3	0.1	1	4.4	0.8	30.2	4.3	35.3	
Passenger Vehicles	8	4	7	19	178	2813	10	3001	145	6	42	193	40	1466	208	1714	4927
% Passenger Vehicles	88.9	100	77.8	86.4	93.2	92.7	62.5	92.6	81.5	100	79.2	81.4	95.2	89.8	90	89.9	91.2
Large 2 Axle Vehicles	1	0	1	2	9	125	5	139	22	0	7	29	1	88	11	100	270
% Large 2 Axle Vehicles	11.1	0	11.1	9.1	4.7	4.1	31.2	4.3	12.4	0	13.2	12.2	2.4	5.4	4.8	5.2	5
3 Axle Vehicles	0	0	1	1	0	39	1	40	4	0	0	4	1	33	2	36	81
% 3 Axle Vehicles	0	0	11.1	4.5	0	1.3	6.2	1.2	2.2	0	0	1.7	2.4	2	0.9	1.9	1.5
4+ Axle Trucks	0	0	0	0	4	56	0	60	7	0	4	11	0	46	10	56	127
% 4+ Axle Trucks	0	0	0	0	2.1	1.8	0	1.9	3.9	0	7.5	4.6	0	2.8	4.3	2.9	2.3

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	2	0	0	2	16	**455**	1	**472**	23	0	6	29	3	159	19	181	684
07:30 AM	0	**1**	1	2	24	389	0	413	21	**1**	6	28	5	174	24	203	646
07:45 AM	**3**	0	0	3	**26**	418	2	446	**29**	1	**7**	**37**	4	**245**	**44**	**293**	**779**
08:00 AM	0	1	**3**	**4**	23	378	**4**	405	15	0	6	21	**7**	235	37	279	709
Total Volume	5	2	4	11	89	1640	7	1736	88	2	25	115	19	813	124	956	2818
% App. Total	45.5	18.2	36.4		5.1	94.5	0.4		76.5	1.7	21.7		2	85	13		
PHF	.417	.500	.333	.688	.856	.901	.438	.919	.759	.500	.893	.777	.679	.830	.705	.816	.904

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City of Irwindale
N/S: 4th Street
E/W: Arrow Highway
Weather: Clear

File Name : 12_IRW_4th_Arrow AM
Site Code : 22518834
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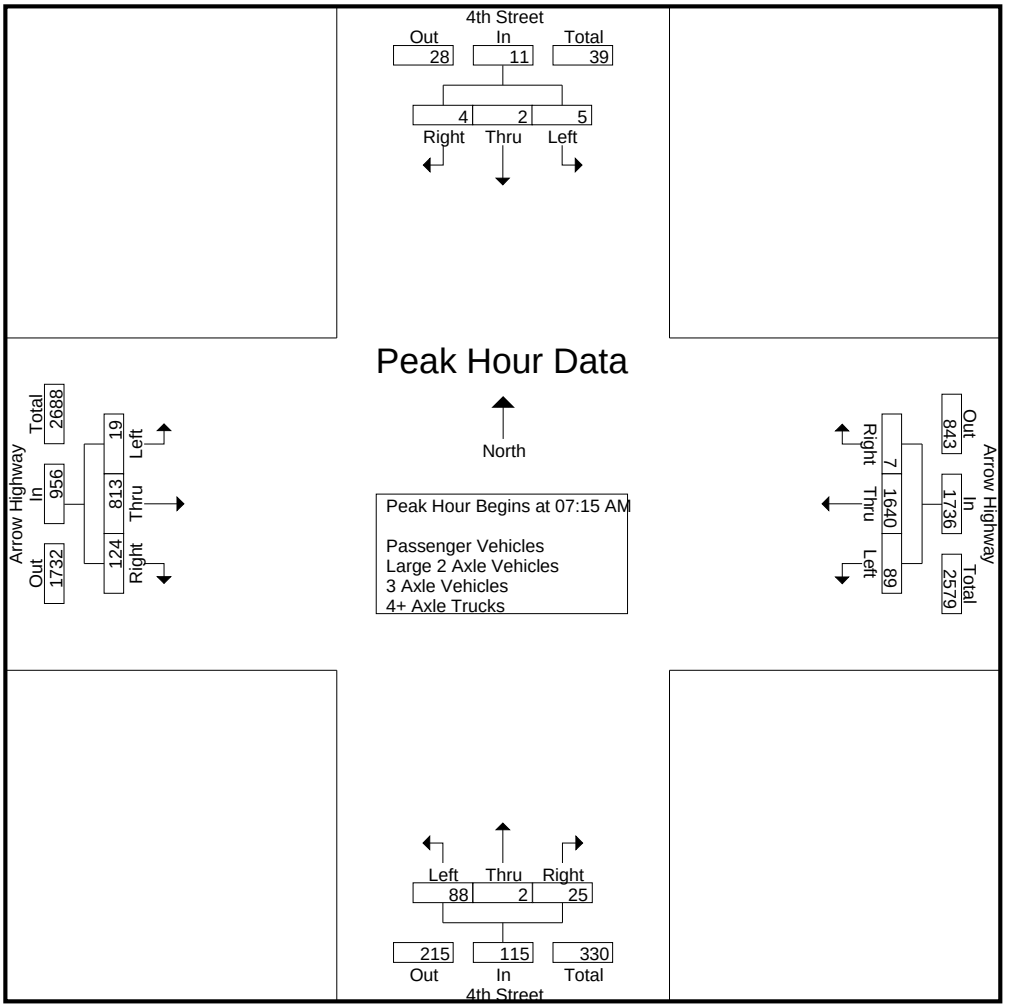

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				07:00 AM				07:00 AM				07:45 AM			
+0 mins.	0	**1**	**3**	4	18	**472**	1	**491**	**29**	**2**	5	36	4	**245**	**44**	**293**
+15 mins.	0	1	1	2	16	455	1	472	23	0	6	29	7	235	37	279
+30 mins.	**2**	0	1	3	24	389	0	413	21	1	6	28	**11**	231	24	266
+45 mins.	2	0	3	**5**	**26**	418	**2**	446	29	1	**7**	**37**	2	223	32	257
Total Volume	4	2	8	14	84	1734	4	1822	102	4	24	130	24	934	137	1095
% App. Total	28.6	14.3	57.1		4.6	95.2	0.2		78.5	3.1	18.5		2.2	85.3	12.5	
PHF	.500	.500	.667	.700	.808	.918	.500	.928	.879	.500	.857	.878	.545	.953	.778	.934

Counts Unlimited
PO Box 1178
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City of Irwindale
N/S: 4th Street
E/W: Arrow Highway
Weather: Clear

File Name : 12_IRW_4th_Arrow AM
Site Code : 22518834
Start Date : 11/1/2018
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Groups Printed- Passenger Vehicles

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	1	0	1	18	439	1	458	26	2	4	32	1	126	21	148	639
07:15 AM	2	0	0	2	15	433	1	449	20	0	6	26	3	146	17	166	643
07:30 AM	0	1	1	2	23	368	0	391	17	1	5	23	5	160	21	186	602
07:45 AM	2	0	0	2	25	401	1	427	28	1	4	33	4	225	37	266	728
Total	4	2	1	7	81	1641	3	1725	91	4	19	114	13	657	96	766	2612
08:00 AM	0	1	2	3	22	351	1	374	9	0	5	14	5	214	36	255	646
08:15 AM	0	1	1	2	25	322	3	350	13	0	6	19	11	206	20	237	608
08:30 AM	2	0	1	3	29	251	2	282	16	1	7	24	2	192	29	223	532
08:45 AM	2	0	2	4	21	248	1	270	16	1	5	22	9	197	27	233	529
Total	4	2	6	12	97	1172	7	1276	54	2	23	79	27	809	112	948	2315
Grand Total	8	4	7	19	178	2813	10	3001	145	6	42	193	40	1466	208	1714	4927
Apprch %	42.1	21.1	36.8		5.9	93.7	0.3		75.1	3.1	21.8		2.3	85.5	12.1		
Total %	0.2	0.1	0.1	0.4	3.6	57.1	0.2	60.9	2.9	0.1	0.9	3.9	0.8	29.8	4.2	34.8	

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	**2**	0	0	2	15	**433**	**1**	**449**	20	0	**6**	26	3	146	17	166	643
07:30 AM	0	**1**	1	2	23	368	0	391	17	**1**	5	23	**5**	160	21	186	602
07:45 AM	2	0	0	2	**25**	401	1	427	**28**	1	4	**33**	4	**225**	**37**	**266**	**728**
08:00 AM	0	1	**2**	**3**	22	351	1	374	9	0	5	14	5	214	36	255	646
Total Volume	4	2	3	9	85	1553	3	1641	74	2	20	96	17	745	111	873	2619
% App. Total	44.4	22.2	33.3		5.2	94.6	0.2		77.1	2.1	20.8		1.9	85.3	12.7		
PHF	.500	.500	.375	.750	.850	.897	.750	.914	.661	.500	.833	.727	.850	.828	.750	.820	.899

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City of Irwindale
N/S: 4th Street
E/W: Arrow Highway
Weather: Clear

File Name : 12_IRW_4th_Arrow AM
Site Code : 22518834
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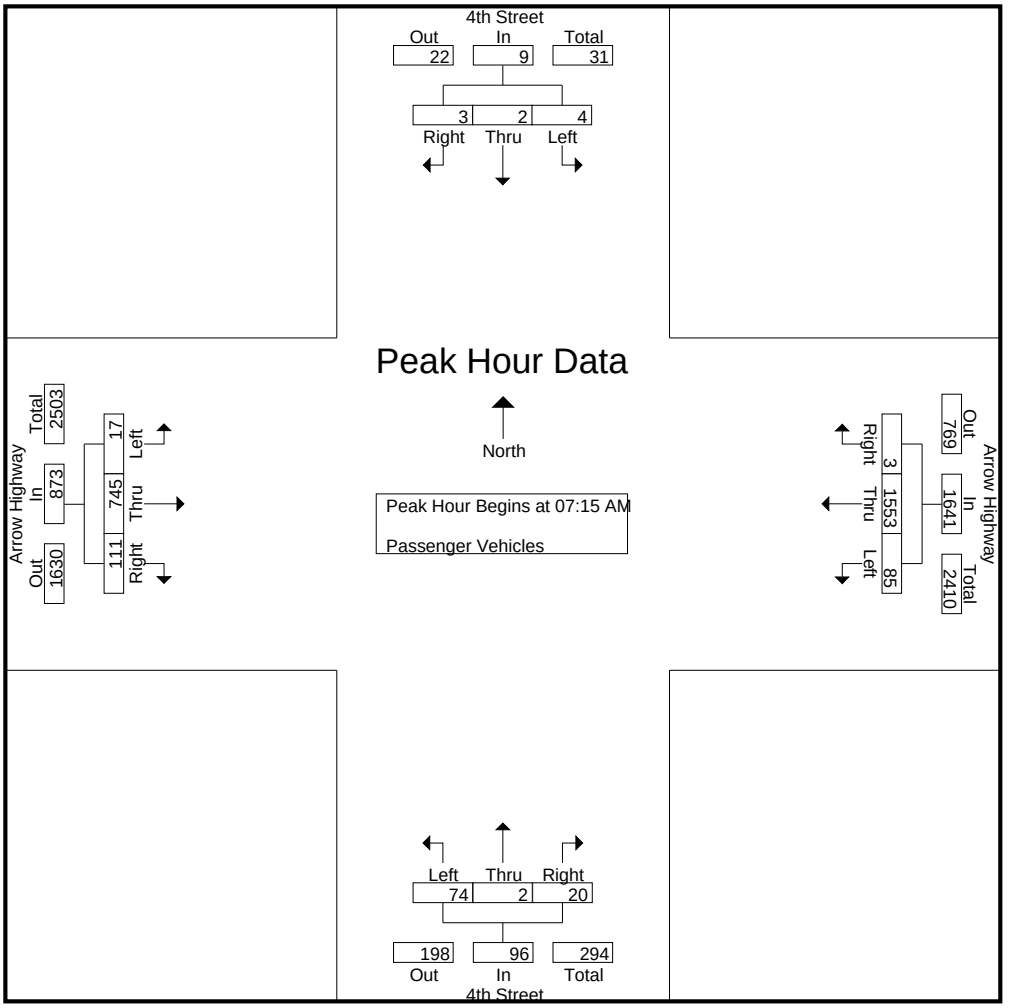

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	**2**	0	0	2	15	**433**	**1**	**449**	20	0	**6**	26	3	146	17	166
+15 mins.	0	**1**	1	2	23	368	0	391	17	**1**	5	23	**5**	160	21	186
+30 mins.	2	0	0	2	**25**	401	1	427	**28**	1	4	**33**	4	**225**	**37**	**266**
+45 mins.	0	1	**2**	**3**	22	351	1	374	9	0	5	14	5	214	36	255
Total Volume	4	2	3	9	85	1553	3	1641	74	2	20	96	17	745	111	873
% App. Total	44.4	22.2	33.3		5.2	94.6	0.2		77.1	2.1	20.8		1.9	85.3	12.7	
PHF	.500	.500	.375	.750	.850	.897	.750	.914	.661	.500	.833	.727	.850	.828	.750	.820

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City of Irwindale
N/S: 4th Street
E/W: Arrow Highway
Weather: Clear

File Name : 12_IRW_4th_Arrow AM
Site Code : 22518834
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Groups Printed- Large 2 Axle Vehicles

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	19	0	19	3	0	1	4	0	13	0	13	36
07:15 AM	0	0	0	0	1	11	0	12	3	0	0	3	0	9	1	10	25
07:30 AM	0	0	0	0	0	12	0	12	2	0	1	3	0	9	2	11	26
07:45 AM	1	0	0	1	1	8	1	10	1	0	2	3	0	8	2	10	24
Total	1	0	0	1	2	50	1	53	9	0	4	13	0	39	5	44	111
08:00 AM	0	0	1	1	1	17	3	21	2	0	1	3	1	13	0	14	39
08:15 AM	0	0	0	0	2	25	0	27	2	0	0	2	0	17	3	20	49
08:30 AM	0	0	0	0	4	17	1	22	4	0	1	5	0	10	1	11	38
08:45 AM	0	0	0	0	0	16	0	16	5	0	1	6	0	9	2	11	33
Total	0	0	1	1	7	75	4	86	13	0	3	16	1	49	6	56	159
Grand Total	1	0	1	2	9	125	5	139	22	0	7	29	1	88	11	100	270
Apprch %	50	0	50		6.5	89.9	3.6		75.9	0	24.1		1	88	11		
Total %	0.4	0	0.4	0.7	3.3	46.3	1.9	51.5	8.1	0	2.6	10.7	0.4	32.6	4.1	37	

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	0	0	0	**1**	11	0	12	**3**	0	0	**3**	0	9	1	10	25
07:30 AM	0	0	0	0	0	12	0	12	2	0	1	3	0	9	**2**	11	26
07:45 AM	**1**	0	0	**1**	1	8	1	10	1	0	**2**	3	0	8	2	10	24
08:00 AM	0	0	**1**	1	1	**17**	**3**	**21**	2	0	1	3	**1**	**13**	0	**14**	**39**
Total Volume	1	0	1	2	3	48	4	55	8	0	4	12	1	39	5	45	114
% App. Total	50	0	50		5.5	87.3	7.3		66.7	0	33.3		2.2	86.7	11.1		
PHF	.250	.000	.250	.500	.750	.706	.333	.655	.667	.000	.500	1.00	.250	.750	.625	.804	.731

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City of Irwindale
N/S: 4th Street
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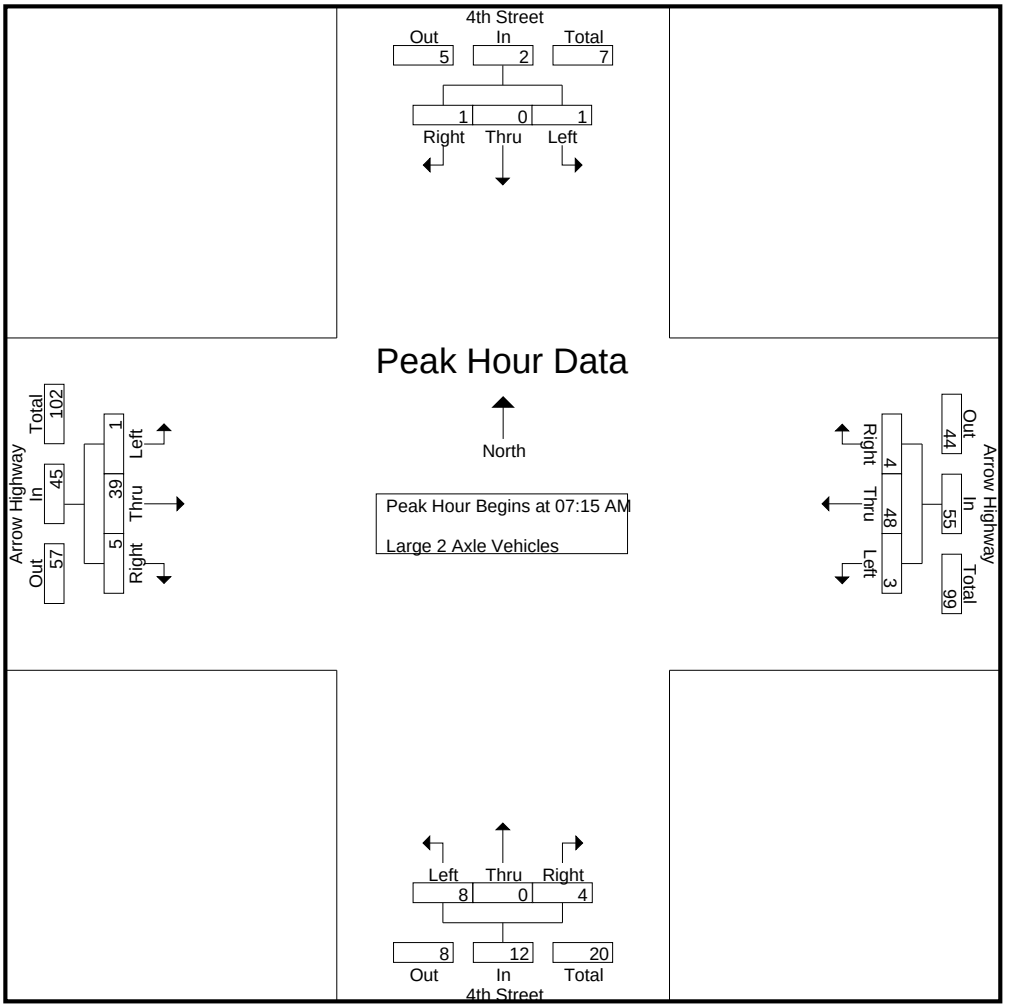

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	0	0	0	**1**	11	0	12	**3**	0	0	**3**	0	9	1	10
+15 mins.	0	0	0	0	0	12	0	12	2	0	1	3	0	9	**2**	11
+30 mins.	**1**	0	0	**1**	1	8	1	10	1	0	**2**	3	0	8	2	10
+45 mins.	0	0	**1**	1	1	**17**	**3**	**21**	2	0	1	3	**1**	**13**	0	**14**
Total Volume	1	0	1	2	3	48	4	55	8	0	4	12	1	39	5	45
% App. Total	50	0	50		5.5	87.3	7.3		66.7	0	33.3		2.2	86.7	11.1	
PHF	.250	.000	.250	.500	.750	.706	.333	.655	.667	.000	.500	1.000	.250	.750	.625	.804

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City of Irwindale
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E/W: Arrow Highway
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Groups Printed- 3 Axle Vehicles

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	6	0	6	0	0	0	0	0	2	0	2	8
07:15 AM	0	0	0	0	0	4	0	4	0	0	0	0	0	3	0	3	7
07:30 AM	0	0	0	0	0	3	0	3	1	0	0	1	0	2	0	2	6
07:45 AM	0	0	0	0	0	4	0	4	0	0	0	0	0	9	1	10	14
Total	0	0	0	0	0	17	0	17	1	0	0	1	0	16	1	17	35
08:00 AM	0	0	0	0	0	6	0	6	2	0	0	2	1	3	0	4	12
08:15 AM	0	0	0	0	0	7	0	7	0	0	0	0	0	3	0	3	10
08:30 AM	0	0	0	0	0	6	0	6	1	0	0	1	0	6	0	6	13
08:45 AM	0	0	1	1	0	3	1	4	0	0	0	0	0	5	1	6	11
Total	0	0	1	1	0	22	1	23	3	0	0	3	1	17	1	19	46
Grand Total	0	0	1	1	0	39	1	40	4	0	0	4	1	33	2	36	81
Apprch %	0	0	100		0	97.5	2.5		100	0	0		2.8	91.7	5.6		
Total %	0	0	1.2	1.2	0	48.1	1.2	49.4	4.9	0	0	4.9	1.2	40.7	2.5	44.4	

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	0	0	0	0	4	0	4	0	0	0	0	0	3	0	3	7
07:30 AM	0	0	0	0	0	3	0	3	1	0	0	1	0	2	0	2	6
07:45 AM	0	0	0	0	0	4	0	4	0	0	0	0	0	**9**	**1**	**10**	**14**
08:00 AM	0	0	0	0	0	**6**	0	**6**	**2**	0	0	**2**	**1**	3	0	4	12
Total Volume	0	0	0	0	0	17	0	17	3	0	0	3	1	17	1	19	39
% App. Total	0	0	0		0	100	0		100	0	0		5.3	89.5	5.3		
PHF	.000	.000	.000	.000	.000	.708	.000	.708	.375	.000	.000	.375	.250	.472	.250	.475	.696

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City of Irwindale
N/S: 4th Street
E/W: Arrow Highway
Weather: Clear

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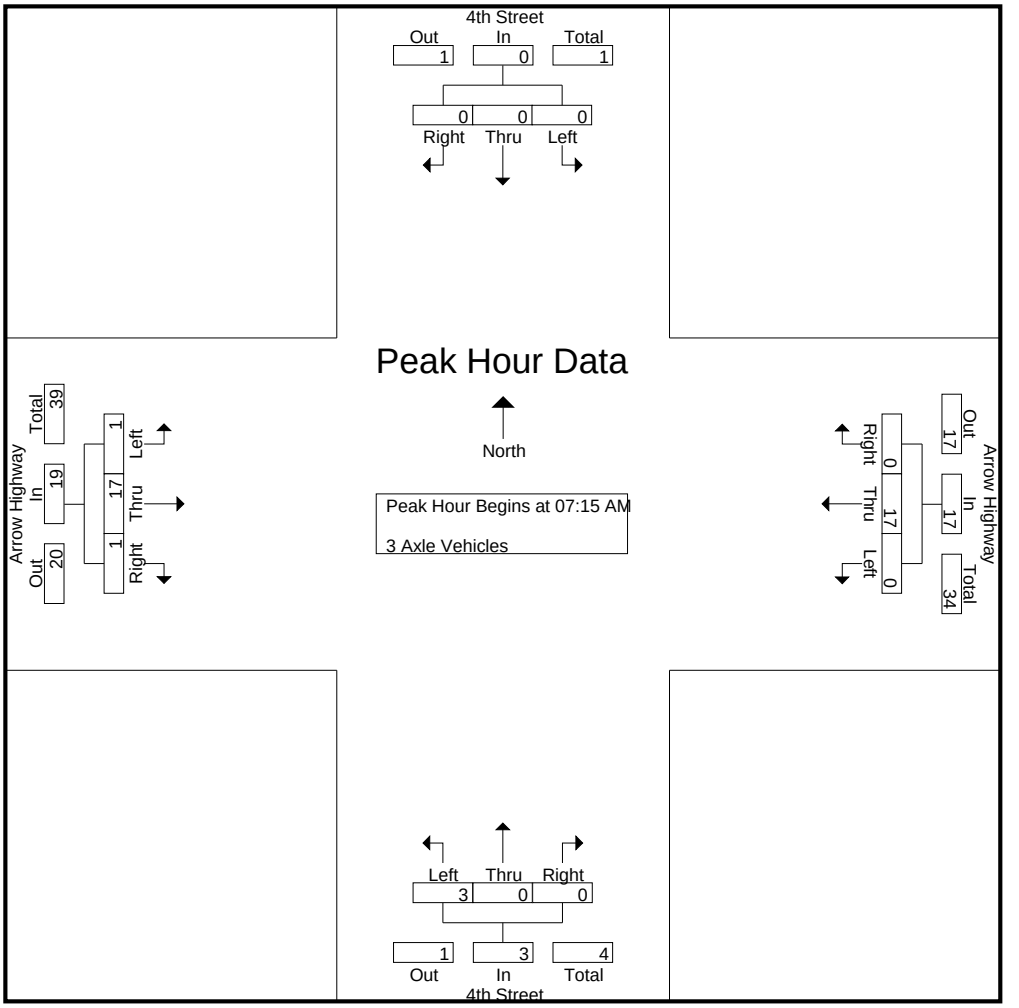

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	0	0	0	0	4	0	4	0	0	0	0	0	3	0	3
+15 mins.	0	0	0	0	0	3	0	3	1	0	0	1	0	2	0	2
+30 mins.	0	0	0	0	0	4	0	4	0	0	0	0	0	**9**	**1**	**10**
+45 mins.	0	0	0	0	0	**6**	0	**6**	**2**	0	0	**2**	**1**	3	0	4
Total Volume	0	0	0	0	0	17	0	17	3	0	0	3	1	17	1	19
% App. Total	0	0	0		0	100	0		100	0	0		5.3	89.5	5.3	
PHF	.000	.000	.000	.000	.000	.708	.000	.708	.375	.000	.000	.375	.250	.472	.250	.475

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City of Irwindale
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Groups Printed- 4+ Axle Trucks

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	8	0	8	0	0	0	0	0	5	0	5	13
07:15 AM	0	0	0	0	0	7	0	7	0	0	0	0	0	1	1	2	9
07:30 AM	0	0	0	0	1	6	0	7	1	0	0	1	0	3	1	4	12
07:45 AM	0	0	0	0	0	5	0	5	0	0	1	1	0	3	4	7	13
Total	0	0	0	0	1	26	0	27	1	0	1	2	0	12	6	18	47
08:00 AM	0	0	0	0	0	4	0	4	2	0	0	2	0	5	1	6	12
08:15 AM	0	0	0	0	1	7	0	8	0	0	1	1	0	5	1	6	15
08:30 AM	0	0	0	0	1	3	0	4	2	0	1	3	0	15	2	17	24
08:45 AM	0	0	0	0	1	16	0	17	2	0	1	3	0	9	0	9	29
Total	0	0	0	0	3	30	0	33	6	0	3	9	0	34	4	38	80
Grand Total	0	0	0	0	4	56	0	60	7	0	4	11	0	46	10	56	127
Apprch %	0	0	0		6.7	93.3	0		63.6	0	36.4		0	82.1	17.9		
Total %	0	0	0	0	3.1	44.1	0	47.2	5.5	0	3.1	8.7	0	36.2	7.9	44.1	

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	0	0	0	0	**7**	0	**7**	0	0	0	0	0	1	1	2	9
07:30 AM	0	0	0	0	**1**	6	0	7	1	0	0	1	0	3	1	4	12
07:45 AM	0	0	0	0	0	5	0	5	0	0	**1**	1	0	3	**4**	**7**	**13**
08:00 AM	0	0	0	0	0	4	0	4	**2**	0	0	**2**	0	**5**	1	6	12
Total Volume	0	0	0	0	1	22	0	23	3	0	1	4	0	12	7	19	46
% App. Total	0	0	0		4.3	95.7	0		75	0	25		0	63.2	36.8		
PHF	.000	.000	.000	.000	.250	.786	.000	.821	.375	.000	.250	.500	.000	.600	.438	.679	.885

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City of Irwindale
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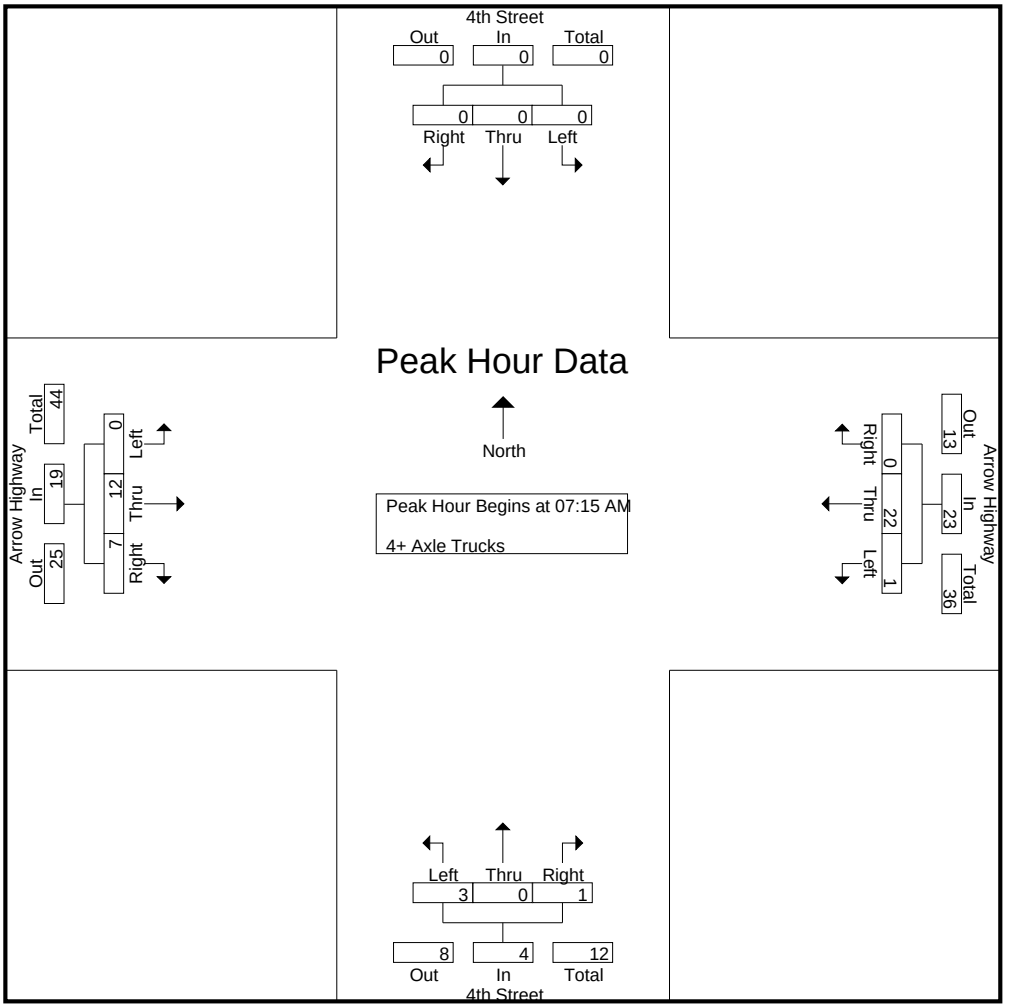

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:15 AM				07:15 AM				07:15 AM			
+0 mins.	0	0	0	0	0	**7**	0	**7**	0	0	0	0	0	1	1	2
+15 mins.	0	0	0	0	**1**	6	0	7	1	0	0	1	0	3	1	4
+30 mins.	0	0	0	0	0	5	0	5	0	0	**1**	1	0	3	**4**	**7**
+45 mins.	0	0	0	0	0	4	0	4	**2**	0	0	**2**	0	**5**	1	6
Total Volume	0	0	0	0	1	22	0	23	3	0	1	4	0	12	7	19
% App. Total	0	0	0		4.3	95.7	0		75	0	25		0	63.2	36.8	
PHF	.000	.000	.000	.000	.250	.786	.000	.821	.375	.000	.250	.500	.000	.600	.438	.679

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City of Irwindale
N/S: 4th Street
E/W: Arrow Highway
Weather: Clear

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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	4	4	3	11	23	229	2	254	34	1	24	59	0	488	21	509	833
04:15 PM	7	1	3	11	13	231	0	244	35	1	11	47	5	484	19	508	810
04:30 PM	3	1	4	8	13	241	0	254	33	0	15	48	2	533	17	552	862
04:45 PM	2	0	4	6	17	243	1	261	29	0	9	38	2	531	17	550	855
Total	16	6	14	36	66	944	3	1013	131	2	59	192	9	2036	74	2119	3360
05:00 PM	1	2	6	9	11	239	1	251	57	0	9	66	1	511	21	533	859
05:15 PM	2	2	5	9	21	209	3	233	35	1	12	48	3	544	19	566	856
05:30 PM	1	1	5	7	12	208	0	220	47	1	8	56	2	526	14	542	825
05:45 PM	0	0	5	5	11	251	0	262	22	0	9	31	4	523	18	545	843
Total	4	5	21	30	55	907	4	966	161	2	38	201	10	2104	72	2186	3383
Grand Total	20	11	35	66	121	1851	7	1979	292	4	97	393	19	4140	146	4305	6743
Apprch %	30.3	16.7	53		6.1	93.5	0.4		74.3	1	24.7		0.4	96.2	3.4		
Total %	0.3	0.2	0.5	1	1.8	27.5	0.1	29.3	4.3	0.1	1.4	5.8	0.3	61.4	2.2	63.8	
Passenger Vehicles	19	7	34	60	113	1731	6	1850	275	1	88	364	19	3968	121	4108	6382
% Passenger Vehicles	95	63.6	97.1	90.9	93.4	93.5	85.7	93.5	94.2	25	90.7	92.6	100	95.8	82.9	95.4	94.6
Large 2 Axle Vehicles	1	3	0	4	5	66	1	72	9	3	5	17	0	122	21	143	236
% Large 2 Axle Vehicles	5	27.3	0	6.1	4.1	3.6	14.3	3.6	3.1	75	5.2	4.3	0	2.9	14.4	3.3	3.5
3 Axle Vehicles	0	0	0	0	0	30	0	30	1	0	0	1	0	15	0	15	46
% 3 Axle Vehicles	0	0	0	0	0	1.6	0	1.5	0.3	0	0	0.3	0	0.4	0	0.3	0.7
4+ Axle Trucks	0	1	1	2	3	24	0	27	7	0	4	11	0	35	4	39	79
% 4+ Axle Trucks	0	9.1	2.9	3	2.5	1.3	0	1.4	2.4	0	4.1	2.8	0	0.8	2.7	0.9	1.2

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	**3**	1	4	8	13	241	0	254	33	0	**15**	48	2	533	17	552	**862**
04:45 PM	2	0	4	6	17	**243**	1	**261**	29	0	9	38	2	531	17	550	855
05:00 PM	1	**2**	**6**	**9**	11	239	1	251	**57**	0	9	**66**	1	511	**21**	533	859
05:15 PM	2	2	5	9	**21**	209	**3**	233	35	**1**	12	48	**3**	**544**	19	**566**	856
Total Volume	8	5	19	32	62	932	5	999	154	1	45	200	8	2119	74	2201	3432
% App. Total	25	15.6	59.4		6.2	93.3	0.5		77	0.5	22.5		0.4	96.3	3.4		
PHF	.667	.625	.792	.889	.738	.959	.417	.957	.675	.250	.750	.758	.667	.974	.881	.972	.995

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City of Irwindale
N/S: 4th Street
E/W: Arrow Highway
Weather: Clear

File Name : 12_IRW_4th_Arrow PM
Site Code : 22518834
Start Date : 11/1/2018
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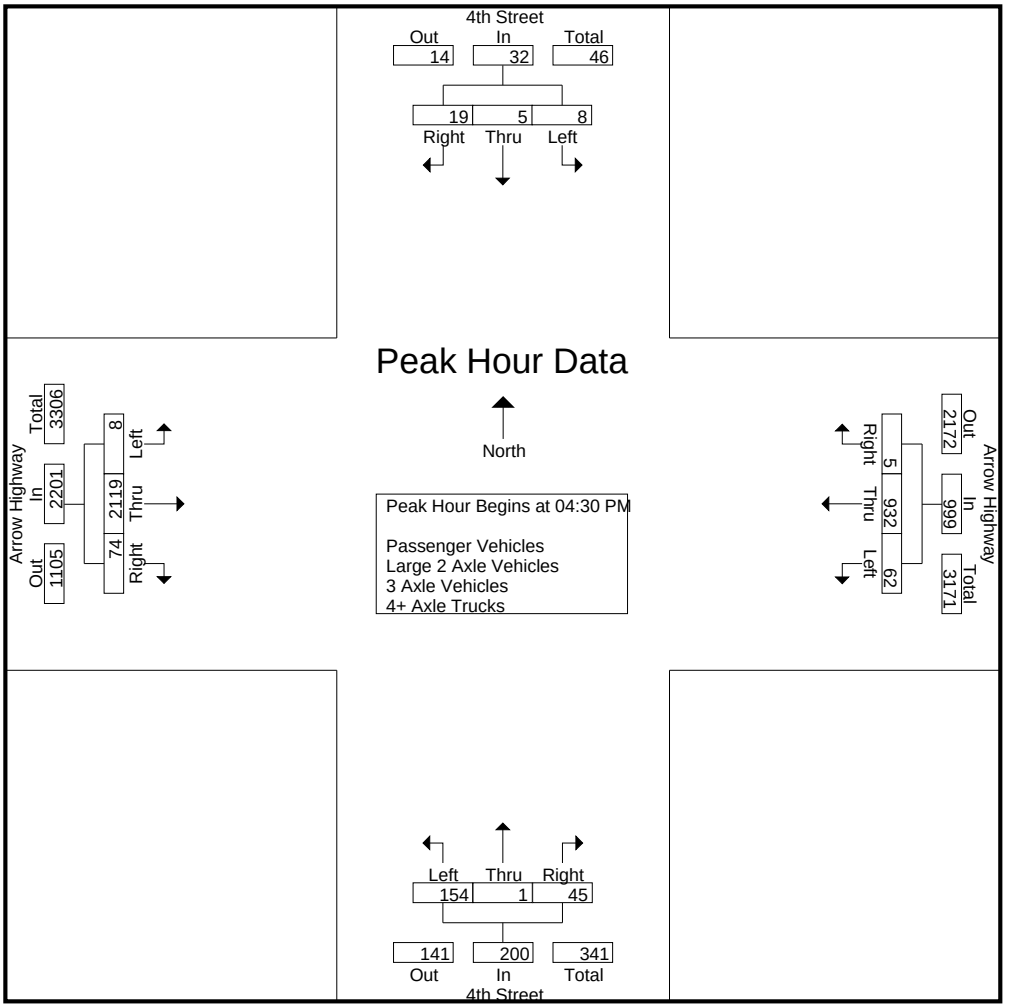

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:00 PM				04:45 PM				04:30 PM			
+0 mins.	4	**4**	3	**11**	**23**	229	**2**	254	29	0	9	38	2	533	17	552
+15 mins.	**7**	1	3	11	13	231	0	244	**57**	0	9	**66**	2	531	17	550
+30 mins.	3	1	**4**	8	13	241	0	254	35	**1**	**12**	48	1	511	**21**	533
+45 mins.	2	0	4	6	17	**243**	1	**261**	47	1	8	56	**3**	**544**	19	**566**
Total Volume	16	6	14	36	66	944	3	1013	168	2	38	208	8	2119	74	2201
% App. Total	44.4	16.7	38.9		6.5	93.2	0.3		80.8	1	18.3		0.4	96.3	3.4	
PHF	.571	.375	.875	.818	.717	.971	.375	.970	.737	.500	.792	.788	.667	.974	.881	.972

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City of Irwindale
N/S: 4th Street
E/W: Arrow Highway
Weather: Clear

File Name : 12_IRW_4th_Arrow PM
Site Code : 22518834
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Groups Printed- Passenger Vehicles

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	4	3	3	10	19	205	2	226	31	0	23	54	0	459	18	477	767
04:15 PM	6	0	3	9	13	219	0	232	33	0	10	43	5	459	17	481	765
04:30 PM	3	1	4	8	12	218	0	230	30	0	15	45	2	512	12	526	809
04:45 PM	2	0	3	5	16	223	1	240	28	0	7	35	2	501	11	514	794
Total	15	4	13	32	60	865	3	928	122	0	55	177	9	1931	58	1998	3135
05:00 PM	1	1	6	8	11	225	0	236	55	0	9	64	1	494	19	514	822
05:15 PM	2	1	5	8	21	197	3	221	34	0	12	46	3	529	16	548	823
05:30 PM	1	1	5	7	11	202	0	213	46	1	6	53	2	510	12	524	797
05:45 PM	0	0	5	5	10	242	0	252	18	0	6	24	4	504	16	524	805
Total	4	3	21	28	53	866	3	922	153	1	33	187	10	2037	63	2110	3247
Grand Total	19	7	34	60	113	1731	6	1850	275	1	88	364	19	3968	121	4108	6382
Apprch %	31.7	11.7	56.7		6.1	93.6	0.3		75.5	0.3	24.2		0.5	96.6	2.9		
Total %	0.3	0.1	0.5	0.9	1.8	27.1	0.1	29	4.3	0	1.4	5.7	0.3	62.2	1.9	64.4	

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	**3**	**1**	4	**8**	12	218	0	230	30	0	**15**	45	2	512	12	526	809
04:45 PM	2	0	3	5	16	223	1	**240**	28	0	7	35	2	501	11	514	794
05:00 PM	1	1	**6**	8	11	**225**	0	236	**55**	0	9	**64**	1	494	**19**	514	822
05:15 PM	2	1	5	8	**21**	197	**3**	221	34	0	12	46	**3**	**529**	16	**548**	**823**
Total Volume	8	3	18	29	60	863	4	927	147	0	43	190	8	2036	58	2102	3248
% App. Total	27.6	10.3	62.1		6.5	93.1	0.4		77.4	0	22.6		0.4	96.9	2.8		
PHF	.667	.750	.750	.906	.714	.959	.333	.966	.668	.000	.717	.742	.667	.962	.763	.959	.987

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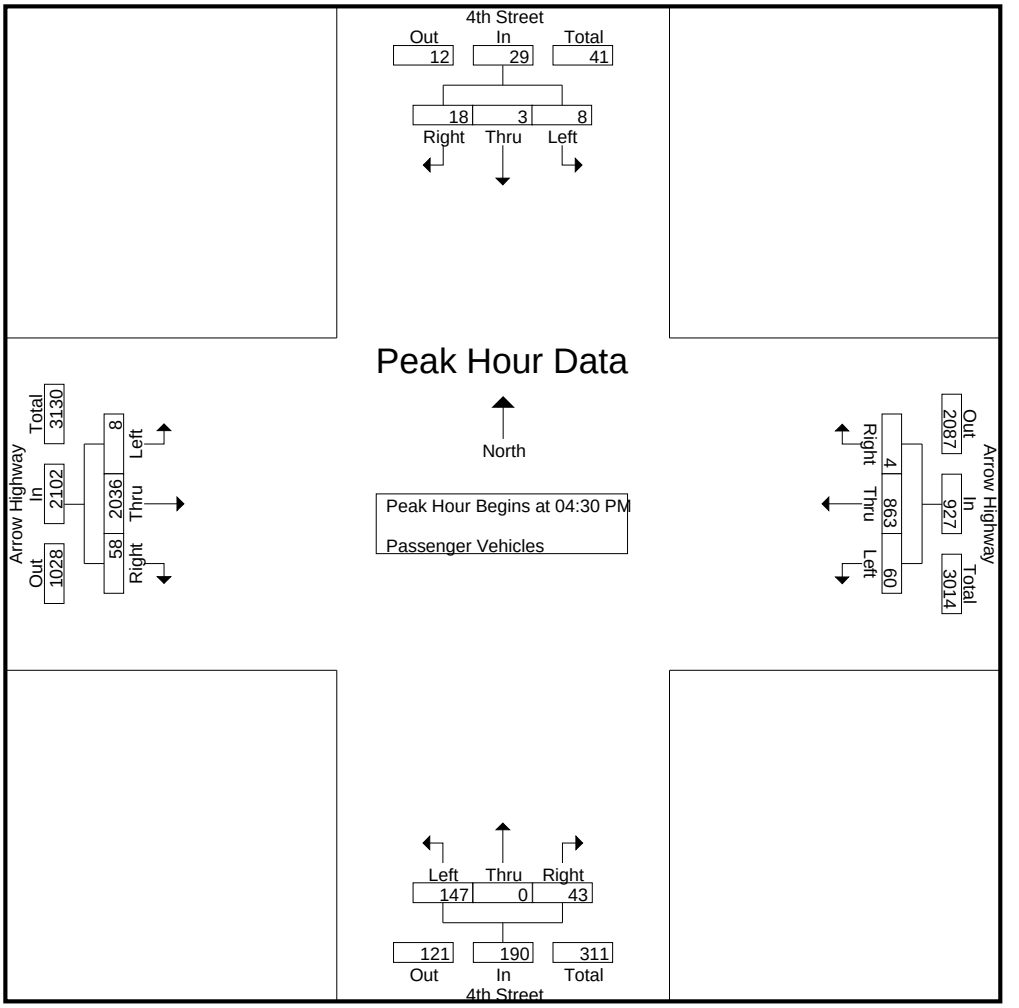

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	**3**	**1**	4	**8**	12	218	0	230	30	0	**15**	45	2	512	12	526
+15 mins.	2	0	3	5	16	223	1	**240**	28	0	7	35	2	501	11	514
+30 mins.	1	1	**6**	8	11	**225**	0	236	**55**	0	9	**64**	1	494	**19**	514
+45 mins.	2	1	5	8	**21**	197	**3**	221	34	0	12	46	**3**	**529**	16	**548**
Total Volume	8	3	18	29	60	863	4	927	147	0	43	190	8	2036	58	2102
% App. Total	27.6	10.3	62.1		6.5	93.1	0.4		77.4	0	22.6		0.4	96.9	2.8	
PHF	.667	.750	.750	.906	.714	.959	.333	.966	.668	.000	.717	.742	.667	.962	.763	.959

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File Name : 12_IRW_4th_Arrow PM
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Groups Printed- Large 2 Axle Vehicles

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	1	0	1	2	15	0	17	1	1	1	3	0	18	3	21	42
04:15 PM	1	0	0	1	0	8	0	8	1	1	0	2	0	18	2	20	31
04:30 PM	0	0	0	0	1	12	0	13	2	0	0	2	0	17	4	21	36
04:45 PM	0	0	0	0	1	9	0	10	0	0	2	2	0	25	5	30	42
Total	1	1	0	2	4	44	0	48	4	2	3	9	0	78	14	92	151
05:00 PM	0	1	0	1	0	9	1	10	1	0	0	1	0	13	2	15	27
05:15 PM	0	1	0	1	0	4	0	4	1	1	0	2	0	11	2	13	20
05:30 PM	0	0	0	0	1	2	0	3	1	0	1	2	0	8	2	10	15
05:45 PM	0	0	0	0	0	7	0	7	2	0	1	3	0	12	1	13	23
Total	0	2	0	2	1	22	1	24	5	1	2	8	0	44	7	51	85
Grand Total	1	3	0	4	5	66	1	72	9	3	5	17	0	122	21	143	236
Apprch %	25	75	0		6.9	91.7	1.4		52.9	17.6	29.4		0	85.3	14.7		
Total %	0.4	1.3	0	1.7	2.1	28	0.4	30.5	3.8	1.3	2.1	7.2	0	51.7	8.9	60.6	

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	0	0	0	**1**	**12**	0	**13**	**2**	0	0	**2**	0	17	4	21	36
04:45 PM	0	0	0	0	1	9	0	10	0	0	**2**	2	0	**25**	**5**	**30**	**42**
05:00 PM	0	**1**	0	**1**	0	9	**1**	10	1	0	0	1	0	13	2	15	27
05:15 PM	0	1	0	1	0	4	0	4	1	**1**	0	2	0	11	2	13	20
Total Volume	0	2	0	2	2	34	1	37	4	1	2	7	0	66	13	79	125
% App. Total	0	100	0		5.4	91.9	2.7		57.1	14.3	28.6		0	83.5	16.5		
PHF	.000	.500	.000	.500	.500	.708	.250	.712	.500	.250	.250	.875	.000	.660	.650	.658	.744

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City of Irwindale
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Weather: Clear

File Name : 12_IRW_4th_Arrow PM
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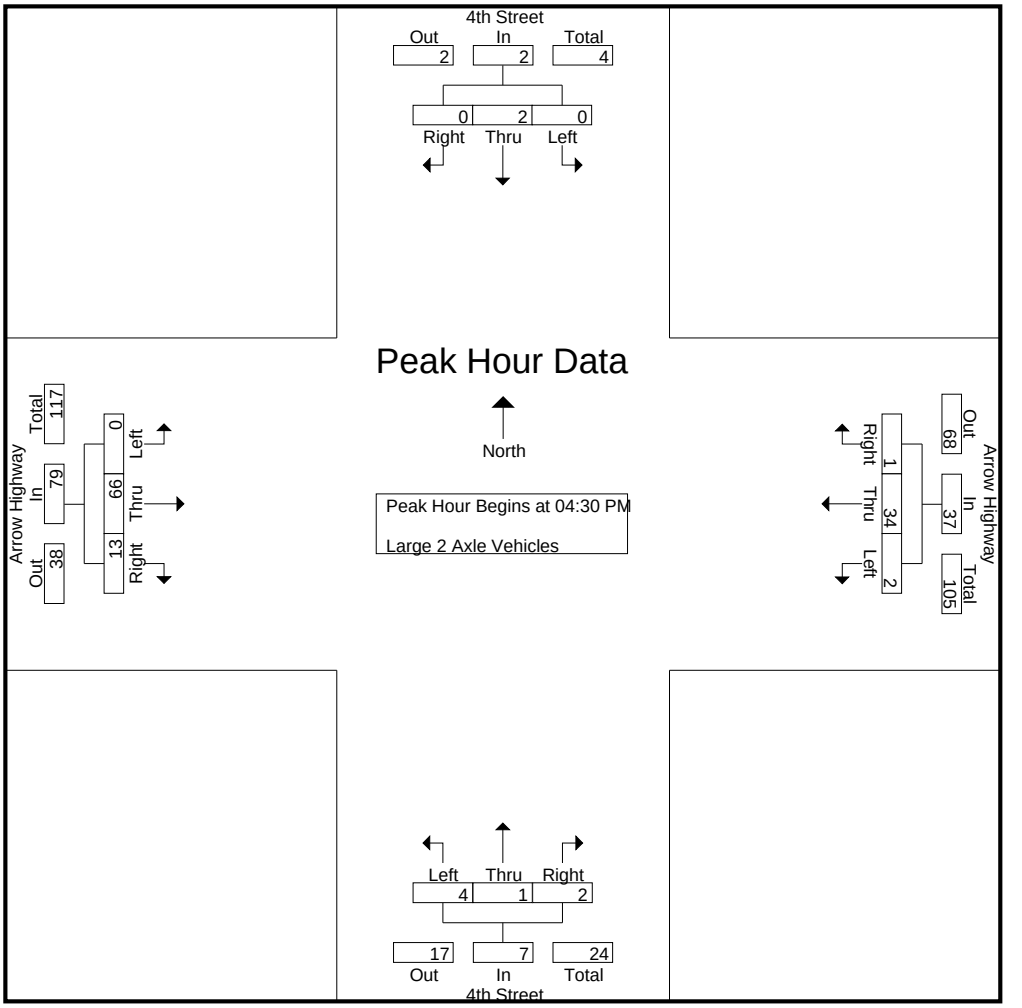

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	0	0	0	**1**	**12**	0	**13**	**2**	0	0	**2**	0	17	4	21
+15 mins.	0	0	0	0	1	9	0	10	0	0	**2**	2	0	**25**	**5**	**30**
+30 mins.	0	**1**	0	**1**	0	9	**1**	10	1	0	0	1	0	13	2	15
+45 mins.	0	1	0	1	0	4	0	4	1	**1**	0	2	0	11	2	13
Total Volume	0	2	0	2	2	34	1	37	4	1	2	7	0	66	13	79
% App. Total	0	100	0		5.4	91.9	2.7		57.1	14.3	28.6		0	83.5	16.5	
PHF	.000	.500	.000	.500	.500	.708	.250	.712	.500	.250	.250	.875	.000	.660	.650	.658

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City of Irwindale
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Weather: Clear

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Groups Printed- 3 Axle Vehicles

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	5	0	5	0	0	0	0	0	5	0	5	10
04:15 PM	0	0	0	0	0	3	0	3	0	0	0	0	0	2	0	2	5
04:30 PM	0	0	0	0	0	6	0	6	1	0	0	1	0	1	0	1	8
04:45 PM	0	0	0	0	0	7	0	7	0	0	0	0	0	1	0	1	8
Total	0	0	0	0	0	21	0	21	1	0	0	1	0	9	0	9	31
05:00 PM	0	0	0	0	0	4	0	4	0	0	0	0	0	2	0	2	6
05:15 PM	0	0	0	0	0	2	0	2	0	0	0	0	0	1	0	1	3
05:30 PM	0	0	0	0	0	3	0	3	0	0	0	0	0	2	0	2	5
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Total	0	0	0	0	0	9	0	9	0	0	0	0	0	6	0	6	15
Grand Total	0	0	0	0	0	30	0	30	1	0	0	1	0	15	0	15	46
Apprch %	0	0	0		0	100	0		100	0	0		0	100	0		
Total %	0	0	0	0	0	65.2	0	65.2	2.2	0	0	2.2	0	32.6	0	32.6	

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	0	0	0	0	6	0	6	**1**	0	0	**1**	0	1	0	1	**8**
04:45 PM	0	0	0	0	0	**7**	0	**7**	0	0	0	0	0	1	0	1	8
05:00 PM	0	0	0	0	0	4	0	4	0	0	0	0	0	**2**	0	**2**	6
05:15 PM	0	0	0	0	0	2	0	2	0	0	0	0	0	1	0	1	3
Total Volume	0	0	0	0	0	19	0	19	1	0	0	1	0	5	0	5	25
% App. Total	0	0	0		0	100	0		100	0	0		0	100	0		
PHF	.000	.000	.000	.000	.000	.679	.000	.679	.250	.000	.000	.250	.000	.625	.000	.625	.781

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City of Irwindale
N/S: 4th Street
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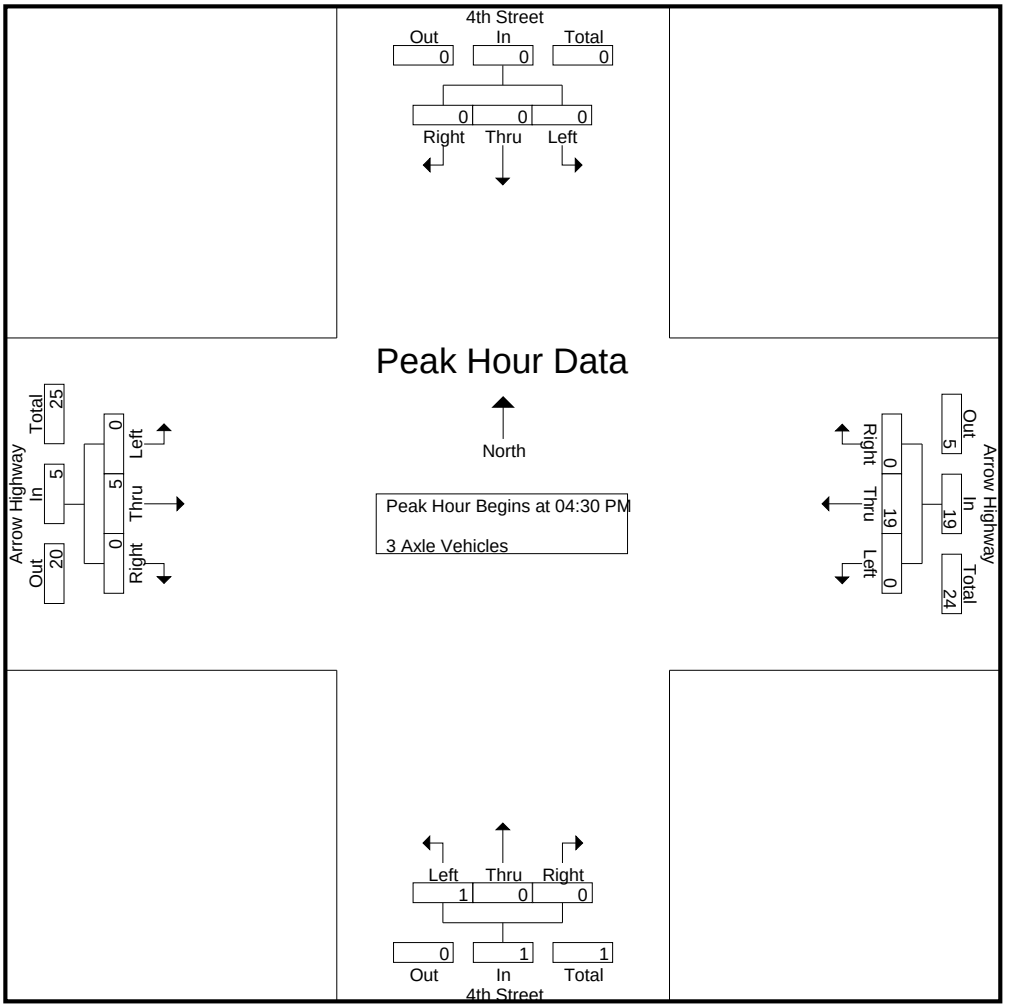

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	0	0	0	0	6	0	6	**1**	0	0	**1**	0	1	0	1
+15 mins.	0	0	0	0	0	**7**	0	**7**	0	0	0	0	0	1	0	1
+30 mins.	0	0	0	0	0	4	0	4	0	0	0	0	0	**2**	0	**2**
+45 mins.	0	0	0	0	0	2	0	2	0	0	0	0	0	1	0	1
Total Volume	0	0	0	0	0	19	0	19	1	0	0	1	0	5	0	5
% App. Total	0	0	0		0	100	0		100	0	0		0	100	0	
PHF	.000	.000	.000	.000	.000	.679	.000	.679	.250	.000	.000	.250	.000	.625	.000	.625

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City of Irwindale
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Groups Printed- 4+ Axle Trucks

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	2	4	0	6	2	0	0	2	0	6	0	6	14
04:15 PM	0	1	0	1	0	1	0	1	1	0	1	2	0	5	0	5	9
04:30 PM	0	0	0	0	0	5	0	5	0	0	0	0	0	3	1	4	9
04:45 PM	0	0	1	1	0	4	0	4	1	0	0	1	0	4	1	5	11
Total	0	1	1	2	2	14	0	16	4	0	1	5	0	18	2	20	43
05:00 PM	0	0	0	0	0	1	0	1	1	0	0	1	0	2	0	2	4
05:15 PM	0	0	0	0	0	6	0	6	0	0	0	0	0	3	1	4	10
05:30 PM	0	0	0	0	0	1	0	1	0	0	1	1	0	6	0	6	8
05:45 PM	0	0	0	0	1	2	0	3	2	0	2	4	0	6	1	7	14
Total	0	0	0	0	1	10	0	11	3	0	3	6	0	17	2	19	36
Grand Total	0	1	1	2	3	24	0	27	7	0	4	11	0	35	4	39	79
Apprch %	0	50	50		11.1	88.9	0		63.6	0	36.4		0	89.7	10.3		
Total %	0	1.3	1.3	2.5	3.8	30.4	0	34.2	8.9	0	5.1	13.9	0	44.3	5.1	49.4	

	4th Street Southbound				Arrow Highway Westbound				4th Street Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	0	0	0	0	5	0	5	0	0	0	0	0	3	**1**	4	9
04:45 PM	0	0	**1**	**1**	0	4	0	4	**1**	0	0	**1**	0	**4**	1	**5**	**11**
05:00 PM	0	0	0	0	0	1	0	1	1	0	0	1	0	2	0	2	4
05:15 PM	0	0	0	0	0	**6**	0	**6**	0	0	0	0	0	3	1	4	10
Total Volume	0	0	1	1	0	16	0	16	2	0	0	2	0	12	3	15	34
% App. Total	0	0	100		0	100	0		100	0	0		0	80	20		
PHF	.000	.000	.250	.250	.000	.667	.000	.667	.500	.000	.000	.500	.000	.750	.750	.750	.773

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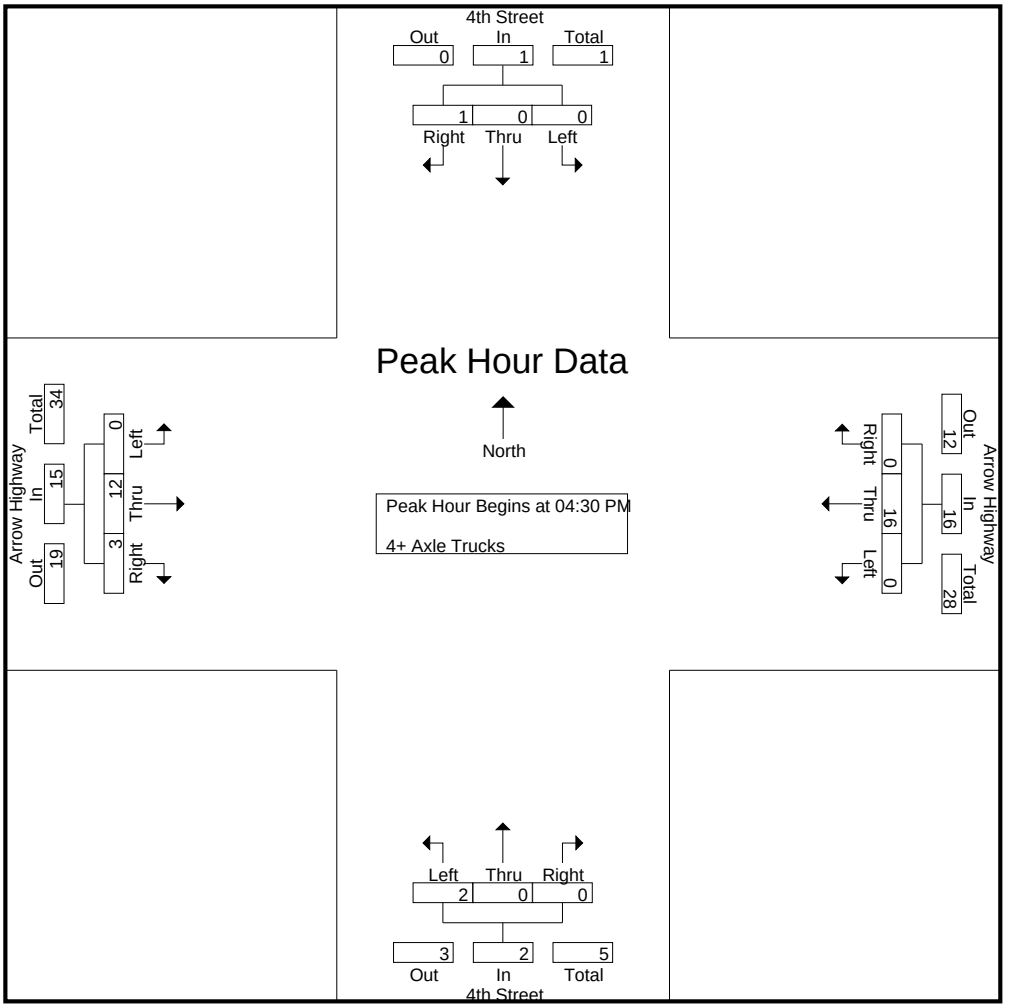
City of Irwindale
N/S: 4th Street
E/W: Arrow Highway
Weather: Clear

File Name : 12_IRW_4th_Arrow PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	0	0	0	0	5	0	5	0	0	0	0	0	3	**1**	4
+15 mins.	0	0	**1**	**1**	0	4	0	4	**1**	0	0	**1**	0	**4**	1	**5**
+30 mins.	0	0	0	0	0	1	0	1	1	0	0	1	0	2	0	2
+45 mins.	0	0	0	0	0	**6**	0	**6**	0	0	0	0	0	3	1	4
Total Volume	0	0	1	1	0	16	0	16	2	0	0	2	0	12	3	15
% App. Total	0	0	100		0	100	0		100	0	0		0	80	20	
PHF	.000	.000	.250	.250	.000	.667	.000	.667	.500	.000	.000	.500	.000	.750	.750	.750

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City of Irwindale
N/S: Irwindale Avenue
E/W: Arrow Highway
Weather: Clear

File Name : 13_IRW_Irwindale Ave_Arrow AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	13	54	114	181	13	292	8	313	42	143	7	192	47	93	9	149	835
07:15 AM	12	109	128	249	7	299	21	327	36	114	3	153	57	73	7	137	866
07:30 AM	16	123	107	246	11	290	25	326	38	139	13	190	65	116	13	194	956
07:45 AM	31	100	128	259	16	243	24	283	54	173	17	244	85	128	18	231	1017
Total	72	386	477	935	47	1124	78	1249	170	569	40	779	254	410	47	711	3674
08:00 AM	19	139	104	262	17	262	22	301	30	163	21	214	104	111	14	229	1006
08:15 AM	27	131	91	249	18	281	28	327	43	148	14	205	69	130	13	212	993
08:30 AM	38	92	75	205	34	199	32	265	41	103	12	156	66	125	11	202	828
08:45 AM	33	114	94	241	20	189	34	243	32	143	12	187	76	151	16	243	914
Total	117	476	364	957	89	931	116	1136	146	557	59	762	315	517	54	886	3741
Grand Total	189	862	841	1892	136	2055	194	2385	316	1126	99	1541	569	927	101	1597	7415
Apprch %	10	45.6	44.5		5.7	86.2	8.1		20.5	73.1	6.4		35.6	58	6.3		
Total %	2.5	11.6	11.3	25.5	1.8	27.7	2.6	32.2	4.3	15.2	1.3	20.8	7.7	12.5	1.4	21.5	
Passenger Vehicles	181	825	762	1768	128	1910	180	2218	302	1086	97	1485	510	807	96	1413	6884
% Passenger Vehicles	95.8	95.7	90.6	93.4	94.1	92.9	92.8	93	95.6	96.4	98	96.4	89.6	87.1	95	88.5	92.8
Large 2 Axle Vehicles	4	26	38	68	5	92	4	101	9	28	2	39	31	73	5	109	317
% Large 2 Axle Vehicles	2.1	3	4.5	3.6	3.7	4.5	2.1	4.2	2.8	2.5	2	2.5	5.4	7.9	5	6.8	4.3
3 Axle Vehicles	3	6	12	21	0	24	2	26	3	1	0	4	12	17	0	29	80
% 3 Axle Vehicles	1.6	0.7	1.4	1.1	0	1.2	1	1.1	0.9	0.1	0	0.3	2.1	1.8	0	1.8	1.1
4+ Axle Trucks	1	5	29	35	3	29	8	40	2	11	0	13	16	30	0	46	134
% 4+ Axle Trucks	0.5	0.6	3.4	1.8	2.2	1.4	4.1	1.7	0.6	1	0	0.8	2.8	3.2	0	2.9	1.8

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	16	123	107	246	11	**290**	25	326	38	139	13	190	65	116	13	194	956
07:45 AM	**31**	100	**128**	259	16	243	24	283	**54**	**173**	17	**244**	85	128	**18**	**231**	**1017**
08:00 AM	19	**139**	104	**262**	17	262	22	301	30	163	**21**	214	**104**	111	14	229	1006
08:15 AM	27	131	91	249	**18**	281	**28**	**327**	43	148	14	205	69	**130**	13	212	993
Total Volume	93	493	430	1016	62	1076	99	1237	165	623	65	853	323	485	58	866	3972
% App. Total	9.2	48.5	42.3		5	87	8		19.3	73	7.6		37.3	56	6.7		
PHF	.750	.887	.840	.969	.861	.928	.884	.946	.764	.900	.774	.874	.776	.933	.806	.937	.976

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City of Irwindale
N/S: Irwindale Avenue
E/W: Arrow Highway
Weather: Clear

File Name : 13_IRW_Irwindale Ave_Arrow AM
Site Code : 22518834
Start Date : 11/1/2018
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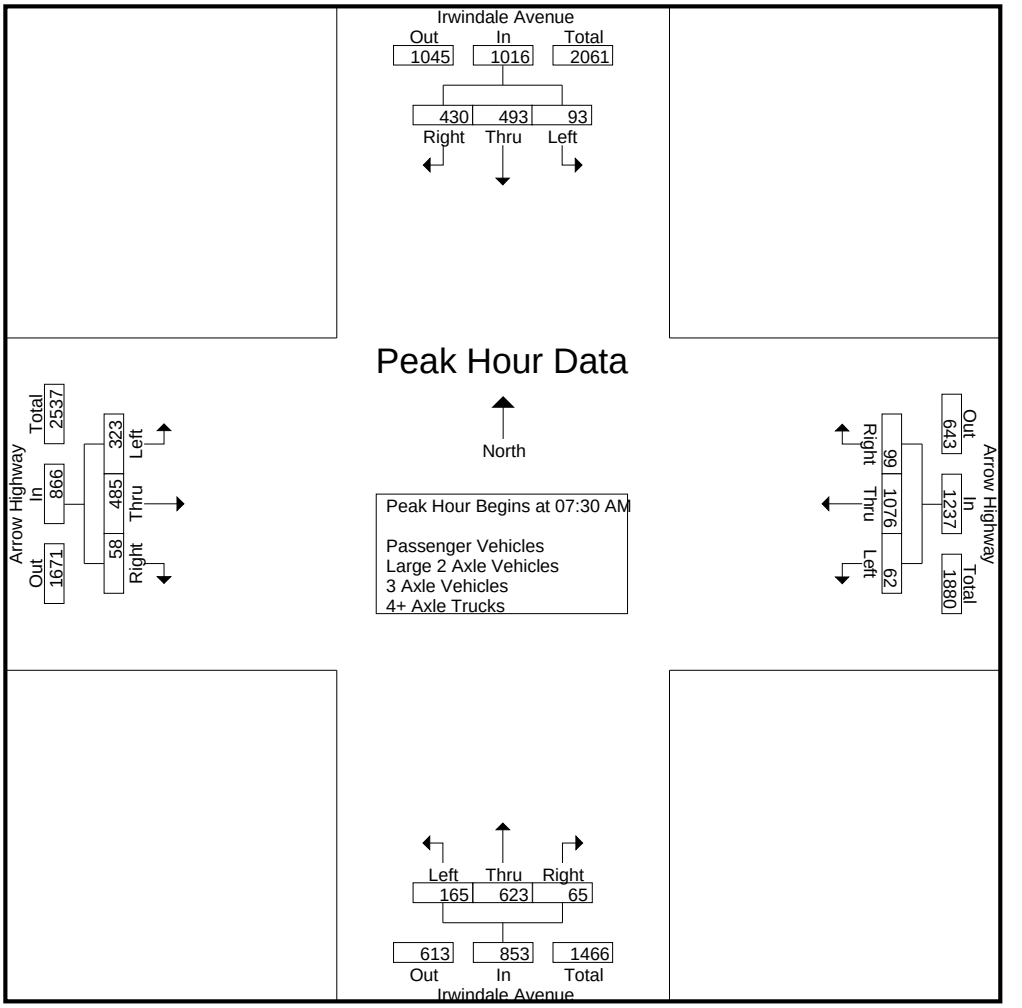

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:00 AM				07:30 AM				08:00 AM			
+0 mins.	12	109	**128**	249	13	292	8	313	38	139	13	190	**104**	111	14	229
+15 mins.	16	123	107	246	7	**299**	21	**327**	**54**	**173**	17	**244**	69	130	13	212
+30 mins.	**31**	100	128	259	11	290	**25**	326	30	163	**21**	214	66	125	11	202
+45 mins.	19	**139**	104	**262**	**16**	243	24	283	43	148	14	205	76	**151**	**16**	**243**
Total Volume	78	471	467	1016	47	1124	78	1249	165	623	65	853	315	517	54	886
% App. Total	7.7	46.4	46		3.8	90	6.2		19.3	73	7.6		35.6	58.4	6.1	
PHF	.629	.847	.912	.969	.734	.940	.780	.955	.764	.900	.774	.874	.757	.856	.844	.912

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E/W: Arrow Highway
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File Name : 13_IRW_Irwindale Ave_Arrow AM
Site Code : 22518834
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Groups Printed- Passenger Vehicles

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	13	53	107	173	11	265	5	281	40	139	7	186	44	73	6	123	763
07:15 AM	11	105	119	235	7	285	19	311	34	105	3	142	50	69	7	126	814
07:30 AM	15	118	102	235	11	279	25	315	35	135	13	183	58	106	12	176	909
07:45 AM	31	96	123	250	16	232	20	268	52	165	17	234	79	115	18	212	964
Total	70	372	451	893	45	1061	69	1175	161	544	40	745	231	363	43	637	3450
08:00 AM	18	133	97	248	15	242	22	279	29	160	21	210	95	96	14	205	942
08:15 AM	26	126	73	225	14	257	28	299	43	145	13	201	60	112	12	184	909
08:30 AM	38	87	67	192	34	178	30	242	40	100	11	151	59	100	11	170	755
08:45 AM	29	107	74	210	20	172	31	223	29	137	12	178	65	136	16	217	828
Total	111	453	311	875	83	849	111	1043	141	542	57	740	279	444	53	776	3434
Grand Total	181	825	762	1768	128	1910	180	2218	302	1086	97	1485	510	807	96	1413	6884
Apprch %	10.2	46.7	43.1		5.8	86.1	8.1		20.3	73.1	6.5		36.1	57.1	6.8		
Total %	2.6	12	11.1	25.7	1.9	27.7	2.6	32.2	4.4	15.8	1.4	21.6	7.4	11.7	1.4	20.5	

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	15	118	102	235	11	**279**	25	**315**	35	135	13	183	58	106	12	176	909
07:45 AM	**31**	96	**123**	**250**	**16**	232	20	268	**52**	**165**	17	**234**	79	**115**	**18**	**212**	**964**
08:00 AM	18	**133**	97	248	15	242	22	279	29	160	**21**	210	**95**	96	14	205	942
08:15 AM	26	126	73	225	14	257	**28**	299	43	145	13	201	60	112	12	184	909
Total Volume	90	473	395	958	56	1010	95	1161	159	605	64	828	292	429	56	777	3724
% App. Total	9.4	49.4	41.2		4.8	87	8.2		19.2	73.1	7.7		37.6	55.2	7.2		
PHF	.726	.889	.803	.958	.875	.905	.848	.921	.764	.917	.762	.885	.768	.933	.778	.916	.966

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Weather: Clear

File Name : 13_IRW_Irwindale Ave_Arrow AM
Site Code : 22518834
Start Date : 11/1/2018
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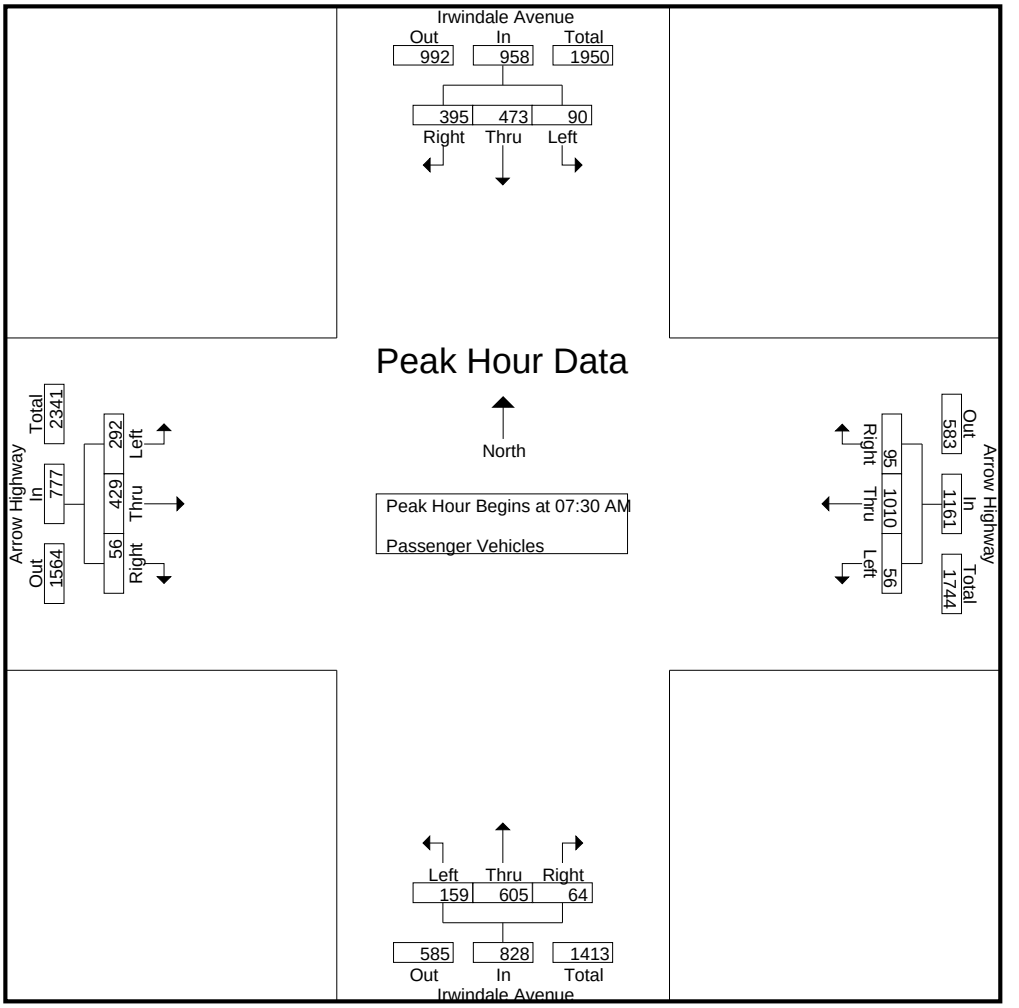

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	15	118	102	235	11	**279**	25	**315**	35	135	13	183	58	106	12	176
+15 mins.	**31**	96	**123**	**250**	**16**	232	20	268	**52**	**165**	17	**234**	79	**115**	**18**	**212**
+30 mins.	18	**133**	97	248	15	242	22	279	29	160	**21**	210	**95**	96	14	205
+45 mins.	26	126	73	225	14	257	**28**	299	43	145	13	201	60	112	12	184
Total Volume	90	473	395	958	56	1010	95	1161	159	605	64	828	292	429	56	777
% App. Total	9.4	49.4	41.2		4.8	87	8.2		19.2	73.1	7.7		37.6	55.2	7.2	
PHF	.726	.889	.803	.958	.875	.905	.848	.921	.764	.917	.762	.885	.768	.933	.778	.916

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City of Irwindale
N/S: Irwindale Avenue
E/W: Arrow Highway
Weather: Clear

File Name : 13_IRW_Irwindale Ave_Arrow AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	1	6	7	1	16	0	17	0	3	0	3	2	15	3	20	47
07:15 AM	0	2	3	5	0	8	0	8	2	8	0	10	5	4	0	9	32
07:30 AM	0	3	3	6	0	6	0	6	3	2	0	5	4	7	1	12	29
07:45 AM	0	4	3	7	0	6	1	7	2	5	0	7	2	8	0	10	31
Total	0	10	15	25	1	36	1	38	7	18	0	25	13	34	4	51	139
08:00 AM	0	4	3	7	0	15	0	15	0	3	0	3	5	10	0	15	40
08:15 AM	1	3	9	13	4	18	0	22	0	2	1	3	5	13	1	19	57
08:30 AM	0	4	5	9	0	14	1	15	0	2	1	3	3	10	0	13	40
08:45 AM	3	5	6	14	0	9	2	11	2	3	0	5	5	6	0	11	41
Total	4	16	23	43	4	56	3	63	2	10	2	14	18	39	1	58	178
Grand Total	4	26	38	68	5	92	4	101	9	28	2	39	31	73	5	109	317
Apprch %	5.9	38.2	55.9		5	91.1	4		23.1	71.8	5.1		28.4	67	4.6		
Total %	1.3	8.2	12	21.5	1.6	29	1.3	31.9	2.8	8.8	0.6	12.3	9.8	23	1.6	34.4	

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	3	3	6	0	6	0	6	**3**	2	0	5	4	7	**1**	12	29
07:45 AM	0	**4**	3	7	0	6	**1**	7	2	**5**	0	**7**	2	8	0	10	31
08:00 AM	0	4	3	7	0	15	0	15	0	3	0	3	**5**	10	0	15	40
08:15 AM	**1**	3	**9**	**13**	**4**	**18**	0	**22**	0	2	**1**	3	5	**13**	1	**19**	**57**
Total Volume	1	14	18	33	4	45	1	50	5	12	1	18	16	38	2	56	157
% App. Total	3	42.4	54.5		8	90	2		27.8	66.7	5.6		28.6	67.9	3.6		
PHF	.250	.875	.500	.635	.250	.625	.250	.568	.417	.600	.250	.643	.800	.731	.500	.737	.689

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City of Irwindale
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E/W: Arrow Highway
Weather: Clear

File Name : 13_IRW_Irwindale Ave_Arrow AM
Site Code : 22518834
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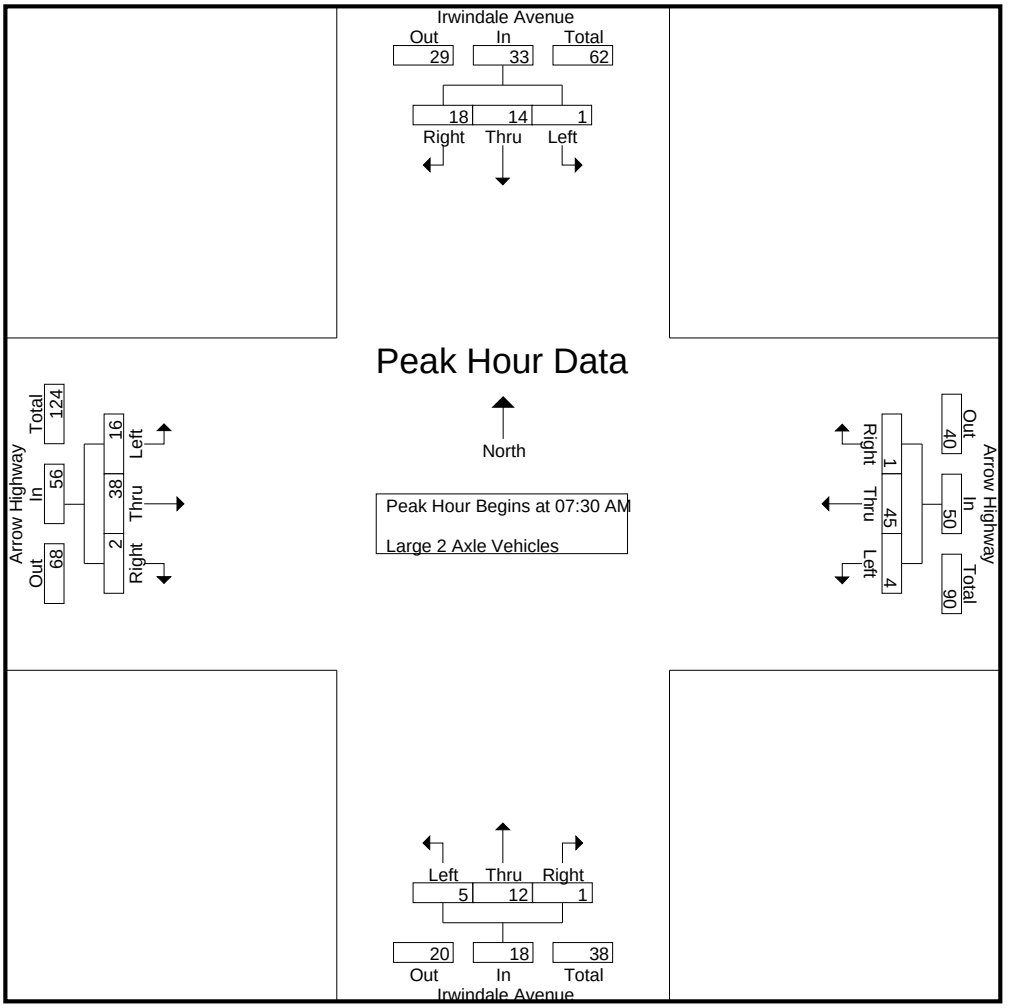

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	3	3	6	0	6	0	6	**3**	2	0	5	4	7	**1**	12
+15 mins.	0	**4**	3	7	0	6	**1**	7	2	**5**	0	**7**	2	8	0	10
+30 mins.	0	4	3	7	0	15	0	15	0	3	0	3	**5**	10	0	15
+45 mins.	**1**	3	**9**	**13**	**4**	**18**	0	**22**	0	2	**1**	3	5	**13**	1	**19**
Total Volume	1	14	18	33	4	45	1	50	5	12	1	18	16	38	2	56
% App. Total	3	42.4	54.5		8	90	2		27.8	66.7	5.6		28.6	67.9	3.6	
PHF	.250	.875	.500	.635	.250	.625	.250	.568	.417	.600	.250	.643	.800	.731	.500	.737

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City of Irwindale
N/S: Irwindale Avenue
E/W: Arrow Highway
Weather: Clear

File Name : 13_IRW_Irwindale Ave_Arrow AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- 3 Axle Vehicles

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	4	1	5	2	0	0	2	0	3	0	3	10
07:15 AM	0	1	0	1	0	3	0	3	0	0	0	0	1	0	0	1	5
07:30 AM	1	0	0	1	0	3	0	3	0	0	0	0	2	1	0	3	7
07:45 AM	0	0	1	1	0	1	0	1	0	0	0	0	0	4	0	4	6
Total	1	1	1	3	0	11	1	12	2	0	0	2	3	8	0	11	28
08:00 AM	1	0	3	4	0	3	0	3	0	0	0	0	2	2	0	4	11
08:15 AM	0	2	4	6	0	3	0	3	0	0	0	0	1	3	0	4	13
08:30 AM	0	1	1	2	0	4	1	5	1	1	0	2	3	2	0	5	14
08:45 AM	1	2	3	6	0	3	0	3	0	0	0	0	3	2	0	5	14
Total	2	5	11	18	0	13	1	14	1	1	0	2	9	9	0	18	52
Grand Total	3	6	12	21	0	24	2	26	3	1	0	4	12	17	0	29	80
Apprch %	14.3	28.6	57.1		0	92.3	7.7		75	25	0		41.4	58.6	0		
Total %	3.8	7.5	15	26.2	0	30	2.5	32.5	3.8	1.2	0	5	15	21.2	0	36.2	

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**1**	0	0	1	0	**3**	0	**3**	0	0	0	0	**2**	1	0	3	7
07:45 AM	0	0	1	1	0	1	0	1	0	0	0	0	0	**4**	0	**4**	6
08:00 AM	1	0	3	4	0	3	0	3	0	0	0	0	2	2	0	4	11
08:15 AM	0	**2**	**4**	**6**	0	3	0	3	0	0	0	0	1	3	0	4	**13**
Total Volume	2	2	8	12	0	10	0	10	0	0	0	0	5	10	0	15	37
% App. Total	16.7	16.7	66.7		0	100	0		0	0	0		33.3	66.7	0		
PHF	.500	.250	.500	.500	.000	.833	.000	.833	.000	.000	.000	.000	.625	.625	.000	.938	.712

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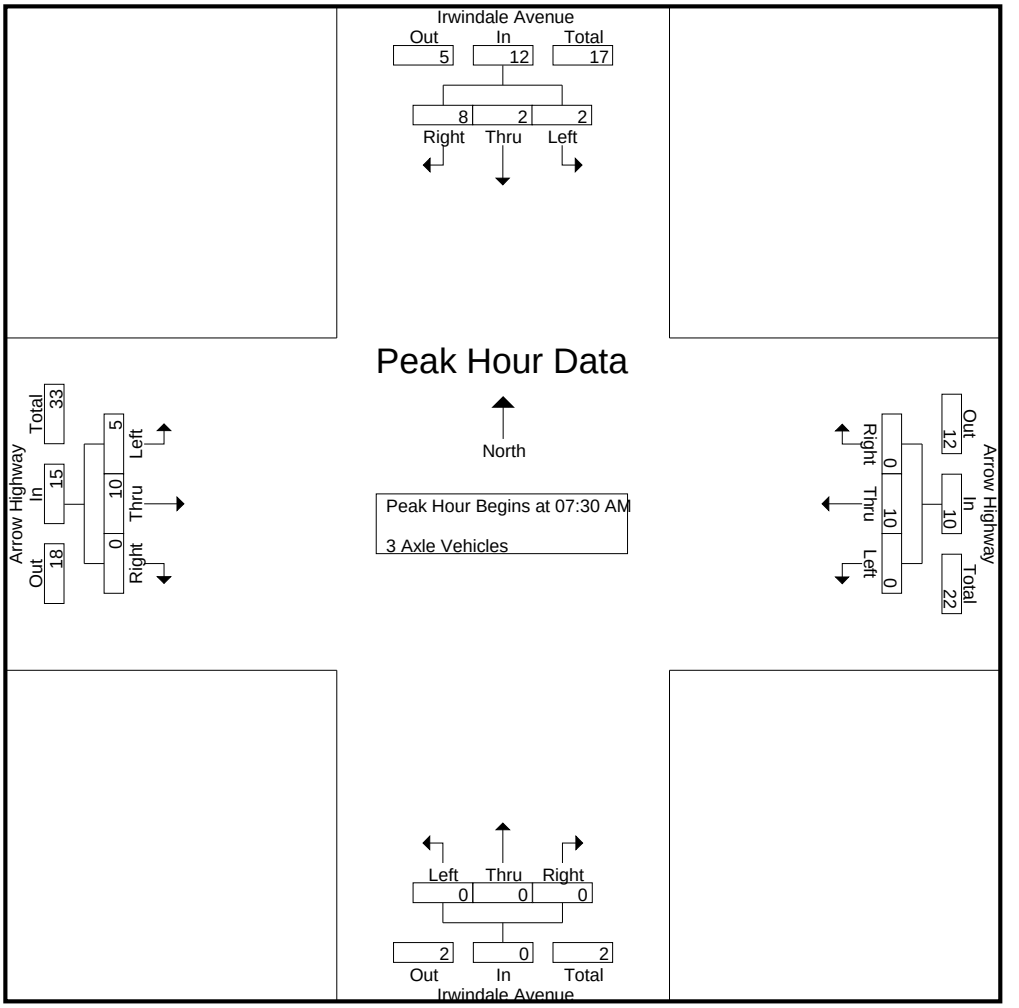
City of Irwindale
N/S: Irwindale Avenue
E/W: Arrow Highway
Weather: Clear

File Name : 13_IRW_Irwindale Ave_Arrow AM
Site Code : 22518834
Start Date : 11/1/2018



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	**1**	0	0	1	0	**3**	0	**3**	0	0	0	0	**2**	1	0	3
+15 mins.	0	0	1	1	0	1	0	1	0	0	0	0	0	**4**	0	**4**
+30 mins.	1	0	3	4	0	3	0	3	0	0	0	0	2	2	0	4
+45 mins.	0	**2**	**4**	**6**	0	3	0	3	0	0	0	0	1	3	0	4
Total Volume	2	2	8	12	0	10	0	10	0	0	0	0	5	10	0	15
% App. Total	16.7	16.7	66.7		0	100	0		0	0	0		33.3	66.7	0	
PHF	.500	.250	.500	.500	.000	.833	.000	.833	.000	.000	.000	.000	.625	.625	.000	.938

Counts Unlimited
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City of Irwindale
N/S: Irwindale Avenue
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Weather: Clear

File Name : 13_IRW_Irwindale Ave_Arrow AM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- 4+ Axle Trucks

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	1	1	1	7	2	10	0	1	0	1	1	2	0	3	15
07:15 AM	1	1	6	8	0	3	2	5	0	1	0	1	1	0	0	1	15
07:30 AM	0	2	2	4	0	2	0	2	0	2	0	2	1	2	0	3	11
07:45 AM	0	0	1	1	0	4	3	7	0	3	0	3	4	1	0	5	16
Total	1	3	10	14	1	16	7	24	0	7	0	7	7	5	0	12	57
08:00 AM	0	2	1	3	2	2	0	4	1	0	0	1	2	3	0	5	13
08:15 AM	0	0	5	5	0	3	0	3	0	1	0	1	3	2	0	5	14
08:30 AM	0	0	2	2	0	3	0	3	0	0	0	0	1	13	0	14	19
08:45 AM	0	0	11	11	0	5	1	6	1	3	0	4	3	7	0	10	31
Total	0	2	19	21	2	13	1	16	2	4	0	6	9	25	0	34	77
Grand Total	1	5	29	35	3	29	8	40	2	11	0	13	16	30	0	46	134
Apprch %	2.9	14.3	82.9		7.5	72.5	20		15.4	84.6	0		34.8	65.2	0		
Total %	0.7	3.7	21.6	26.1	2.2	21.6	6	29.9	1.5	8.2	0	9.7	11.9	22.4	0	34.3	

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	**2**	2	4	0	2	0	2	0	2	0	2	1	2	0	3	11
07:45 AM	0	0	1	1	0	**4**	**3**	**7**	0	**3**	0	**3**	**4**	1	0	**5**	**16**
08:00 AM	0	2	1	3	**2**	2	0	4	**1**	0	0	1	2	**3**	0	5	13
08:15 AM	0	0	**5**	**5**	0	3	0	3	0	1	0	1	3	2	0	5	14
Total Volume	0	4	9	13	2	11	3	16	1	6	0	7	10	8	0	18	54
% App. Total	0	30.8	69.2		12.5	68.8	18.8		14.3	85.7	0		55.6	44.4	0		
PHF	.000	.500	.450	.650	.250	.688	.250	.571	.250	.500	.000	.583	.625	.667	.000	.900	.844

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City of Irwindale
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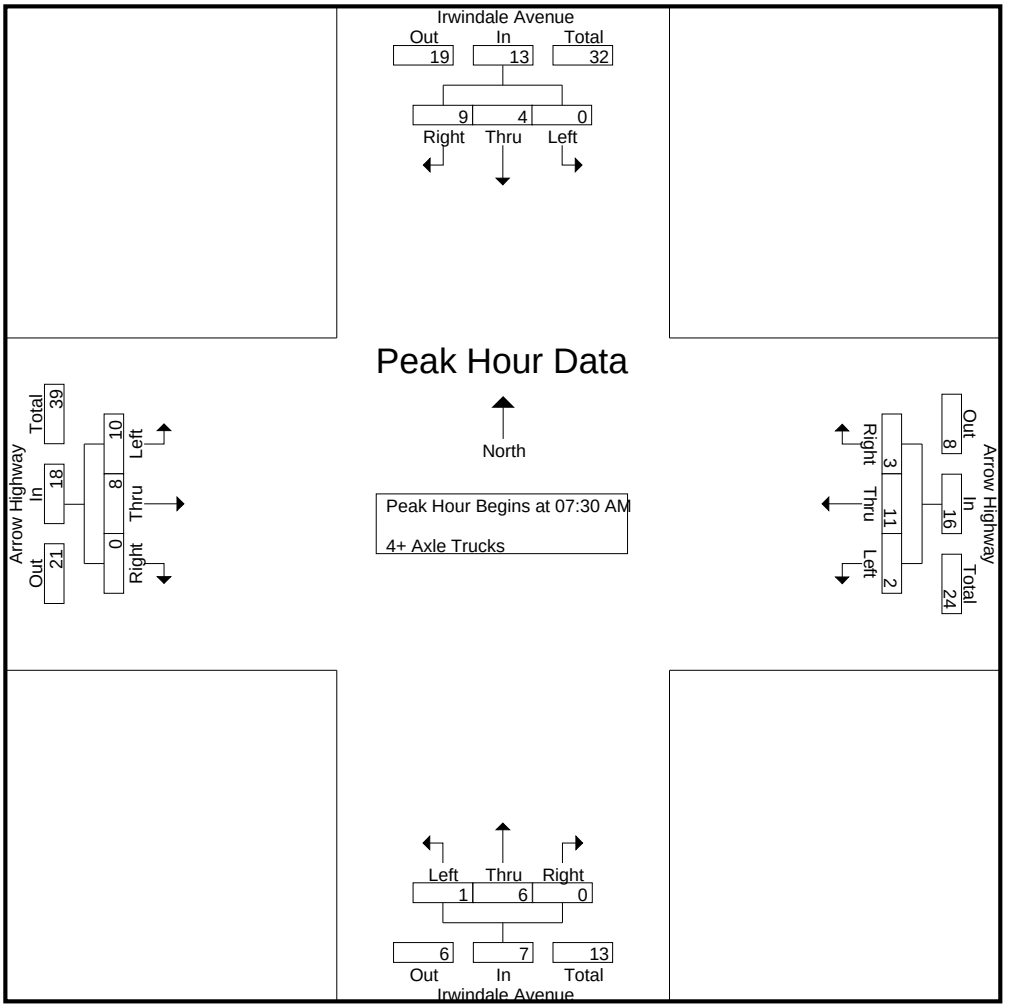

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	**2**	2	4	0	2	0	2	0	2	0	2	1	2	0	3
+15 mins.	0	0	1	1	0	**4**	**3**	**7**	0	**3**	0	**3**	**4**	1	0	**5**
+30 mins.	0	2	1	3	**2**	2	0	4	**1**	0	0	1	2	**3**	0	5
+45 mins.	0	0	**5**	**5**	0	3	0	3	0	1	0	1	3	2	0	5
Total Volume	0	4	9	13	2	11	3	16	1	6	0	7	10	8	0	18
% App. Total	0	30.8	69.2		12.5	68.8	18.8		14.3	85.7	0		55.6	44.4	0	
PHF	.000	.500	.450	.650	.250	.688	.250	.571	.250	.500	.000	.583	.625	.667	.000	.900

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City of Irwindale
N/S: Irwindale Avenue
E/W: Arrow Highway
Weather: Clear

File Name : 13_IRW_Irwindale Ave_Arrow PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	43	116	90	249	29	118	12	159	26	130	21	177	91	405	22	518	1103
04:15 PM	56	141	75	272	16	127	18	161	26	124	14	164	98	359	12	469	1066
04:30 PM	48	160	85	293	20	140	20	180	20	116	21	157	93	435	27	555	1185
04:45 PM	49	148	78	275	26	134	15	175	32	114	23	169	112	404	34	550	1169
Total	196	565	328	1089	91	519	65	675	104	484	79	667	394	1603	95	2092	4523
05:00 PM	56	217	73	346	27	135	12	174	26	141	18	185	71	374	24	469	1174
05:15 PM	54	159	61	274	23	147	23	193	13	133	27	173	129	417	33	579	1219
05:30 PM	61	168	73	302	13	125	11	149	17	104	20	141	85	436	33	554	1146
05:45 PM	43	118	77	238	17	135	16	168	23	119	16	158	103	398	26	527	1091
Total	214	662	284	1160	80	542	62	684	79	497	81	657	388	1625	116	2129	4630
Grand Total	410	1227	612	2249	171	1061	127	1359	183	981	160	1324	782	3228	211	4221	9153
Apprch %	18.2	54.6	27.2		12.6	78.1	9.3		13.8	74.1	12.1		18.5	76.5	5		
Total %	4.5	13.4	6.7	24.6	1.9	11.6	1.4	14.8	2	10.7	1.7	14.5	8.5	35.3	2.3	46.1	
Passenger Vehicles	406	1199	564	2169	167	991	124	1282	176	958	159	1293	724	3121	204	4049	8793
% Passenger Vehicles	99	97.7	92.2	96.4	97.7	93.4	97.6	94.3	96.2	97.7	99.4	97.7	92.6	96.7	96.7	95.9	96.1
Large 2 Axle Vehicles	3	20	27	50	3	40	2	45	5	19	1	25	39	83	7	129	249
% Large 2 Axle Vehicles	0.7	1.6	4.4	2.2	1.8	3.8	1.6	3.3	2.7	1.9	0.6	1.9	5	2.6	3.3	3.1	2.7
3 Axle Vehicles	1	4	8	13	0	21	0	21	1	2	0	3	3	10	0	13	50
% 3 Axle Vehicles	0.2	0.3	1.3	0.6	0	2	0	1.5	0.5	0.2	0	0.2	0.4	0.3	0	0.3	0.5
4+ Axle Trucks	0	4	13	17	1	9	1	11	1	2	0	3	16	14	0	30	61
% 4+ Axle Trucks	0	0.3	2.1	0.8	0.6	0.8	0.8	0.8	0.5	0.2	0	0.2	2	0.4	0	0.7	0.7

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	48	160	**85**	293	20	140	20	180	20	116	21	157	93	**435**	27	555	1185
04:45 PM	49	148	78	275	26	134	15	175	**32**	114	23	169	112	404	**34**	550	1169
05:00 PM	**56**	**217**	73	**346**	**27**	135	12	174	26	**141**	18	**185**	71	374	24	469	1174
05:15 PM	54	159	61	274	23	**147**	**23**	**193**	13	133	**27**	173	**129**	417	33	**579**	**1219**
Total Volume	207	684	297	1188	96	556	70	722	91	504	89	684	405	1630	118	2153	4747
% App. Total	17.4	57.6	25		13.3	77	9.7		13.3	73.7	13		18.8	75.7	5.5		
PHF	.924	.788	.874	.858	.889	.946	.761	.935	.711	.894	.824	.924	.785	.937	.868	.930	.974

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City of Irwindale
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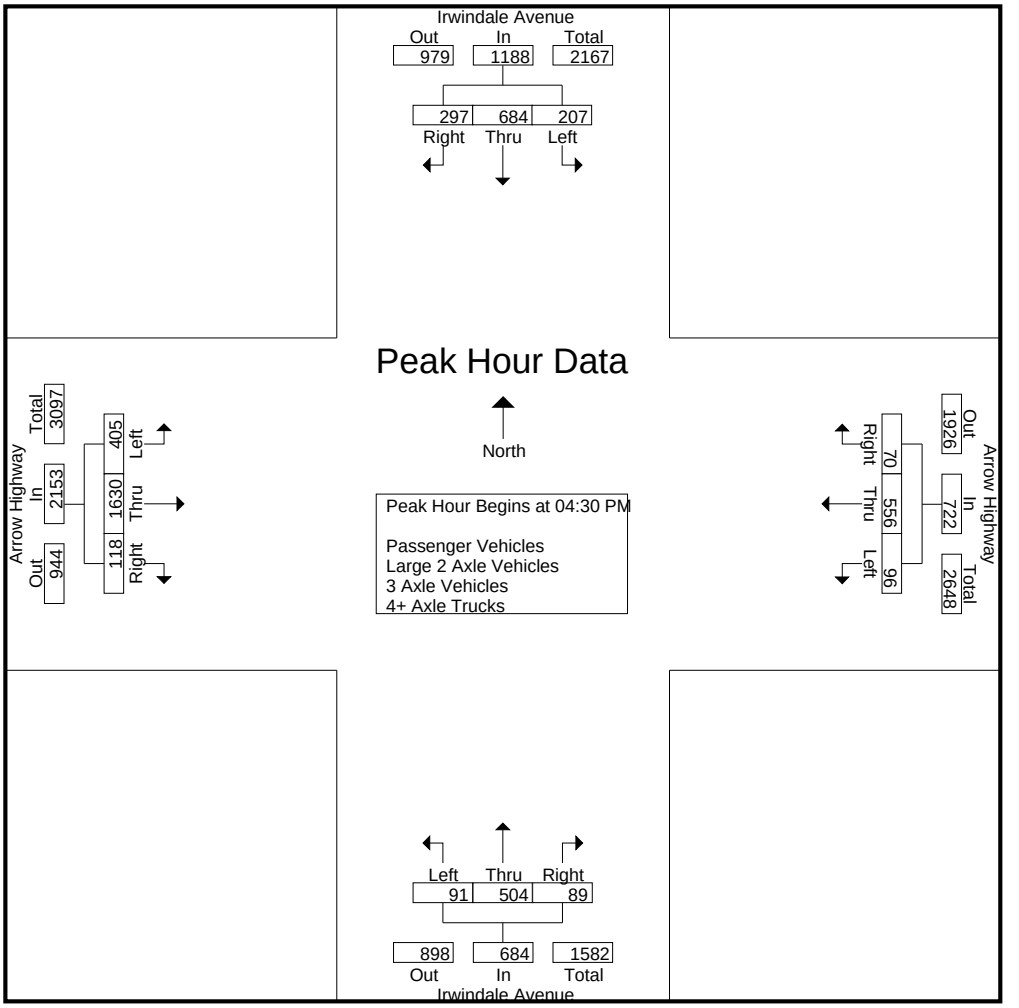

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	49	148	**78**	275	20	140	20	180	20	116	21	157	93	**435**	27	555
+15 mins.	56	**217**	73	**346**	26	134	15	175	**32**	114	23	169	112	404	**34**	550
+30 mins.	54	159	61	274	**27**	135	12	174	26	**141**	18	**185**	71	374	24	469
+45 mins.	**61**	168	73	302	23	**147**	**23**	**193**	13	133	**27**	173	**129**	417	33	**579**
Total Volume	220	692	285	1197	96	556	70	722	91	504	89	684	405	1630	118	2153
% App. Total	18.4	57.8	23.8		13.3	77	9.7		13.3	73.7	13		18.8	75.7	5.5	
PHF	.902	.797	.913	.865	.889	.946	.761	.935	.711	.894	.824	.924	.785	.937	.868	.930

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Groups Printed- Passenger Vehicles

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	42	113	79	234	29	99	10	138	25	126	21	172	83	383	20	486	1030
04:15 PM	55	135	70	260	15	120	18	153	25	118	14	157	92	341	12	445	1015
04:30 PM	48	156	79	283	20	123	20	163	20	111	21	152	87	423	26	536	1134
04:45 PM	49	144	73	266	23	123	15	161	29	113	23	165	100	392	33	525	1117
Total	194	548	301	1043	87	465	63	615	99	468	79	646	362	1539	91	1992	4296
05:00 PM	56	213	69	338	27	129	12	168	24	140	17	181	67	367	23	457	1144
05:15 PM	53	156	51	260	23	144	23	190	13	132	27	172	121	404	33	558	1180
05:30 PM	60	164	69	293	13	124	11	148	17	102	20	139	78	428	31	537	1117
05:45 PM	43	118	74	235	17	129	15	161	23	116	16	155	96	383	26	505	1056
Total	212	651	263	1126	80	526	61	667	77	490	80	647	362	1582	113	2057	4497
Grand Total	406	1199	564	2169	167	991	124	1282	176	958	159	1293	724	3121	204	4049	8793
Apprch %	18.7	55.3	26		13	77.3	9.7		13.6	74.1	12.3		17.9	77.1	5		
Total %	4.6	13.6	6.4	24.7	1.9	11.3	1.4	14.6	2	10.9	1.8	14.7	8.2	35.5	2.3	46	

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	48	156	**79**	283	20	123	20	163	20	111	21	152	87	**423**	26	536	1134
04:45 PM	49	144	73	266	23	123	15	161	**29**	113	23	165	100	392	**33**	525	1117
05:00 PM	**56**	**213**	69	**338**	**27**	129	12	168	24	**140**	17	**181**	67	367	23	457	1144
05:15 PM	53	156	51	260	23	**144**	**23**	**190**	13	132	**27**	172	**121**	404	33	**558**	**1180**
Total Volume	206	669	272	1147	93	519	70	682	86	496	88	670	375	1586	115	2076	4575
% App. Total	18	58.3	23.7		13.6	76.1	10.3		12.8	74	13.1		18.1	76.4	5.5		
PHF	.920	.785	.861	.848	.861	.901	.761	.897	.741	.886	.815	.925	.775	.937	.871	.930	.969

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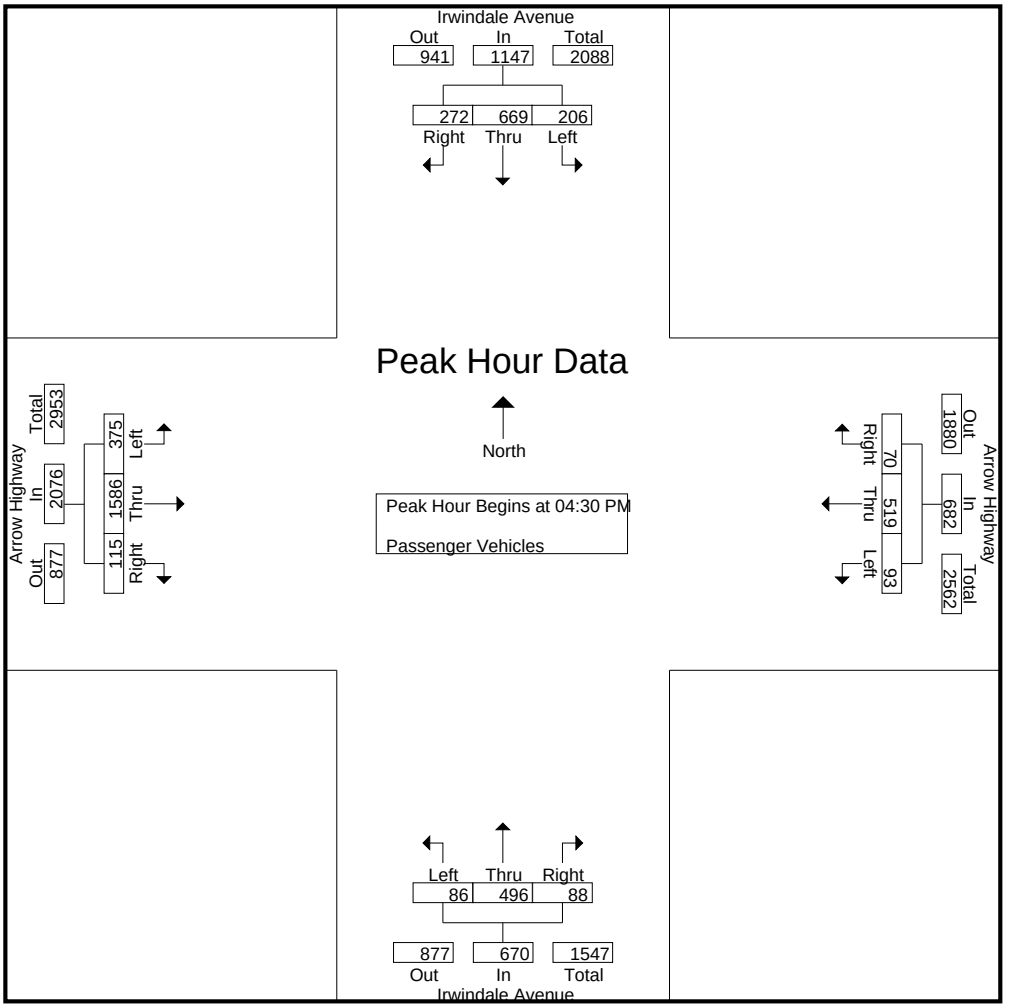

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	48	156	**79**	283	20	123	20	163	20	111	21	152	87	**423**	26	536
+15 mins.	49	144	73	266	23	123	15	161	**29**	113	23	165	100	392	**33**	525
+30 mins.	**56**	**213**	69	**338**	**27**	129	12	168	24	**140**	17	**181**	67	367	23	457
+45 mins.	53	156	51	260	23	**144**	**23**	**190**	13	132	**27**	172	**121**	404	33	**558**
Total Volume	206	669	272	1147	93	519	70	682	86	496	88	670	375	1586	115	2076
% App. Total	18	58.3	23.7		13.6	76.1	10.3		12.8	74	13.1		18.1	76.4	5.5	
PHF	.920	.785	.861	.848	.861	.901	.761	.897	.741	.886	.815	.925	.775	.937	.871	.930

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Groups Printed- Large 2 Axle Vehicles

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	2	6	9	0	13	1	14	1	4	0	5	4	16	2	22	50
04:15 PM	1	5	3	9	1	4	0	5	1	6	0	7	4	12	0	16	37
04:30 PM	0	3	6	9	0	6	0	6	0	3	0	3	5	11	1	17	35
04:45 PM	0	3	4	7	2	5	0	7	2	1	0	3	10	10	1	21	38
Total	2	13	19	34	3	28	1	32	4	14	0	18	23	49	4	76	160
05:00 PM	0	2	3	5	0	4	0	4	1	1	1	3	3	6	1	10	22
05:15 PM	0	1	2	3	0	3	0	3	0	1	0	1	4	11	0	15	22
05:30 PM	1	4	1	6	0	1	0	1	0	1	0	1	4	6	2	12	20
05:45 PM	0	0	2	2	0	4	1	5	0	2	0	2	5	11	0	16	25
Total	1	7	8	16	0	12	1	13	1	5	1	7	16	34	3	53	89
Grand Total	3	20	27	50	3	40	2	45	5	19	1	25	39	83	7	129	249
Apprch %	6	40	54		6.7	88.9	4.4		20	76	4		30.2	64.3	5.4		
Total %	1.2	8	10.8	20.1	1.2	16.1	0.8	18.1	2	7.6	0.4	10	15.7	33.3	2.8	51.8	

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	**3**	**6**	**9**	0	**6**	0	6	0	**3**	0	**3**	5	**11**	**1**	17	35
04:45 PM	0	3	4	7	**2**	5	0	**7**	**2**	1	0	3	**10**	10	1	**21**	**38**
05:00 PM	0	2	3	5	0	4	0	4	1	1	**1**	3	3	6	1	10	22
05:15 PM	0	1	2	3	0	3	0	3	0	1	0	1	4	11	0	15	22
Total Volume	0	9	15	24	2	18	0	20	3	6	1	10	22	38	3	63	117
% App. Total	0	37.5	62.5		10	90	0		30	60	10		34.9	60.3	4.8		
PHF	.000	.750	.625	.667	.250	.750	.000	.714	.375	.500	.250	.833	.550	.864	.750	.750	.770

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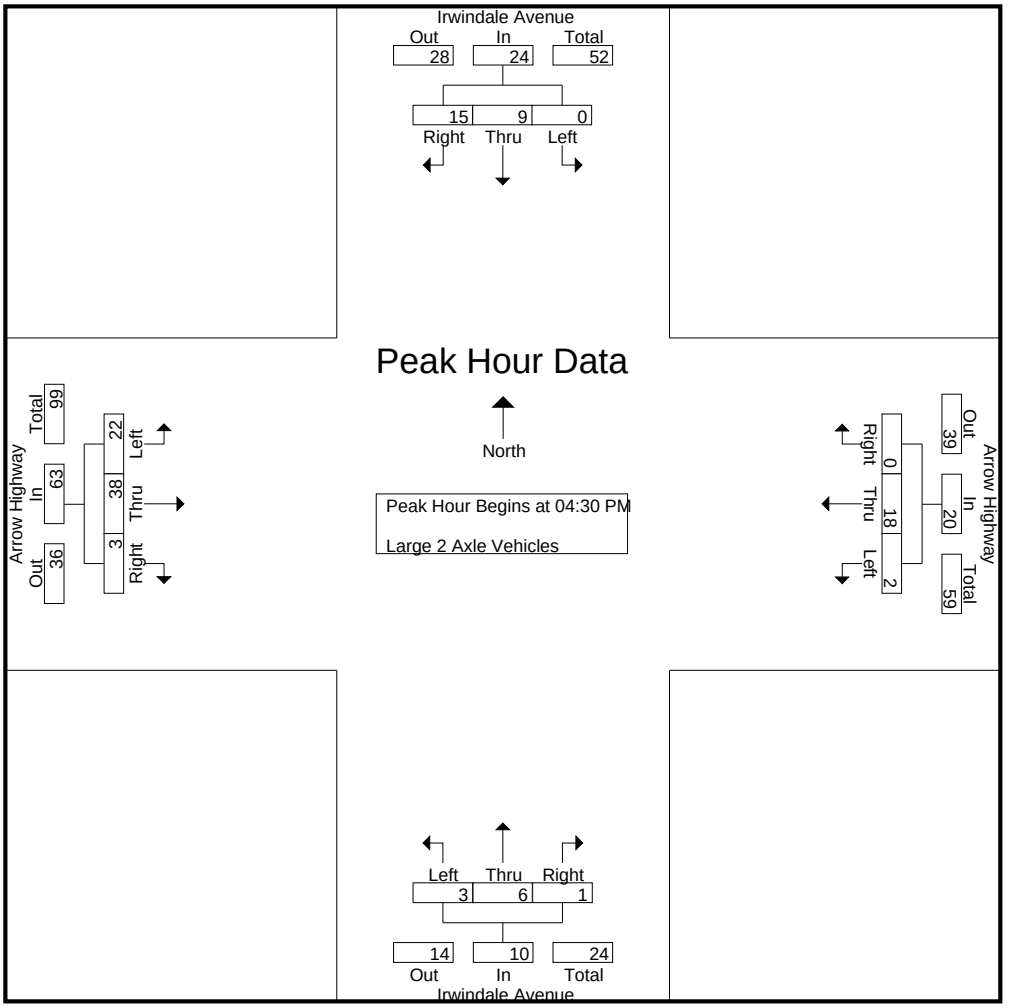

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	**3**	**6**	**9**	0	**6**	0	6	0	**3**	0	**3**	5	**11**	**1**	17
+15 mins.	0	3	4	7	**2**	5	0	**7**	**2**	1	0	3	**10**	10	1	**21**
+30 mins.	0	2	3	5	0	4	0	4	1	1	**1**	3	3	6	1	10
+45 mins.	0	1	2	3	0	3	0	3	0	1	0	1	4	11	0	15
Total Volume	0	9	15	24	2	18	0	20	3	6	1	10	22	38	3	63
% App. Total	0	37.5	62.5		10	90	0		30	60	10		34.9	60.3	4.8	
PHF	.000	.750	.625	.667	.250	.750	.000	.714	.375	.500	.250	.833	.550	.864	.750	.750

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City of Irwindale
N/S: Irwindale Avenue
E/W: Arrow Highway
Weather: Clear

File Name : 13_IRW_Irwindale Ave_Arrow PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- 3 Axle Vehicles

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	1	2	3	0	3	0	3	0	0	0	0	0	4	0	4	10
04:15 PM	0	0	1	1	0	3	0	3	0	0	0	0	1	1	0	2	6
04:30 PM	0	1	0	1	0	9	0	9	0	1	0	1	0	1	0	1	12
04:45 PM	0	1	1	2	0	4	0	4	0	0	0	0	0	1	0	1	7
Total	0	3	4	7	0	19	0	19	0	1	0	1	1	7	0	8	35
05:00 PM	0	1	1	2	0	2	0	2	1	0	0	1	1	0	0	1	6
05:15 PM	1	0	1	2	0	0	0	0	0	0	0	0	1	1	0	2	4
05:30 PM	0	0	2	2	0	0	0	0	0	0	0	0	0	2	0	2	4
05:45 PM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1
Total	1	1	4	6	0	2	0	2	1	1	0	2	2	3	0	5	15
Grand Total	1	4	8	13	0	21	0	21	1	2	0	3	3	10	0	13	50
Apprch %	7.7	30.8	61.5		0	100	0		33.3	66.7	0		23.1	76.9	0		
Total %	2	8	16	26	0	42	0	42	2	4	0	6	6	20	0	26	

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	**1**	0	1	0	**9**	0	**9**	0	**1**	0	**1**	0	**1**	0	1	**12**
04:45 PM	0	1	**1**	**2**	0	4	0	4	0	0	0	0	0	1	0	1	7
05:00 PM	0	1	1	2	0	2	0	2	**1**	0	0	1	**1**	0	0	1	6
05:15 PM	**1**	0	1	2	0	0	0	0	0	0	0	0	1	1	0	**2**	4
Total Volume	1	3	3	7	0	15	0	15	1	1	0	2	2	3	0	5	29
% App. Total	14.3	42.9	42.9		0	100	0		50	50	0		40	60	0		
PHF	.250	.750	.750	.875	.000	.417	.000	.417	.250	.250	.000	.500	.500	.750	.000	.625	.604

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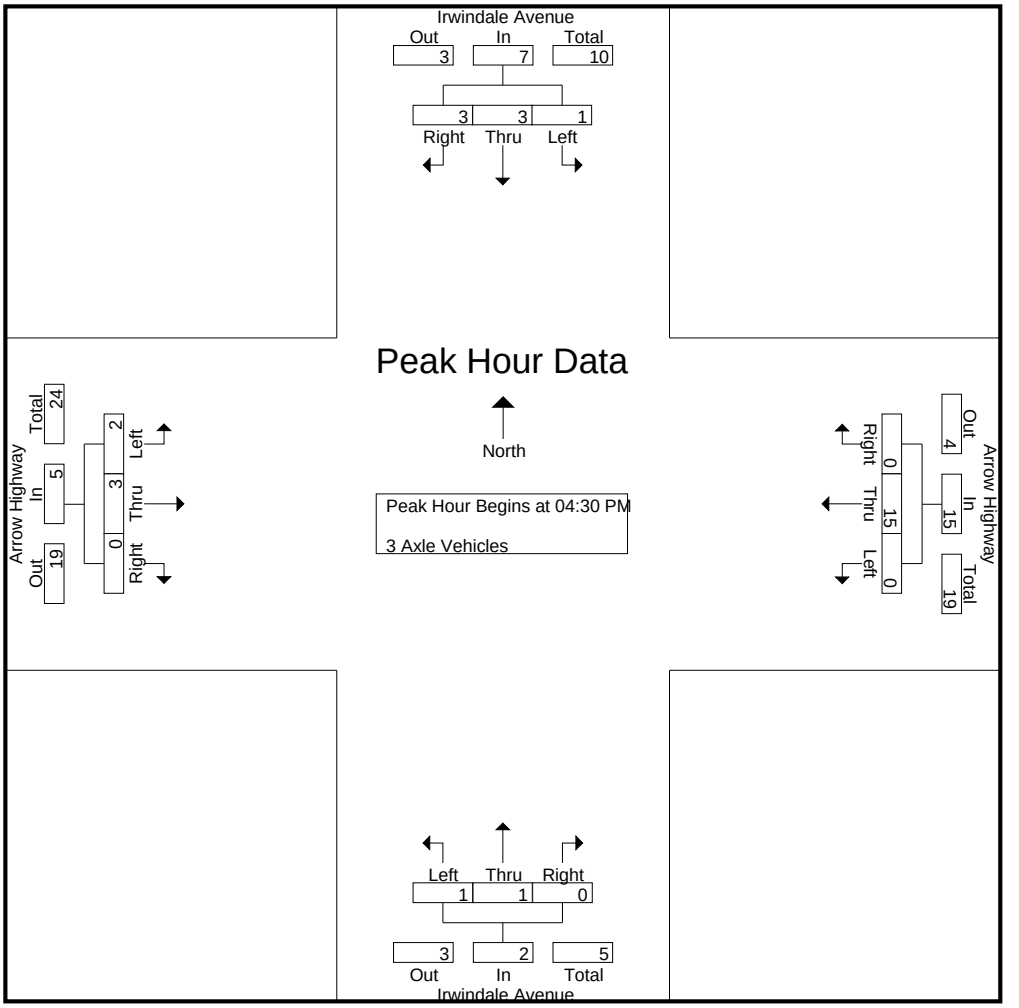
City of Irwindale
N/S: Irwindale Avenue
E/W: Arrow Highway
Weather: Clear

File Name : 13_IRW_Irwindale Ave_Arrow PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	**1**	0	1	0	**9**	0	**9**	0	**1**	0	**1**	0	**1**	0	1
+15 mins.	0	1	**1**	**2**	0	4	0	4	0	0	0	0	0	1	0	1
+30 mins.	0	1	1	2	0	2	0	2	**1**	0	0	1	**1**	0	0	1
+45 mins.	**1**	0	1	2	0	0	0	0	0	0	0	0	1	1	0	**2**
Total Volume	1	3	3	7	0	15	0	15	1	1	0	2	2	3	0	5
% App. Total	14.3	42.9	42.9		0	100	0		50	50	0		40	60	0	
PHF	.250	.750	.750	.875	.000	.417	.000	.417	.250	.250	.000	.500	.500	.750	.000	.625

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City of Irwindale
N/S: Irwindale Avenue
E/W: Arrow Highway
Weather: Clear

File Name : 13_IRW_Irwindale Ave_Arrow PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 1

Groups Printed- 4+ Axle Trucks

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	3	3	0	3	1	4	0	0	0	0	4	2	0	6	13
04:15 PM	0	1	1	2	0	0	0	0	0	0	0	0	1	5	0	6	8
04:30 PM	0	0	0	0	0	2	0	2	0	1	0	1	1	0	0	1	4
04:45 PM	0	0	0	0	1	2	0	3	1	0	0	1	2	1	0	3	7
Total	0	1	4	5	1	7	1	9	1	1	0	2	8	8	0	16	32
05:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	2
05:15 PM	0	2	7	9	0	0	0	0	0	0	0	0	3	1	0	4	13
05:30 PM	0	0	1	1	0	0	0	0	0	1	0	1	3	0	0	3	5
05:45 PM	0	0	1	1	0	2	0	2	0	0	0	0	2	4	0	6	9
Total	0	3	9	12	0	2	0	2	0	1	0	1	8	6	0	14	29
Grand Total	0	4	13	17	1	9	1	11	1	2	0	3	16	14	0	30	61
Apprch %	0	23.5	76.5		9.1	81.8	9.1		33.3	66.7	0		53.3	46.7	0		
Total %	0	6.6	21.3	27.9	1.6	14.8	1.6	18	1.6	3.3	0	4.9	26.2	23	0	49.2	

	Irwindale Avenue Southbound				Arrow Highway Westbound				Irwindale Avenue Northbound				Arrow Highway Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	0	0	0	0	**2**	0	2	0	**1**	0	**1**	1	0	0	1	4
04:45 PM	0	0	0	0	**1**	2	0	**3**	**1**	0	0	1	2	**1**	0	3	7
05:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	2
05:15 PM	0	**2**	**7**	**9**	0	0	0	0	0	0	0	0	**3**	1	0	**4**	**13**
Total Volume	0	3	7	10	1	4	0	5	1	1	0	2	6	3	0	9	26
% App. Total	0	30	70		20	80	0		50	50	0		66.7	33.3	0		
PHF	.000	.375	.250	.278	.250	.500	.000	.417	.250	.250	.000	.500	.500	.750	.000	.563	.500

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City of Irwindale
N/S: Irwindale Avenue
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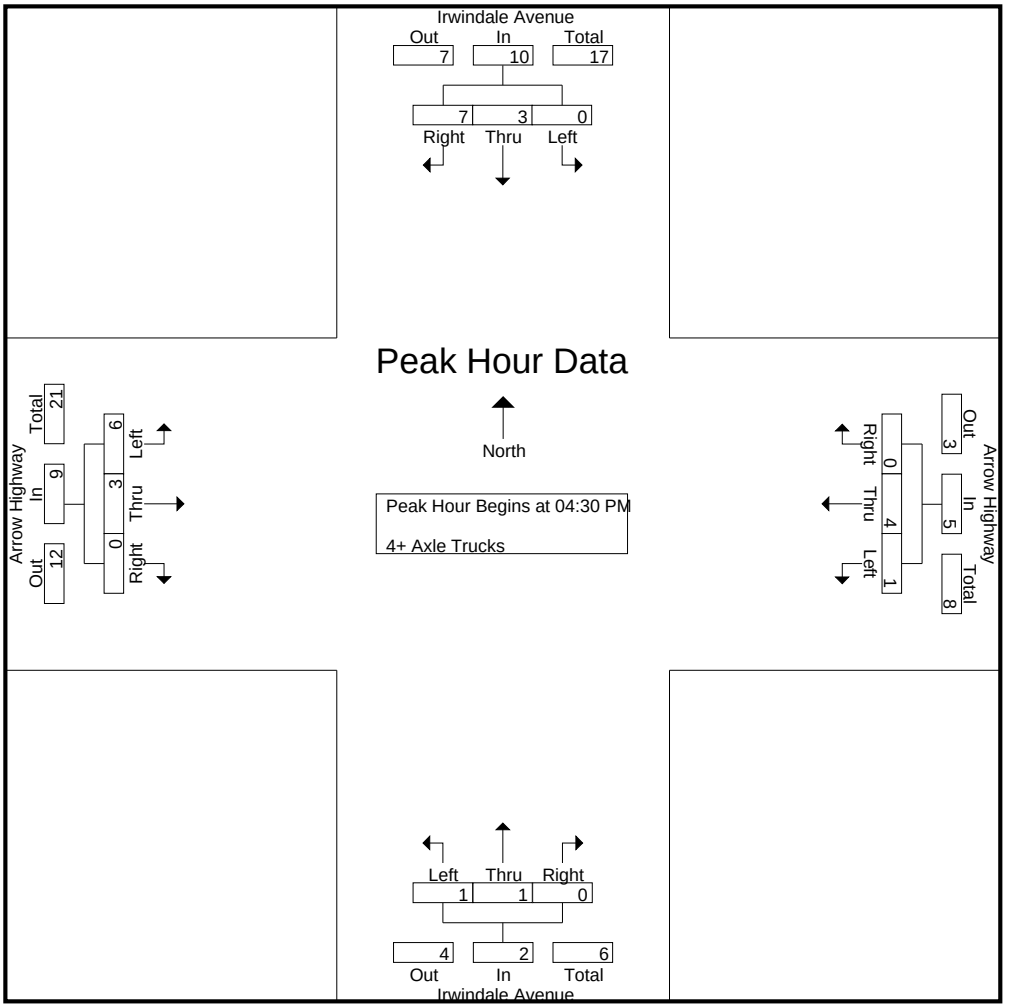
File Name : 13_IRW_Irwindale Ave_Arrow PM
Site Code : 22518834
Start Date : 11/1/2018
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	0	0	0	0	**2**	0	2	0	**1**	0	**1**	1	0	0	1
+15 mins.	0	0	0	0	**1**	2	0	**3**	**1**	0	0	1	2	**1**	0	3
+30 mins.	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1
+45 mins.	0	**2**	**7**	**9**	0	0	0	0	0	0	0	0	**3**	1	0	**4**
Total Volume	0	3	7	10	1	4	0	5	1	1	0	2	6	3	0	9
% App. Total	0	30	70		20	80	0		50	50	0		66.7	33.3	0	
PHF	.000	.375	.250	.278	.250	.500	.000	.417	.250	.250	.000	.500	.500	.750	.000	.563

Counts Unlimited, Inc.

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City of Irwindale
Arrow Highway
B/ Maine Avenue - Azusa Canyon Road
24 Hour Directional Classification Count

IRW015
Site Code: 225-18834

Eastbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/07/18	1	58	16	2	5	1	0	1	1	0	0	0	0	85
01:00	0	33	10	0	1	0	0	0	0	0	0	0	0	44
02:00	3	29	8	2	2	2	0	0	1	0	2	0	0	49
03:00	2	88	17	3	4	0	0	0	2	0	1	**2**	0	119
04:00	2	199	83	6	13	5	0	1	2	0	1	0	0	312
05:00	11	558	175	11	94	16	1	17	8	4	6	1	0	902
06:00	21	1317	**345**	10	**99**	15	**2**	**28**	15	**5**	2	1	**1**	1861
07:00	**27**	**1490**	315	21	86	**19**	1	13	9	5	1	0	0	**1987**
08:00	19	1000	233	15	76	16	0	8	14	0	3	0	0	1384
09:00	9	589	153	15	70	12	0	15	13	0	6	0	0	882
10:00	13	435	169	21	53	15	2	6	**28**	1	2	0	0	745
11:00	7	411	166	**22**	65	16	0	8	16	1	**9**	0	0	721
12 PM	4	472	147	15	56	17	0	9	14	0	7	0	0	741
13:00	2	534	183	**19**	84	17	4	8	**17**	0	**15**	1	0	884
14:00	**15**	755	**254**	16	101	**19**	**5**	17	14	0	14	**2**	0	1212
15:00	8	894	239	18	101	13	3	**19**	10	0	8	0	0	1313
16:00	1	1008	242	11	**103**	19	0	10	10	**1**	8	1	0	1414
17:00	8	1135	251	11	70	19	0	7	5	0	2	0	0	1508
18:00	4	**1200**	221	10	62	17	0	7	6	0	4	0	0	**1531**
19:00	3	594	118	3	28	8	0	8	5	0	2	0	0	769
20:00	3	322	61	5	13	1	0	1	5	0	2	0	0	413
21:00	1	245	47	2	7	2	0	2	0	0	2	0	0	308
22:00	0	179	32	4	5	3	0	0	2	0	2	0	0	227
23:00	1	101	14	0	1	2	0	1	2	0	0	0	0	122
Total	165	13646	3499	242	1199	254	18	186	199	17	99	8	1	19533
Percent	0.8%	69.9%	17.9%	1.2%	6.1%	1.3%	0.1%	1.0%	1.0%	0.1%	0.5%	0.0%	0.0%	
AM Peak	07:00	07:00	06:00	11:00	06:00	07:00	06:00	06:00	10:00	06:00	11:00	03:00	06:00	07:00
Vol.	27	1490	345	22	99	19	2	28	28	5	9	2	1	1987
PM Peak	14:00	18:00	14:00	13:00	16:00	14:00	14:00	15:00	13:00	16:00	13:00	14:00		18:00
Vol.	15	1200	254	19	103	19	5	19	17	1	15	2		1531
Grand Total	165	13646	3499	242	1199	254	18	186	199	17	99	8	1	19533
Percent	0.8%	69.9%	17.9%	1.2%	6.1%	1.3%	0.1%	1.0%	1.0%	0.1%	0.5%	0.0%	0.0%	

Counts Unlimited, Inc.

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City of Irwindale
Arrow Highway
B/ Maine Avenue - Azusa Canyon Road
24 Hour Directional Classification Count

IRW015
Site Code: 225-18834

Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/07/18	0	63	43	2	4	0	0	0	3	0	1	0	0	116
01:00	0	54	37	3	5	0	0	0	1	0	1	0	0	101
02:00	0	43	23	2	6	0	0	0	4	0	0	0	0	78
03:00	1	78	55	0	7	1	0	0	5	0	1	**1**	0	149
04:00	0	142	106	2	37	0	0	1	4	0	1	0	0	293
05:00	2	421	263	8	113	7	0	9	8	0	**6**	0	**1**	838
06:00	8	716	354	21	132	6	1	14	9	0	2	0	1	1264
07:00	4	**872**	**386**	31	**144**	8	6	8	9	0	2	0	0	**1470**
08:00	7	635	384	27	124	7	1	9	**21**	0	3	0	0	1218
09:00	**18**	387	286	27	123	**14**	4	11	12	0	5	0	0	887
10:00	9	344	313	**34**	122	13	**7**	6	18	0	6	0	0	872
11:00	16	397	294	32	107	10	5	**17**	10	0	5	0	1	894
12 PM	6	449	326	34	135	13	4	17	9	0	3	1	0	997
13:00	11	462	386	**43**	143	15	4	17	**22**	1	17	**4**	0	1125
14:00	10	609	542	31	**201**	10	**10**	31	10	2	**20**	2	**1**	1479
15:00	10	722	601	24	182	10	4	55	11	1	12	0	0	1632
16:00	11	753	**652**	17	188	**16**	3	55	4	3	5	2	1	1710
17:00	**18**	**917**	623	10	140	12	5	73	6	**7**	1	0	0	**1812**
18:00	8	879	641	4	96	9	6	**82**	4	5	5	0	0	1739
19:00	6	441	412	9	68	4	0	16	3	1	2	0	1	963
20:00	1	240	207	3	37	1	0	3	3	0	1	0	0	496
21:00	3	218	141	3	15	2	0	4	1	0	0	0	0	387
22:00	0	179	119	2	12	1	0	1	1	0	1	0	0	316
23:00	1	105	94	3	5	1	0	1	1	0	0	0	0	211
Total	150	10126	7288	372	2146	160	60	430	179	20	100	10	6	21047
Percent	0.7%	48.1%	34.6%	1.8%	10.2%	0.8%	0.3%	2.0%	0.9%	0.1%	0.5%	0.0%	0.0%	
AM Peak	09:00	07:00	07:00	10:00	07:00	09:00	10:00	11:00	08:00		05:00	03:00	05:00	07:00
Vol.	18	872	386	34	144	14	7	17	21		6	1	1	1470
PM Peak	17:00	17:00	16:00	13:00	14:00	16:00	14:00	18:00	13:00	17:00	14:00	13:00	14:00	17:00
Vol.	18	917	652	43	201	16	10	82	22	7	20	4	1	1812
Grand Total	150	10126	7288	372	2146	160	60	430	179	20	100	10	6	21047
Percent	0.7%	48.1%	34.6%	1.8%	10.2%	0.8%	0.3%	2.0%	0.9%	0.1%	0.5%	0.0%	0.0%	

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City of Irwindale
Arrow Highway
B/ Maine Avenue - Azusa Canyon Road
24 Hour Directional Classification Count

IRW015
Site Code: 225-18834

Eastbound, Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/07/18	1	121	59	4	9	1	0	1	4	0	1	0	0	201
01:00	0	87	47	3	6	0	0	0	1	0	1	0	0	145
02:00	3	72	31	4	8	2	0	0	5	0	2	0	0	127
03:00	3	166	72	3	11	1	0	0	7	0	2	**3**	0	268
04:00	2	341	189	8	50	5	0	2	6	0	2	0	0	605
05:00	13	979	438	19	207	23	1	26	16	4	12	1	1	1740
06:00	29	2033	699	31	**231**	21	3	**42**	24	**5**	4	1	**2**	3125
07:00	**31**	**2362**	**701**	52	230	27	7	21	18	5	3	0	0	**3457**
08:00	26	1635	617	42	200	23	1	17	35	0	6	0	0	2602
09:00	27	976	439	42	193	26	4	26	25	0	11	0	0	1769
10:00	22	779	482	**55**	175	**28**	**9**	12	**46**	1	8	0	0	1617
11:00	23	808	460	54	172	26	5	25	26	1	**14**	0	1	1615
12 PM	10	921	473	49	191	30	4	26	23	0	10	1	0	1738
13:00	13	996	569	**62**	227	32	8	25	**39**	1	32	**5**	0	2009
14:00	25	1364	796	47	**302**	29	**15**	48	24	2	**34**	4	**1**	2691
15:00	18	1616	840	42	283	23	7	74	21	1	20	0	0	2945
16:00	12	1761	**894**	28	291	**35**	3	65	14	4	13	3	1	3124
17:00	**26**	2052	874	21	210	31	5	80	11	**7**	3	0	0	**3320**
18:00	12	**2079**	862	14	158	26	6	**89**	10	5	9	0	0	3270
19:00	9	1035	530	12	96	12	0	24	8	1	4	0	1	1732
20:00	4	562	268	8	50	2	0	4	8	0	3	0	0	909
21:00	4	463	188	5	22	4	0	6	1	0	2	0	0	695
22:00	0	358	151	6	17	4	0	1	3	0	3	0	0	543
23:00	2	206	108	3	6	3	0	2	3	0	0	0	0	333
Total	315	23772	10787	614	3345	414	78	616	378	37	199	18	7	40580
Percent	0.8%	58.6%	26.6%	1.5%	8.2%	1.0%	0.2%	1.5%	0.9%	0.1%	0.5%	0.0%	0.0%	
AM Peak	07:00	07:00	07:00	10:00	06:00	10:00	10:00	06:00	10:00	06:00	11:00	03:00	06:00	07:00
Vol.	31	2362	701	55	231	28	9	42	46	5	14	3	2	3457
PM Peak	17:00	18:00	16:00	13:00	14:00	16:00	14:00	18:00	13:00	17:00	14:00	13:00	14:00	17:00
Vol.	26	2079	894	62	302	35	15	89	39	7	34	5	1	3320
Grand Total	315	23772	10787	614	3345	414	78	616	378	37	199	18	7	40580
Percent	0.8%	58.6%	26.6%	1.5%	8.2%	1.0%	0.2%	1.5%	0.9%	0.1%	0.5%	0.0%	0.0%	

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
Phone: 951-268-6268
email: counts@countsunlimited.com

City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
24 Hour Entering Volume Count

IRW012EW
Site Code: 225-18834

Start Time	01-Nov-18 Thu	Eastbound Morning	Eastbound Afternoon	Hour Totals Morning	Hour Totals Afternoon	Hour Totals Morning	Hour Totals Afternoon	Combined Totals Morning	Combined Totals Afternoon	Morning	Afternoon
12:00		0	13			0	0				
12:15		3	16			0	0				
12:30		1	12			0	0				
12:45		3	8	7	49	0	0	0	0	7	49
01:00		1	8			0	0				
01:15		1	14			0	0				
01:30		1	17			0	0				
01:45		0	17	3	56	0	0	0	0	3	56
02:00		2	16			0	0				
02:15		1	26			0	0				
02:30		0	24			0	0				
02:45		5	41	8	107	0	0	0	0	8	107
03:00		1	35			0	0				
03:15		3	25			0	0				
03:30		1	28			0	0				
03:45		4	25	9	113	0	0	0	0	9	113
04:00		2	37			0	0				
04:15		4	36			0	0				
04:30		6	43			0	0				
04:45		3	26	15	142	0	0	0	0	15	142
05:00		2	**39**			0	0				
05:15		8	**33**			0	0				
05:30		10	**37**			0	0				
05:45		19	**38**	39	147	0	0	0	0	39	147
06:00		8	36			0	0				
06:15		11	21			0	0				
06:30		13	9			0	0				
06:45		14	9	46	75	0	0	0	0	46	75
07:00		15	21			0	0				
07:15		16	12			0	0				
07:30		**20**	8			0	0				
07:45		**16**	10	67	51	0	0	0	0	67	51
08:00		**19**	11			0	0				
08:15		**18**	5			0	0				
08:30		12	13			0	0				
08:45		12	3	61	32	0	0	0	0	61	32
09:00		6	3			0	0				
09:15		15	5			0	0				
09:30		11	11			0	0				
09:45		13	2	45	21	0	0	0	0	45	21
10:00		8	1			0	0				
10:15		12	3			0	0				
10:30		11	2			0	0				
10:45		8	4	39	10	0	0	0	0	39	10
11:00		9	3			0	0				
11:15		19	2			0	0				
11:30		14	1			0	0				
11:45		8	3	50	9	0	0	0	0	50	9
Total		389	812	389	812	0	0	0	0	389	812
Combined Total		1201		1201		0		0		1201	
AM Peak	-	07:30	-	-	-	-	-	-	-	-	-
Vol.	-	73	-	-	-	-	-	-	-	-	-
P.H.F.		0.913									
PM Peak	-	-	05:00	-	-	-	-	-	-	-	-
Vol.	-	-	147	-	-	-	-	-	-	-	-
P.H.F.			0.855								
Percentage		32.4%	67.6%			0.0%	0.0%				
ADT/AADT		ADT 1,201		AADT 1,201							

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City of Irwindale
N/S: Azusa Canyon Road
E/W: Nubia Street
24 Hour Entering Volume Count

IRW012NS
Site Code: 225-18834

Start Time	01-Nov-18 Thu	Northbound Morning	Northbound Afternoon	Hour Totals Morning	Hour Totals Afternoon	Southbound Morning	Southbound Afternoon	Hour Totals Morning	Hour Totals Afternoon	Combined Totals Morning	Combined Totals Afternoon
12:00		3	78			0	48				
12:15		2	56			4	49				
12:30		6	49			4	50				
12:45		8	64	19	247	6	44	14	191	33	438
01:00		11	57			10	50				
01:15		5	58			4	47				
01:30		3	67			5	62				
01:45		0	65	19	247	4	69	23	228	42	475
02:00		7	74			3	74				
02:15		2	70			3	81				
02:30		7	74			6	86				
02:45		7	77	23	295	5	106	17	347	40	642
03:00		2	70			2	108				
03:15		6	85			4	103				
03:30		8	88			8	116				
03:45		10	83	26	326	12	120	26	447	52	773
04:00		11	98			9	114				
04:15		13	79			10	110				
04:30		23	69			22	112				
04:45		25	**87**	72	333	15	123	56	459	128	792
05:00		27	**78**			8	101				
05:15		40	**83**			11	**108**				
05:30		48	**107**			17	**113**				
05:45		89	79	204	347	19	**127**	55	449	259	796
06:00		90	78			18	**116**				
06:15		125	57			19	101				
06:30		**195**	57			24	85				
06:45		**301**	62	711	254	28	70	89	372	800	626
07:00		**274**	43			31	65				
07:15		**201**	40			**36**	55				
07:30		189	39			**47**	48				
07:45		169	37	833	159	**42**	32	156	200	989	359
08:00		150	38			**49**	36				
08:15		121	35			36	28				
08:30		97	30			32	30				
08:45		99	31	467	134	41	20	158	114	625	248
09:00		64	29			38	25				
09:15		77	22			41	14				
09:30		47	12			28	19				
09:45		43	15	231	78	29	23	136	81	367	159
10:00		69	16			36	12				
10:15		56	16			44	19				
10:30		45	13			37	16				
10:45		54	15	224	60	38	14	155	61	379	121
11:00		61	12			30	20				
11:15		43	9			33	14				
11:30		52	11			43	11				
11:45		58	5	214	37	38	7	144	52	358	89
Total		3043	2517	3043	2517	1029	3001	1029	3001	4072	5518
Combined Total		5560		5560		4030		4030		9590	
AM Peak	-	06:30	-	-	-	07:15	-	-	-	-	-
Vol.	-	971	-	-	-	174	-	-	-	-	-
P.H.F.		0.806				0.888					
PM Peak	-	-	04:45	-	-	-	05:15	-	-	-	-
Vol.	-	-	355	-	-	-	464	-	-	-	-
P.H.F.			0.829				0.913				
Percentage		54.7%	45.3%			25.5%	74.5%				
ADT/AADT		ADT 9,590		AADT 9,590							

Counts Unlimited
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City of Irwindale
N/S: I-605 Southbound Off Ramp
E/W: Arrow Highway
Weather: Clear

File Name : 02_IRW_605S Off Ramp_Arrow Hwy AM
Site Code : 22519365
Start Date : 5/23/2019
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	67	108	175	252	0	252	0	90	90	517
07:15 AM	81	127	208	292	0	292	0	111	111	611
07:30 AM	88	133	221	226	0	226	0	148	148	595
07:45 AM	115	129	244	221	0	221	0	146	146	611
Total	351	497	848	991	0	991	0	495	495	2334
08:00 AM	91	107	198	199	0	199	0	139	139	536
08:15 AM	82	97	179	177	0	177	0	141	141	497
08:30 AM	73	106	179	156	0	156	0	104	104	439
08:45 AM	71	80	151	162	0	162	0	121	121	434
Total	317	390	707	694	0	694	0	505	505	1906
Grand Total	668	887	1555	1685	0	1685	0	1000	1000	4240
Apprch %	43	57		100	0		0	100		
Total %	15.8	20.9	36.7	39.7	0	39.7	0	23.6	23.6	
Passenger Vehicles	615	770	1385	1543	0	1543	0	782	782	3710
% Passenger Vehicles	92.1	86.8	89.1	91.6	0	91.6	0	78.2	78.2	87.5
Large 2 Axle Vehicles	17	21	38	42	0	42	0	61	61	141
% Large 2 Axle Vehicles	2.5	2.4	2.4	2.5	0	2.5	0	6.1	6.1	3.3
3 Axle Vehicles	14	29	43	58	0	58	0	59	59	160
% 3 Axle Vehicles	2.1	3.3	2.8	3.4	0	3.4	0	5.9	5.9	3.8
4+ Axle Trucks	22	67	89	42	0	42	0	98	98	229
% 4+ Axle Trucks	3.3	7.6	5.7	2.5	0	2.5	0	9.8	9.8	5.4

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	81	127	208	**292**	0	**292**	0	111	111	**611**
07:30 AM	88	**133**	221	226	0	226	0	**148**	**148**	595
07:45 AM	**115**	129	**244**	221	0	221	0	146	146	611
08:00 AM	91	107	198	199	0	199	0	139	139	536
Total Volume	375	496	871	938	0	938	0	544	544	2353
% App. Total	43.1	56.9		100	0		0	100		
PHF	.815	.932	.892	.803	.000	.803	.000	.919	.919	.963

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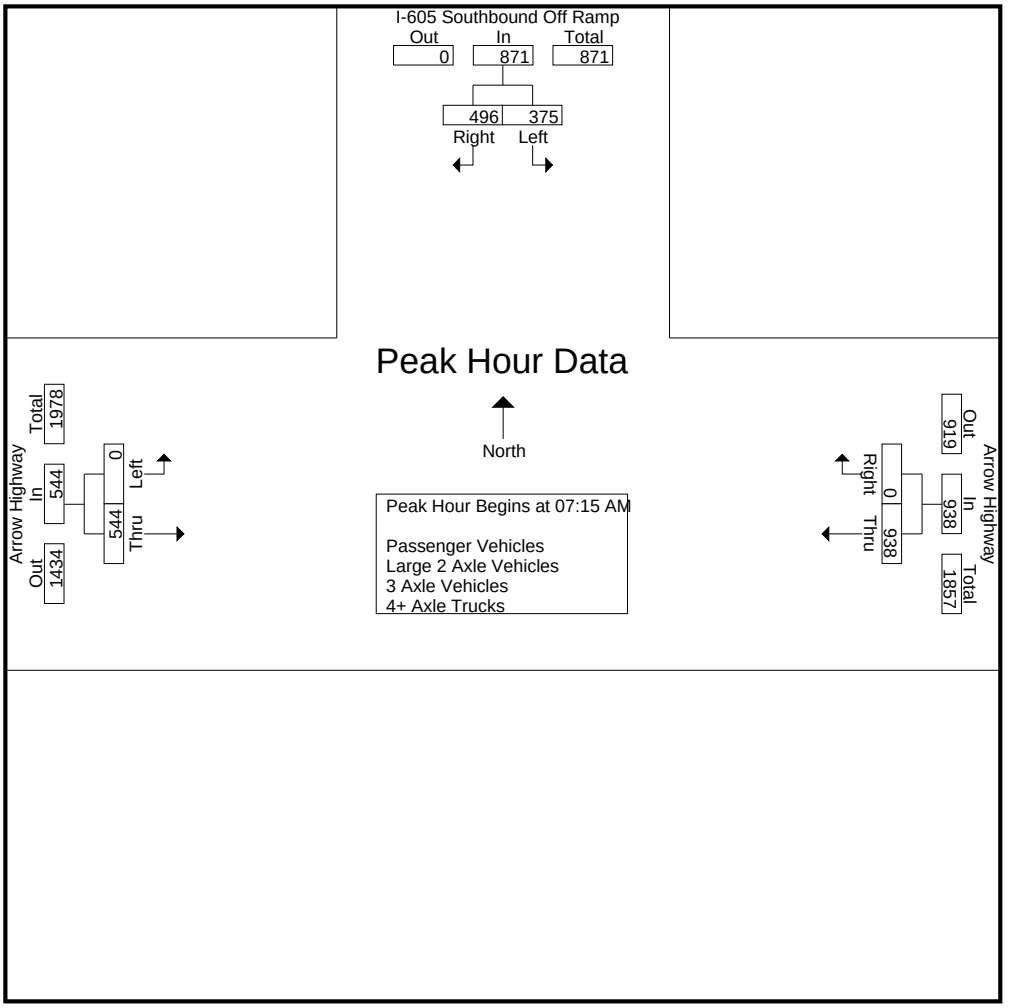
City of Irwindale
N/S: I-605 Southbound Off Ramp
E/W: Arrow Highway
Weather: Clear

File Name : 02_IRW_605S Off Ramp_Arrow Hwy AM
Site Code : 22519365
Start Date : 5/23/2019



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM			07:00 AM			07:30 AM		
+0 mins.	81	127	208	252	0	252	0	**148**	**148**
+15 mins.	88	**133**	221	**292**	0	**292**	0	146	146
+30 mins.	**115**	129	**244**	226	0	226	0	139	139
+45 mins.	91	107	198	221	0	221	0	141	141
Total Volume	375	496	871	991	0	991	0	574	574
% App. Total	43.1	56.9		100	0		0	100	
PHF	.815	.932	.892	.848	.000	.848	.000	.970	.970

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File Name : 02_IRW_605S Off Ramp_Arrow Hwy AM
Site Code : 22519365
Start Date : 5/23/2019
Page No : 1

Groups Printed- Passenger Vehicles

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	60	91	151	238	0	238	0	64	64	453
07:15 AM	78	114	192	272	0	272	0	79	79	543
07:30 AM	84	115	199	208	0	208	0	121	121	528
07:45 AM	105	114	219	200	0	200	0	118	118	537
Total	327	434	761	918	0	918	0	382	382	2061
08:00 AM	84	92	176	184	0	184	0	117	117	477
08:15 AM	77	85	162	165	0	165	0	117	117	444
08:30 AM	61	92	153	133	0	133	0	77	77	363
08:45 AM	66	67	133	143	0	143	0	89	89	365
Total	288	336	624	625	0	625	0	400	400	1649
Grand Total	615	770	1385	1543	0	1543	0	782	782	3710
Apprch %	44.4	55.6		100	0		0	100		
Total %	16.6	20.8	37.3	41.6	0	41.6	0	21.1	21.1	

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	78	114	192	**272**	0	**272**	0	79	79	**543**
07:30 AM	84	**115**	199	208	0	208	0	**121**	**121**	528
07:45 AM	**105**	114	**219**	200	0	200	0	118	118	537
08:00 AM	84	92	176	184	0	184	0	117	117	477
Total Volume	351	435	786	864	0	864	0	435	435	2085
% App. Total	44.7	55.3		100	0		0	100		
PHF	.836	.946	.897	.794	.000	.794	.000	.899	.899	.960

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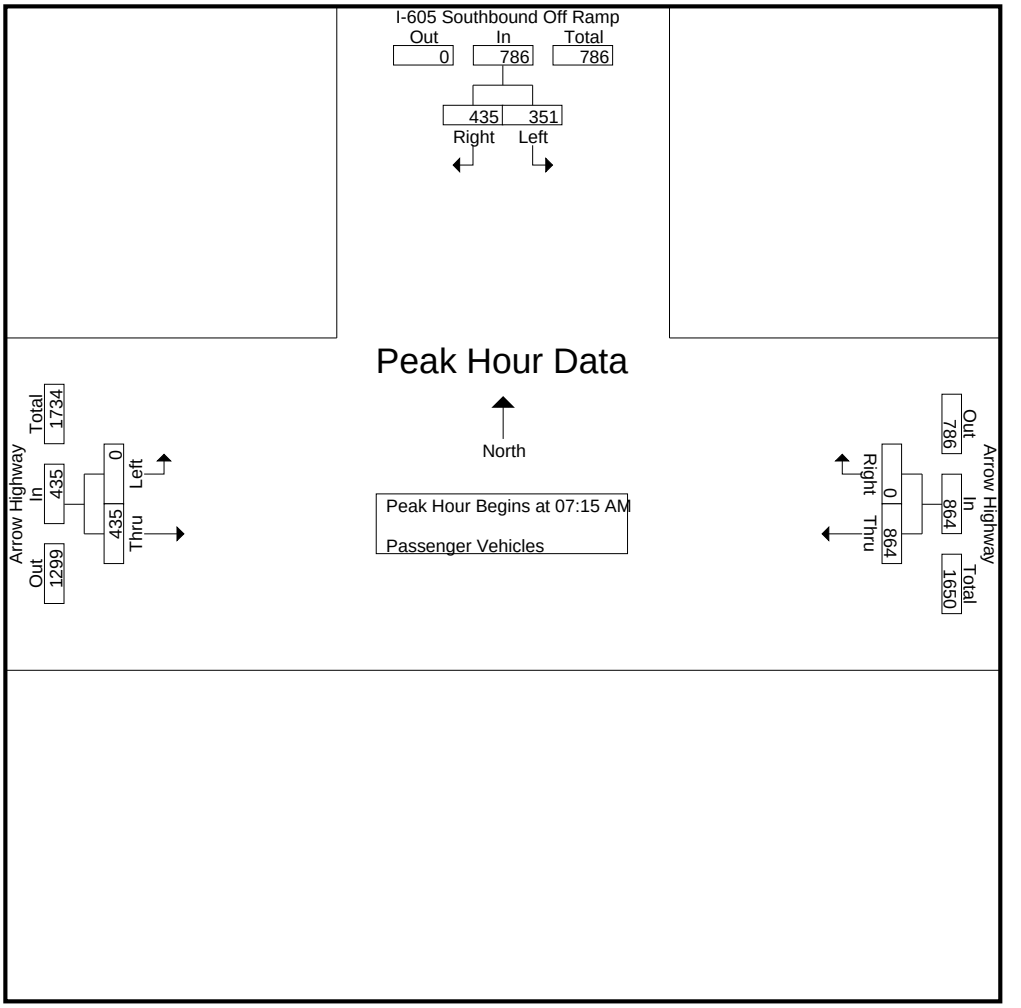
Weather: Clear

File Name : 02_IRW_605S Off Ramp_Arrow Hwy AM
Site Code : 22519365
Start Date : 5/23/2019



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM			07:15 AM			07:15 AM		
+0 mins.	78	114	192	**272**	0	**272**	0	79	79
+15 mins.	84	**115**	199	208	0	208	0	**121**	**121**
+30 mins.	**105**	114	**219**	200	0	200	0	118	118
+45 mins.	84	92	176	184	0	184	0	117	117
Total Volume	351	435	786	864	0	864	0	435	435
% App. Total	44.7	55.3		100	0		0	100	
PHF	.836	.946	.897	.794	.000	.794	.000	.899	.899

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City of Irwindale
N/S: I-605 Southbound Off Ramp
E/W: Arrow Highway
Weather: Clear

File Name : 02_IRW_605S Off Ramp_Arrow Hwy AM
Site Code : 22519365
Start Date : 5/23/2019
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	1	4	5	9	0	9	0	8	8	22
07:15 AM	0	4	4	10	0	10	0	9	9	23
07:30 AM	1	4	5	3	0	3	0	9	9	17
07:45 AM	3	2	5	5	0	5	0	12	12	22
Total	5	14	19	27	0	27	0	38	38	84
08:00 AM	2	3	5	3	0	3	0	7	7	15
08:15 AM	3	1	4	4	0	4	0	4	4	12
08:30 AM	4	2	6	6	0	6	0	3	3	15
08:45 AM	3	1	4	2	0	2	0	9	9	15
Total	12	7	19	15	0	15	0	23	23	57
Grand Total	17	21	38	42	0	42	0	61	61	141
Apprch %	44.7	55.3		100	0		0	100		
Total %	12.1	14.9	27	29.8	0	29.8	0	43.3	43.3	

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	0	**4**	4	**10**	0	**10**	0	9	9	**23**
07:30 AM	1	4	**5**	3	0	3	0	9	9	17
07:45 AM	**3**	2	5	5	0	5	0	**12**	**12**	22
08:00 AM	2	3	5	3	0	3	0	7	7	15
Total Volume	6	13	19	21	0	21	0	37	37	77
% App. Total	31.6	68.4		100	0		0	100		
PHF	.500	.813	.950	.525	.000	.525	.000	.771	.771	.837

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File Name : 02_IRW_605S Off Ramp_Arrow Hwy AM
Site Code : 22519365
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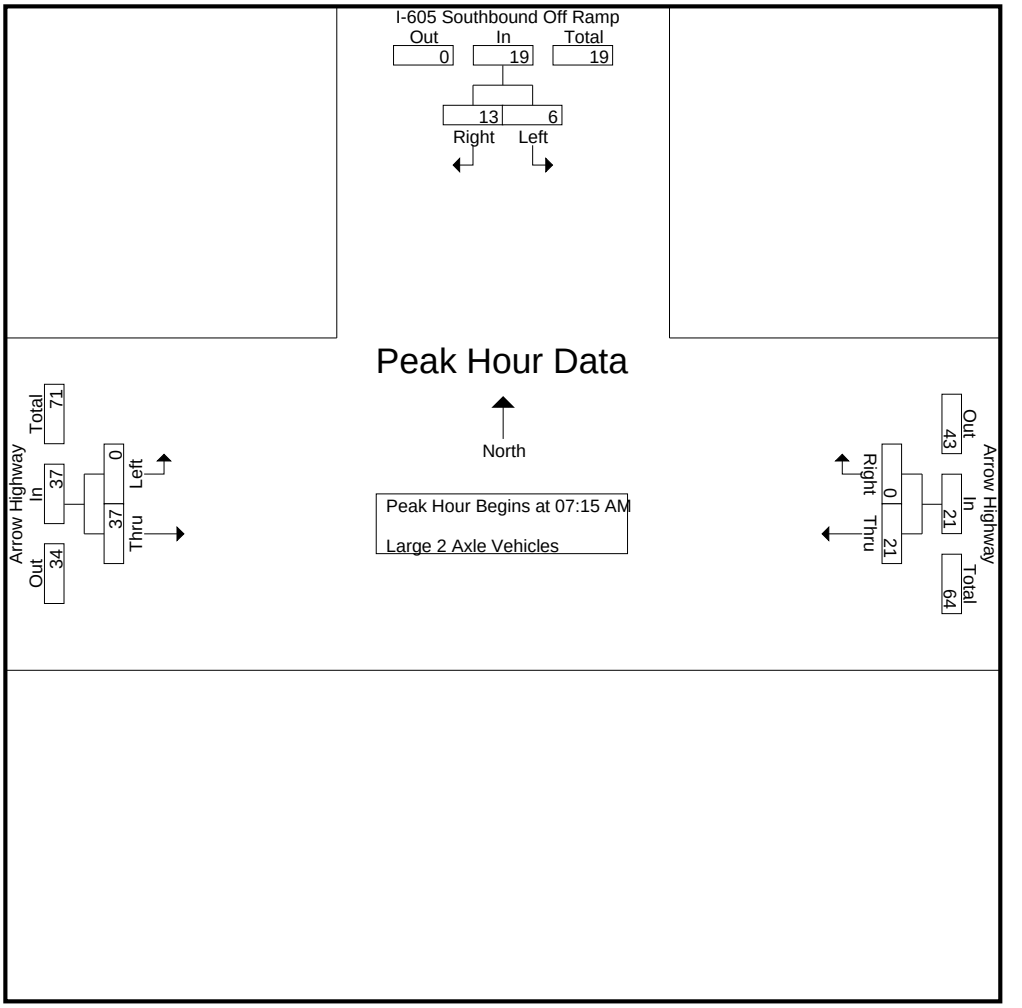
Page No : 2



Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM			07:15 AM			07:15 AM		
+0 mins.	0	**4**	4	**10**	0	**10**	0	9	9
+15 mins.	1	4	**5**	3	0	3	0	9	9
+30 mins.	**3**	2	5	5	0	5	0	**12**	**12**
+45 mins.	2	3	5	3	0	3	0	7	7
Total Volume	6	13	19	21	0	21	0	37	37
% App. Total	31.6	68.4		100	0		0	100	
PHF	.500	.813	.950	.525	.000	.525	.000	.771	.771

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City of Irwindale
N/S: I-605 Southbound Off Ramp
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Weather: Clear

File Name : 02_IRW_605S Off Ramp_Arrow Hwy AM
Site Code : 22519365
Start Date : 5/23/2019
Page No : 1

Groups Printed- 3 Axle Vehicles

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	3	6	9	4	0	4	0	8	8	21
07:15 AM	0	3	3	9	0	9	0	9	9	21
07:30 AM	1	2	3	9	0	9	0	7	7	19
07:45 AM	1	3	4	11	0	11	0	4	4	19
Total	5	14	19	33	0	33	0	28	28	80
08:00 AM	4	2	6	7	0	7	0	8	8	21
08:15 AM	1	1	2	4	0	4	0	7	7	13
08:30 AM	3	4	7	7	0	7	0	6	6	20
08:45 AM	1	8	9	7	0	7	0	10	10	26
Total	9	15	24	25	0	25	0	31	31	80
Grand Total	14	29	43	58	0	58	0	59	59	160
Apprch %	32.6	67.4		100	0		0	100		
Total %	8.8	18.1	26.9	36.2	0	36.2	0	36.9	36.9	

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	0	**3**	3	9	0	9	0	**9**	**9**	**21**
07:30 AM	1	2	3	9	0	9	0	7	7	19
07:45 AM	1	3	4	**11**	0	**11**	0	4	4	19
08:00 AM	**4**	2	**6**	7	0	7	0	8	8	21
Total Volume	6	10	16	36	0	36	0	28	28	80
% App. Total	37.5	62.5		100	0		0	100		
PHF	.375	.833	.667	.818	.000	.818	.000	.778	.778	.952

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City of Irwindale
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File Name : 02_IRW_605S Off Ramp_Arrow Hwy AM
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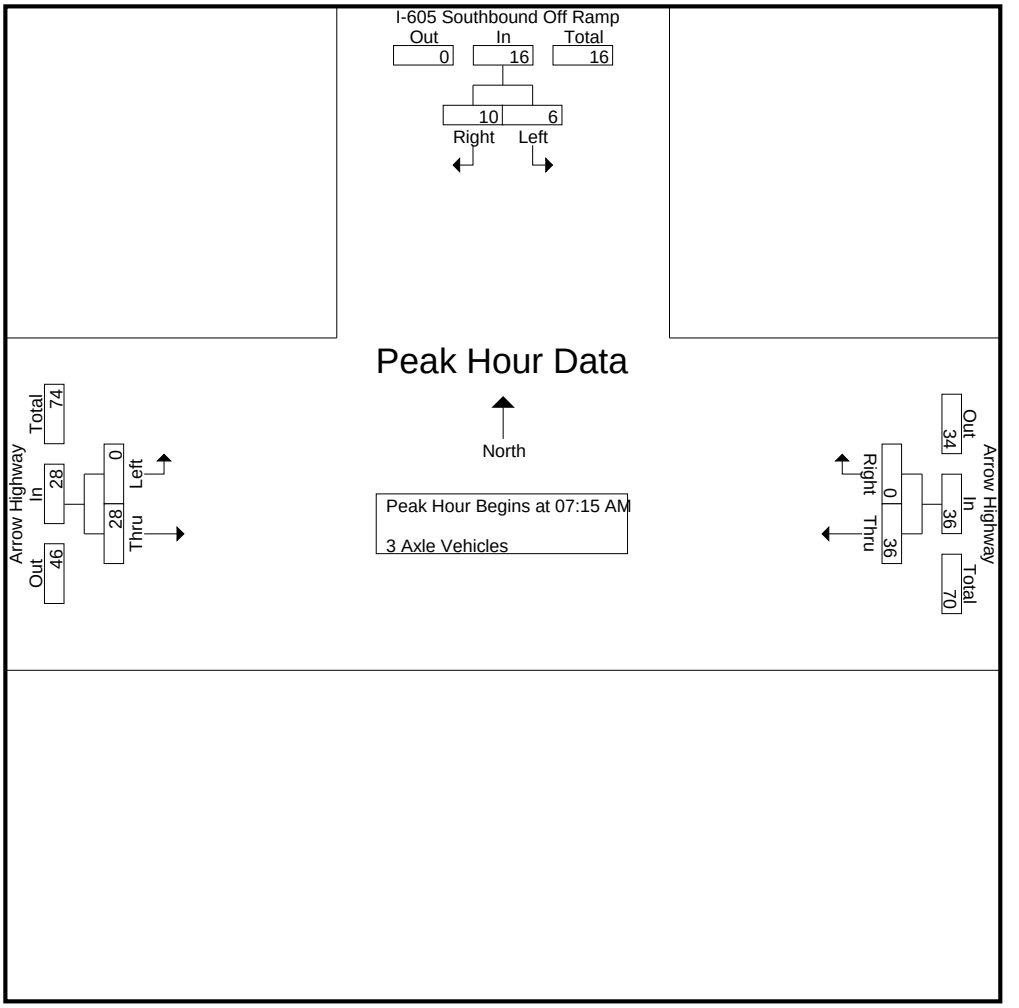

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM			07:15 AM			07:15 AM		
+0 mins.	0	**3**	3	9	0	9	0	**9**	**9**
+15 mins.	1	2	3	9	0	9	0	7	7
+30 mins.	1	3	4	**11**	0	**11**	0	4	4
+45 mins.	**4**	2	**6**	7	0	7	0	8	8
Total Volume	6	10	16	36	0	36	0	28	28
% App. Total	37.5	62.5		100	0		0	100	
PHF	.375	.833	.667	.818	.000	.818	.000	.778	.778

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City of Irwindale
N/S: I-605 Southbound Off Ramp
E/W: Arrow Highway
Weather: Clear

File Name : 02_IRW_605S Off Ramp_Arrow Hwy AM
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Groups Printed- 4+ Axle Trucks

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	3	7	10	1	0	1	0	10	10	21
07:15 AM	3	6	9	1	0	1	0	14	14	24
07:30 AM	2	12	14	6	0	6	0	11	11	31
07:45 AM	6	10	16	5	0	5	0	12	12	33
Total	14	35	49	13	0	13	0	47	47	109
08:00 AM	1	10	11	5	0	5	0	7	7	23
08:15 AM	1	10	11	4	0	4	0	13	13	28
08:30 AM	5	8	13	10	0	10	0	18	18	41
08:45 AM	1	4	5	10	0	10	0	13	13	28
Total	8	32	40	29	0	29	0	51	51	120
Grand Total	22	67	89	42	0	42	0	98	98	229
Apprch %	24.7	75.3		100	0		0	100		
Total %	9.6	29.3	38.9	18.3	0	18.3	0	42.8	42.8	

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:15 AM										
07:15 AM	3	6	9	1	0	1	0	**14**	**14**	24
07:30 AM	2	**12**	14	**6**	0	**6**	0	11	11	31
07:45 AM	**6**	10	**16**	5	0	5	0	12	12	**33**
08:00 AM	1	10	11	5	0	5	0	7	7	23
Total Volume	12	38	50	17	0	17	0	44	44	111
% App. Total	24	76		100	0		0	100		
PHF	.500	.792	.781	.708	.000	.708	.000	.786	.786	.841

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File Name : 02_IRW_605S Off Ramp_Arrow Hwy AM
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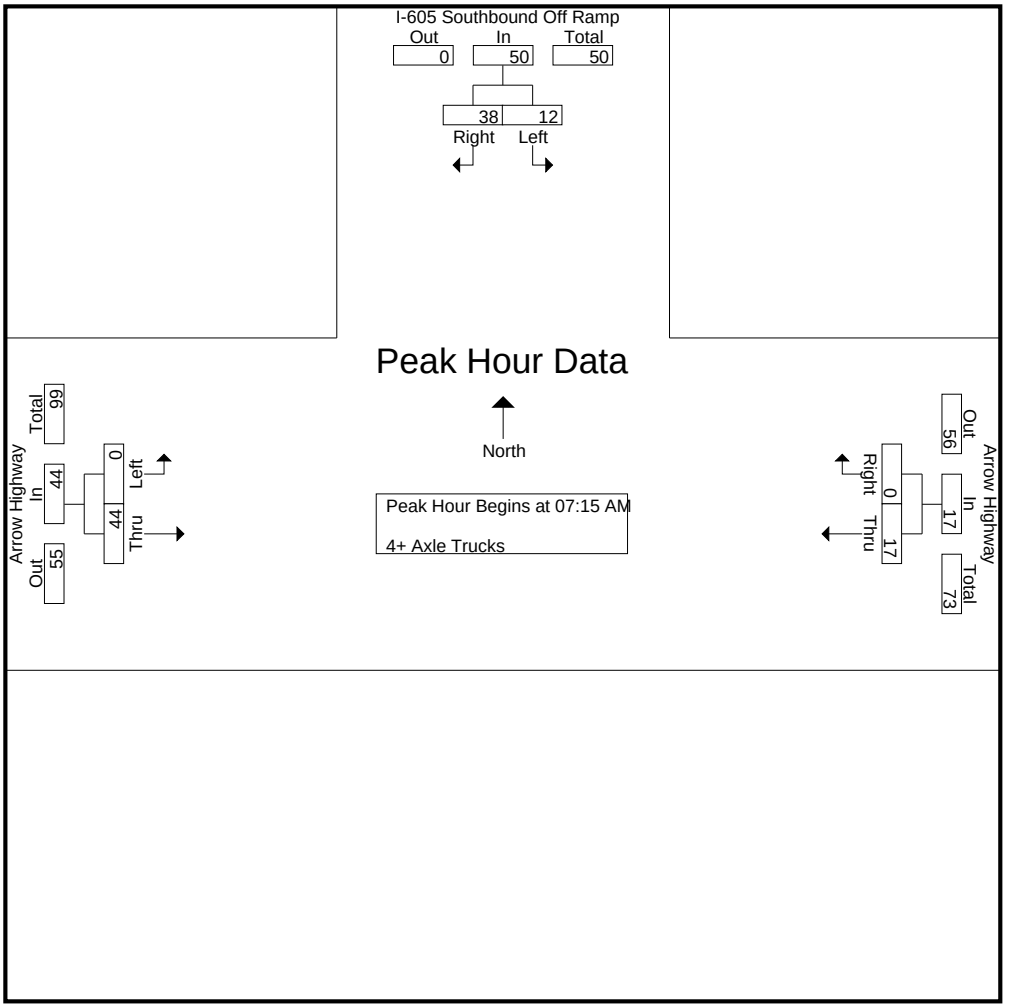

Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM			07:15 AM			07:15 AM		
+0 mins.	3	6	9	1	0	1	0	**14**	**14**
+15 mins.	2	**12**	14	**6**	0	**6**	0	11	11
+30 mins.	**6**	10	**16**	5	0	5	0	12	12
+45 mins.	1	10	11	5	0	5	0	7	7
Total Volume	12	38	50	17	0	17	0	44	44
% App. Total	24	76		100	0		0	100	
PHF	.500	.792	.781	.708	.000	.708	.000	.786	.786

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City of Irwindale
N/S: I-605 Southbound Off Ramp
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Weather: Clear

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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	55	64	119	86	0	86	0	276	276	481
04:15 PM	44	54	98	95	0	95	0	258	258	451
04:30 PM	53	47	100	88	0	88	0	303	303	491
04:45 PM	54	52	106	95	0	95	0	277	277	478
Total	206	217	423	364	0	364	0	1114	1114	1901
05:00 PM	53	57	110	114	0	114	0	282	282	506
05:15 PM	68	63	131	104	0	104	0	262	262	497
05:30 PM	54	80	134	97	0	97	0	220	220	451
05:45 PM	51	67	118	73	0	73	0	267	267	458
Total	226	267	493	388	0	388	0	1031	1031	1912
Grand Total	432	484	916	752	0	752	0	2145	2145	3813
Apprch %	47.2	52.8		100	0		0	100		
Total %	11.3	12.7	24	19.7	0	19.7	0	56.3	56.3	
Passenger Vehicles	398	434	832	732	0	732	0	2068	2068	3632
% Passenger Vehicles	92.1	89.7	90.8	97.3	0	97.3	0	96.4	96.4	95.3
Large 2 Axle Vehicles	10	24	34	16	0	16	0	57	57	107
% Large 2 Axle Vehicles	2.3	5	3.7	2.1	0	2.1	0	2.7	2.7	2.8
3 Axle Vehicles	7	6	13	3	0	3	0	10	10	26
% 3 Axle Vehicles	1.6	1.2	1.4	0.4	0	0.4	0	0.5	0.5	0.7
4+ Axle Trucks	17	20	37	1	0	1	0	10	10	48
% 4+ Axle Trucks	3.9	4.1	4	0.1	0	0.1	0	0.5	0.5	1.3

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	53	47	100	88	0	88	0	**303**	**303**	491
04:45 PM	54	52	106	95	0	95	0	277	277	478
05:00 PM	53	57	110	**114**	0	**114**	0	282	282	**506**
05:15 PM	**68**	**63**	**131**	104	0	104	0	262	262	497
Total Volume	228	219	447	401	0	401	0	1124	1124	1972
% App. Total	51	49		100	0		0	100		
PHF	.838	.869	.853	.879	.000	.879	.000	.927	.927	.974

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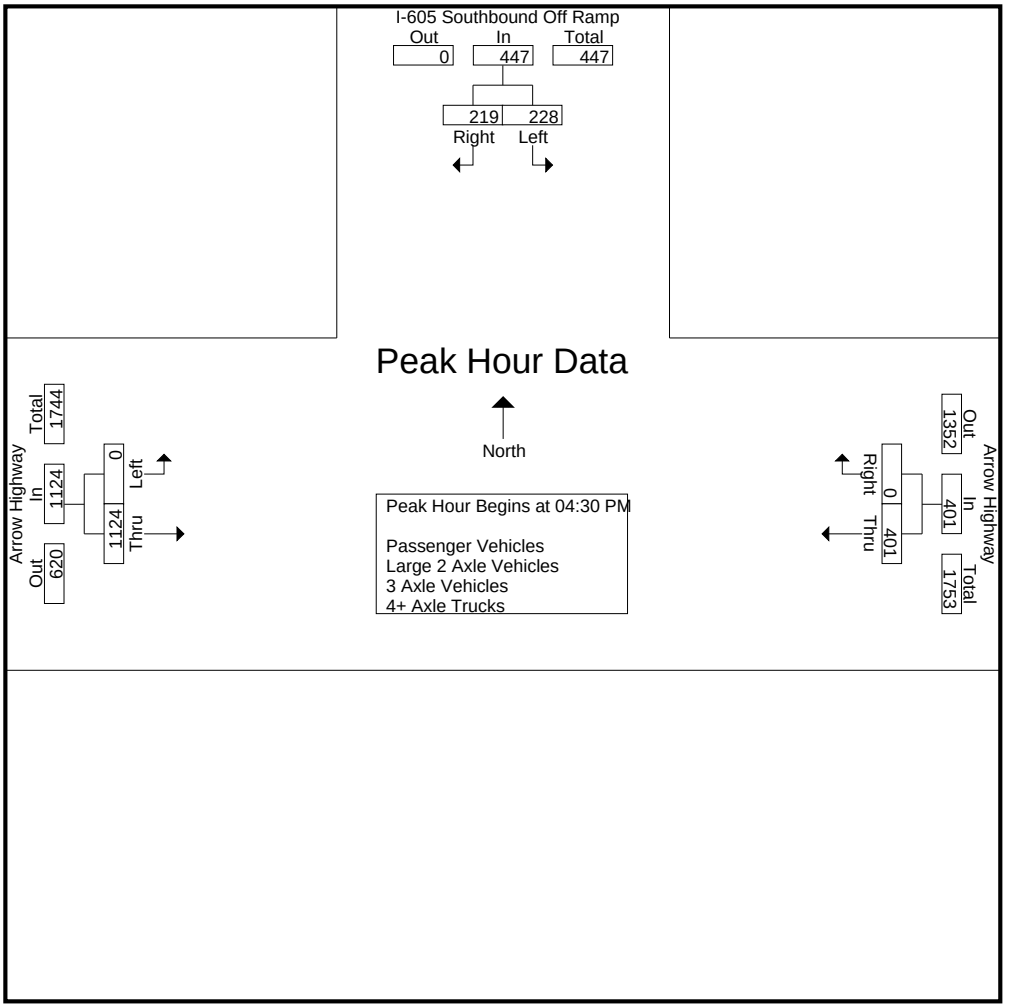

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM			04:45 PM			04:30 PM		
+0 mins.	53	57	110	95	0	95	0	**303**	**303**
+15 mins.	**68**	63	131	**114**	0	**114**	0	277	277
+30 mins.	54	**80**	**134**	104	0	104	0	282	282
+45 mins.	51	67	118	97	0	97	0	262	262
Total Volume	226	267	493	410	0	410	0	1124	1124
% App. Total	45.8	54.2		100	0		0	100	
PHF	.831	.834	.920	.899	.000	.899	.000	.927	.927

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City of Irwindale
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Weather: Clear

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Groups Printed- Passenger Vehicles

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	52	53	105	80	0	80	0	259	259	444
04:15 PM	39	43	82	94	0	94	0	247	247	423
04:30 PM	48	44	92	84	0	84	0	292	292	468
04:45 PM	48	47	95	93	0	93	0	265	265	453
Total	187	187	374	351	0	351	0	1063	1063	1788
05:00 PM	44	52	96	113	0	113	0	271	271	480
05:15 PM	66	59	125	102	0	102	0	255	255	482
05:30 PM	52	74	126	95	0	95	0	216	216	437
05:45 PM	49	62	111	71	0	71	0	263	263	445
Total	211	247	458	381	0	381	0	1005	1005	1844
Grand Total	398	434	832	732	0	732	0	2068	2068	3632
Apprch %	47.8	52.2		100	0		0	100		
Total %	11	11.9	22.9	20.2	0	20.2	0	56.9	56.9	

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	48	44	92	84	0	84	0	**292**	**292**	468
04:45 PM	48	47	95	93	0	93	0	265	265	453
05:00 PM	44	52	96	**113**	0	**113**	0	271	271	480
05:15 PM	**66**	**59**	**125**	102	0	102	0	255	255	**482**
Total Volume	206	202	408	392	0	392	0	1083	1083	1883
% App. Total	50.5	49.5		100	0		0	100		
PHF	.780	.856	.816	.867	.000	.867	.000	.927	.927	.977

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City of Irwindale
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Weather: Clear

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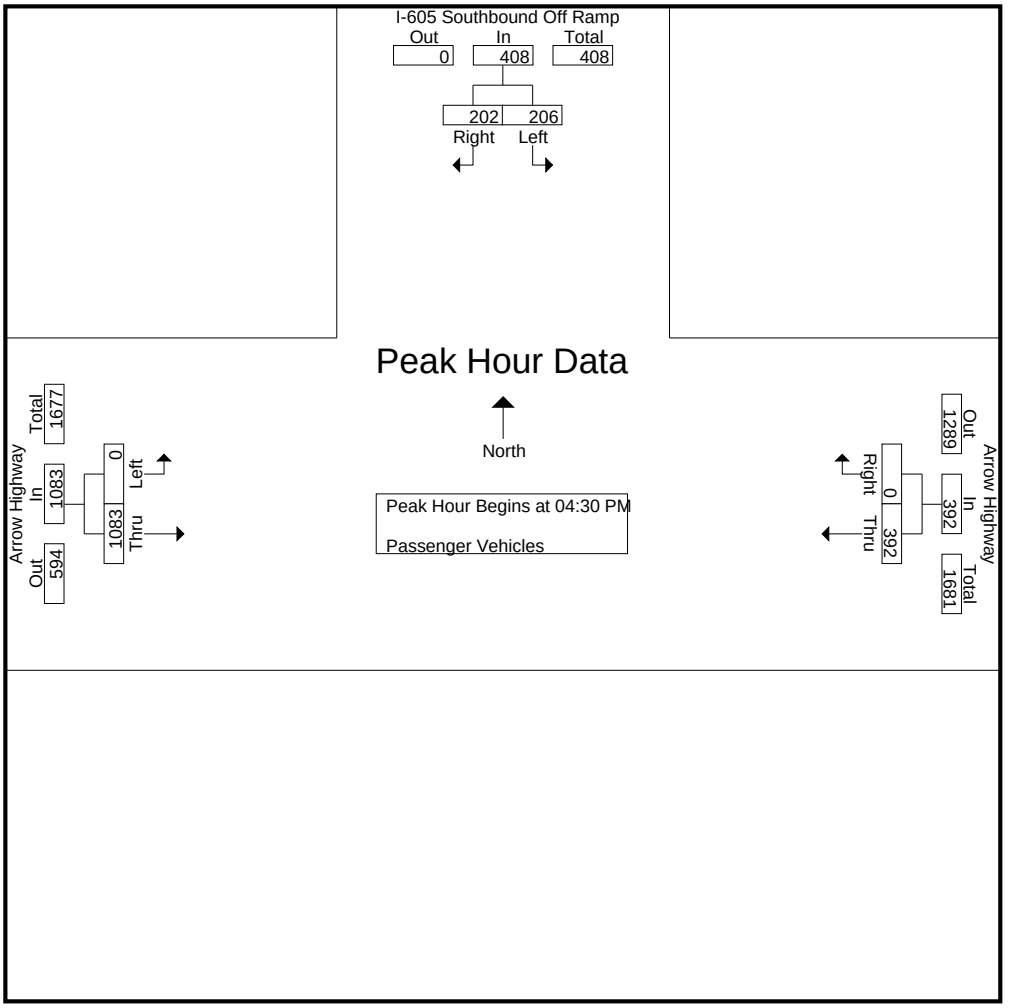

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	48	44	92	84	0	84	0	**292**	**292**
+15 mins.	48	47	95	93	0	93	0	265	265
+30 mins.	44	52	96	**113**	0	**113**	0	271	271
+45 mins.	**66**	**59**	**125**	102	0	102	0	255	255
Total Volume	206	202	408	392	0	392	0	1083	1083
% App. Total	50.5	49.5		100	0		0	100	
PHF	.780	.856	.816	.867	.000	.867	.000	.927	.927

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City of Irwindale
N/S: I-605 Southbound Off Ramp
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Weather: Clear

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Groups Printed- Large 2 Axle Vehicles

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	1	7	8	6	0	6	0	13	13	27
04:15 PM	2	4	6	0	0	0	0	9	9	15
04:30 PM	2	1	3	4	0	4	0	8	8	15
04:45 PM	1	2	3	2	0	2	0	9	9	14
Total	6	14	20	12	0	12	0	39	39	71
05:00 PM	1	1	2	0	0	0	0	9	9	11
05:15 PM	1	2	3	0	0	0	0	5	5	8
05:30 PM	1	5	6	2	0	2	0	3	3	11
05:45 PM	1	2	3	2	0	2	0	1	1	6
Total	4	10	14	4	0	4	0	18	18	36
Grand Total	10	24	34	16	0	16	0	57	57	107
Apprch %	29.4	70.6		100	0		0	100		
Total %	9.3	22.4	31.8	15	0	15	0	53.3	53.3	

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	**2**	1	**3**	**4**	0	**4**	0	8	8	**15**
04:45 PM	1	**2**	3	2	0	2	0	**9**	**9**	14
05:00 PM	1	1	2	0	0	0	0	9	9	11
05:15 PM	1	2	3	0	0	0	0	5	5	8
Total Volume	5	6	11	6	0	6	0	31	31	48
% App. Total	45.5	54.5		100	0		0	100		
PHF	.625	.750	.917	.375	.000	.375	.000	.861	.861	.800

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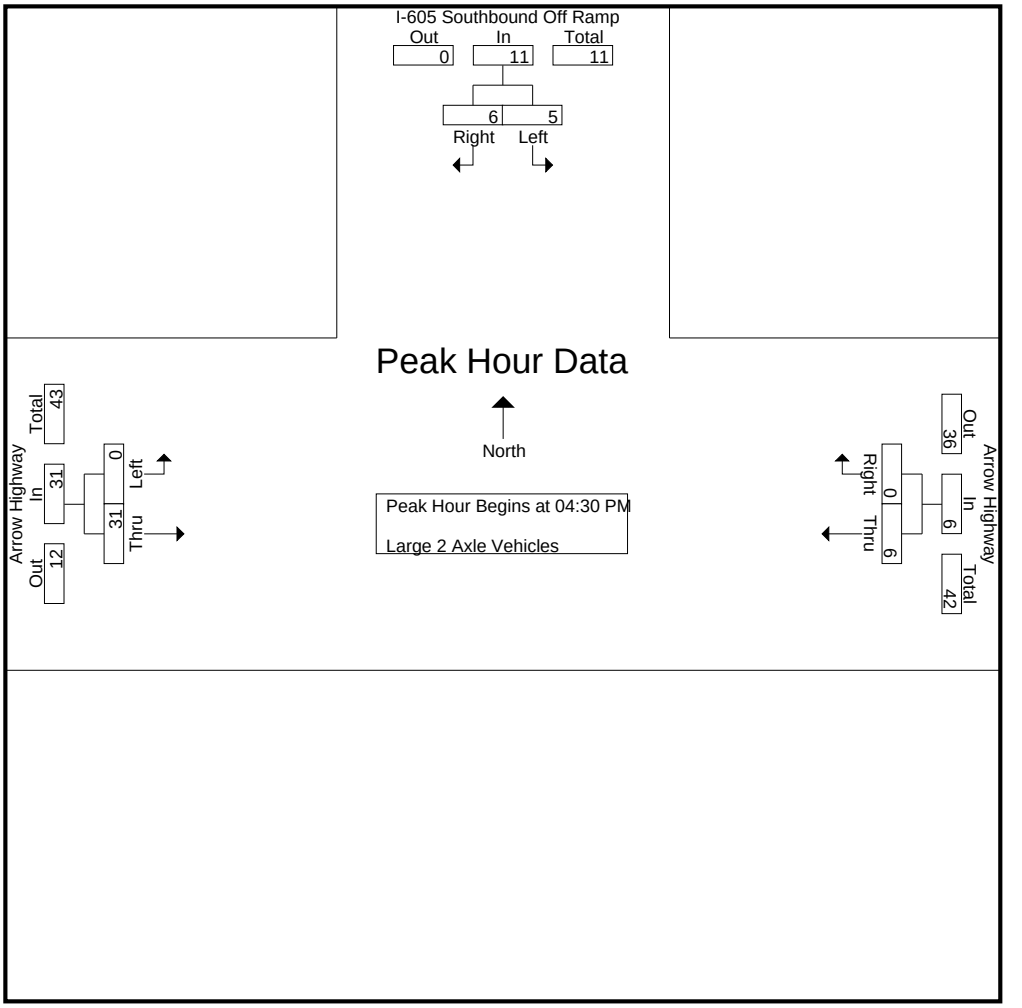

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	**2**	1	**3**	**4**	0	**4**	0	8	8
+15 mins.	1	**2**	3	2	0	2	0	**9**	**9**
+30 mins.	1	1	2	0	0	0	0	9	9
+45 mins.	1	2	3	0	0	0	0	5	5
Total Volume	5	6	11	6	0	6	0	31	31
% App. Total	45.5	54.5		100	0		0	100	
PHF	.625	.750	.917	.375	.000	.375	.000	.861	.861

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City of Irwindale
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Weather: Clear

File Name : 02_IRW_605S Off Ramp_Arrow Hwy PM
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Groups Printed- 3 Axle Vehicles

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	3	3	3
04:15 PM	1	3	4	1	0	1	0	1	1	6
04:30 PM	1	0	1	0	0	0	0	1	1	2
04:45 PM	2	1	3	0	0	0	0	1	1	4
Total	4	4	8	1	0	1	0	6	6	15
05:00 PM	3	2	5	1	0	1	0	1	1	7
05:15 PM	0	0	0	1	0	1	0	1	1	2
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	2	2	2
Total	3	2	5	2	0	2	0	4	4	11
Grand Total	7	6	13	3	0	3	0	10	10	26
Apprch %	53.8	46.2		100	0		0	100		
Total %	26.9	23.1	50	11.5	0	11.5	0	38.5	38.5	

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	1	0	1	0	0	0	0	**1**	**1**	2
04:45 PM	2	1	3	0	0	0	0	1	1	4
05:00 PM	**3**	**2**	**5**	**1**	0	**1**	0	1	1	**7**
05:15 PM	0	0	0	1	0	1	0	1	1	2
Total Volume	6	3	9	2	0	2	0	4	4	15
% App. Total	66.7	33.3		100	0		0	100		
PHF	.500	.375	.450	.500	.000	.500	.000	1.00	1.00	.536

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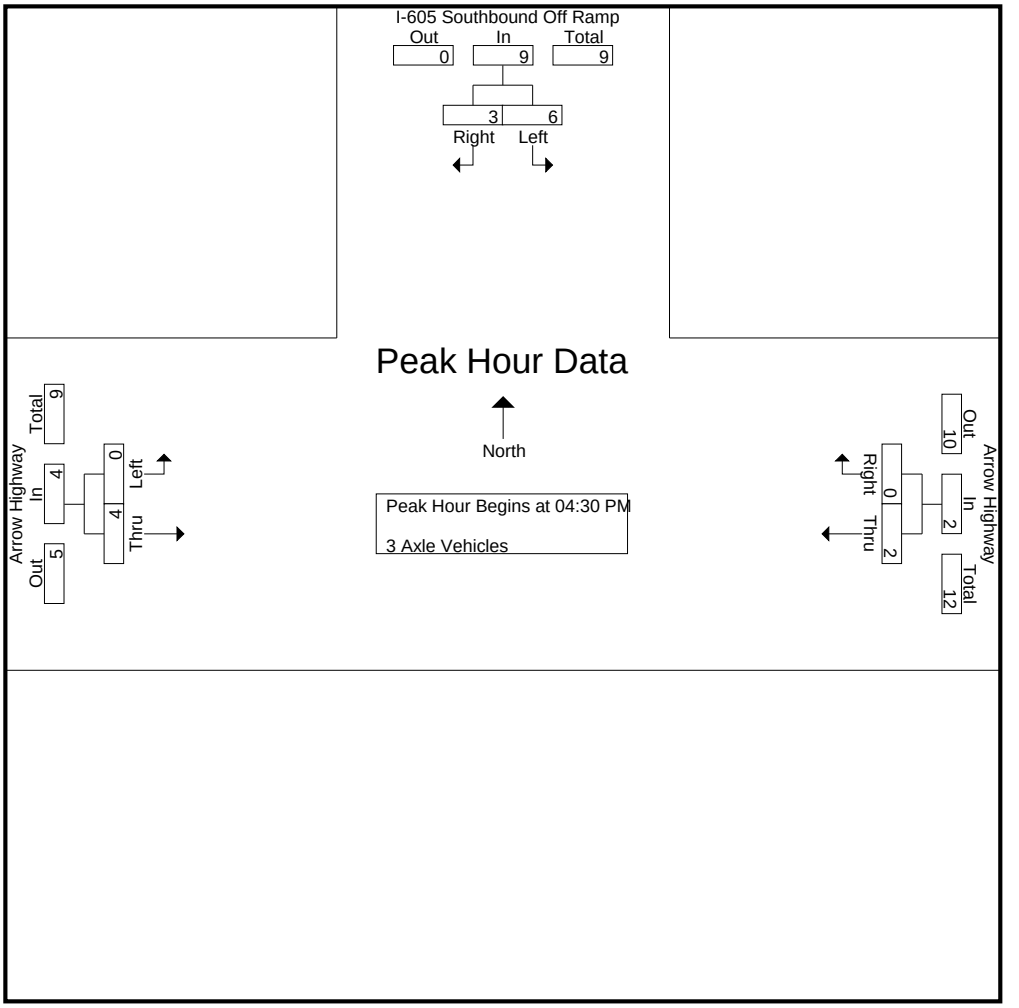

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	1	0	1	0	0	0	0	**1**	**1**
+15 mins.	2	1	3	0	0	0	0	1	1
+30 mins.	**3**	**2**	**5**	**1**	0	**1**	0	1	1
+45 mins.	0	0	0	1	0	1	0	1	1
Total Volume	6	3	9	2	0	2	0	4	4
% App. Total	66.7	33.3		100	0		0	100	
PHF	.500	.375	.450	.500	.000	.500	.000	1.000	1.000

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Groups Printed- 4+ Axle Trucks

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	2	4	6	0	0	0	0	1	1	7
04:15 PM	2	4	6	0	0	0	0	1	1	7
04:30 PM	2	2	4	0	0	0	0	2	2	6
04:45 PM	3	2	5	0	0	0	0	2	2	7
Total	9	12	21	0	0	0	0	6	6	27
05:00 PM	5	2	7	0	0	0	0	1	1	8
05:15 PM	1	2	3	1	0	1	0	1	1	5
05:30 PM	1	1	2	0	0	0	0	1	1	3
05:45 PM	1	3	4	0	0	0	0	1	1	5
Total	8	8	16	1	0	1	0	4	4	21
Grand Total	17	20	37	1	0	1	0	10	10	48
Apprch %	45.9	54.1		100	0		0	100		
Total %	35.4	41.7	77.1	2.1	0	2.1	0	20.8	20.8	

	I-605 Southbound Off Ramp Southbound			Arrow Highway Westbound			Arrow Highway Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	2	**2**	4	0	0	0	0	**2**	**2**	6
04:45 PM	3	2	5	0	0	0	0	2	2	7
05:00 PM	**5**	2	**7**	0	0	0	0	1	1	**8**
05:15 PM	1	2	3	**1**	0	**1**	0	1	1	5
Total Volume	11	8	19	1	0	1	0	6	6	26
% App. Total	57.9	42.1		100	0		0	100		
PHF	.550	1.00	.679	.250	.000	.250	.000	.750	.750	.813

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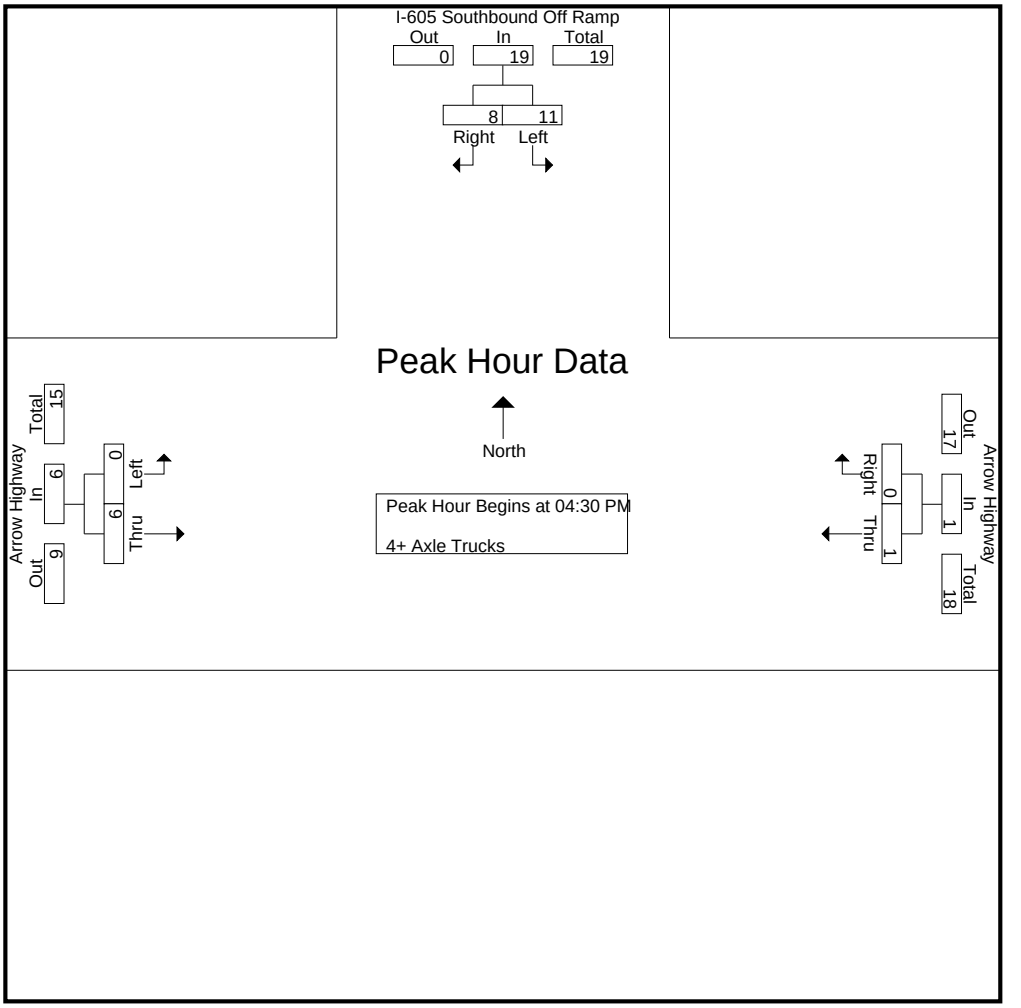

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	2	**2**	4	0	0	0	0	**2**	**2**
+15 mins.	3	2	5	0	0	0	0	2	2
+30 mins.	**5**	2	**7**	0	0	0	0	1	1
+45 mins.	1	2	3	**1**	0	**1**	0	1	1
Total Volume	11	8	19	1	0	1	0	6	6
% App. Total	57.9	42.1		100	0		0	100	
PHF	.550	1.000	.679	.250	.000	.250	.000	.750	.750

Counts Unlimited
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City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp AM
Site Code : 22519365
Start Date : 5/23/2019
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	267	267	36	24	60	162	0	162	489
07:15 AM	0	299	299	42	36	78	159	0	159	536
07:30 AM	0	314	314	55	22	77	184	0	184	575
07:45 AM	0	262	262	59	37	96	257	0	257	615
Total	0	1142	1142	192	119	311	762	0	762	2215
08:00 AM	0	266	266	51	52	103	221	0	221	590
08:15 AM	0	268	268	52	63	115	221	0	221	604
08:30 AM	0	296	296	54	43	97	205	0	205	598
08:45 AM	0	260	260	63	51	114	194	0	194	568
Total	0	1090	1090	220	209	429	841	0	841	2360
Grand Total	0	2232	2232	412	328	740	1603	0	1603	4575
Apprch %	0	100		55.7	44.3		100	0		
Total %	0	48.8	48.8	9	7.2	16.2	35	0	35	
Passenger Vehicles	0	2043	2043	366	298	664	1450	0	1450	4157
% Passenger Vehicles	0	91.5	91.5	88.8	90.9	89.7	90.5	0	90.5	90.9
Large 2 Axle Vehicles	0	65	65	17	9	26	63	0	63	154
% Large 2 Axle Vehicles	0	2.9	2.9	4.1	2.7	3.5	3.9	0	3.9	3.4
3 Axle Vehicles	0	60	60	4	2	6	44	0	44	110
% 3 Axle Vehicles	0	2.7	2.7	1	0.6	0.8	2.7	0	2.7	2.4
4+ Axle Trucks	0	64	64	25	19	44	46	0	46	154
% 4+ Axle Trucks	0	2.9	2.9	6.1	5.8	5.9	2.9	0	2.9	3.4

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	0	262	262	**59**	37	96	**257**	0	**257**	**615**
08:00 AM	0	266	266	51	52	103	221	0	221	590
08:15 AM	0	268	268	52	**63**	**115**	221	0	221	604
08:30 AM	0	**296**	**296**	54	43	97	205	0	205	598
Total Volume	0	1092	1092	216	195	411	904	0	904	2407
% App. Total	0	100		52.6	47.4		100	0		
PHF	.000	.922	.922	.915	.774	.893	.879	.000	.879	.978

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City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp AM
Site Code : 22519365
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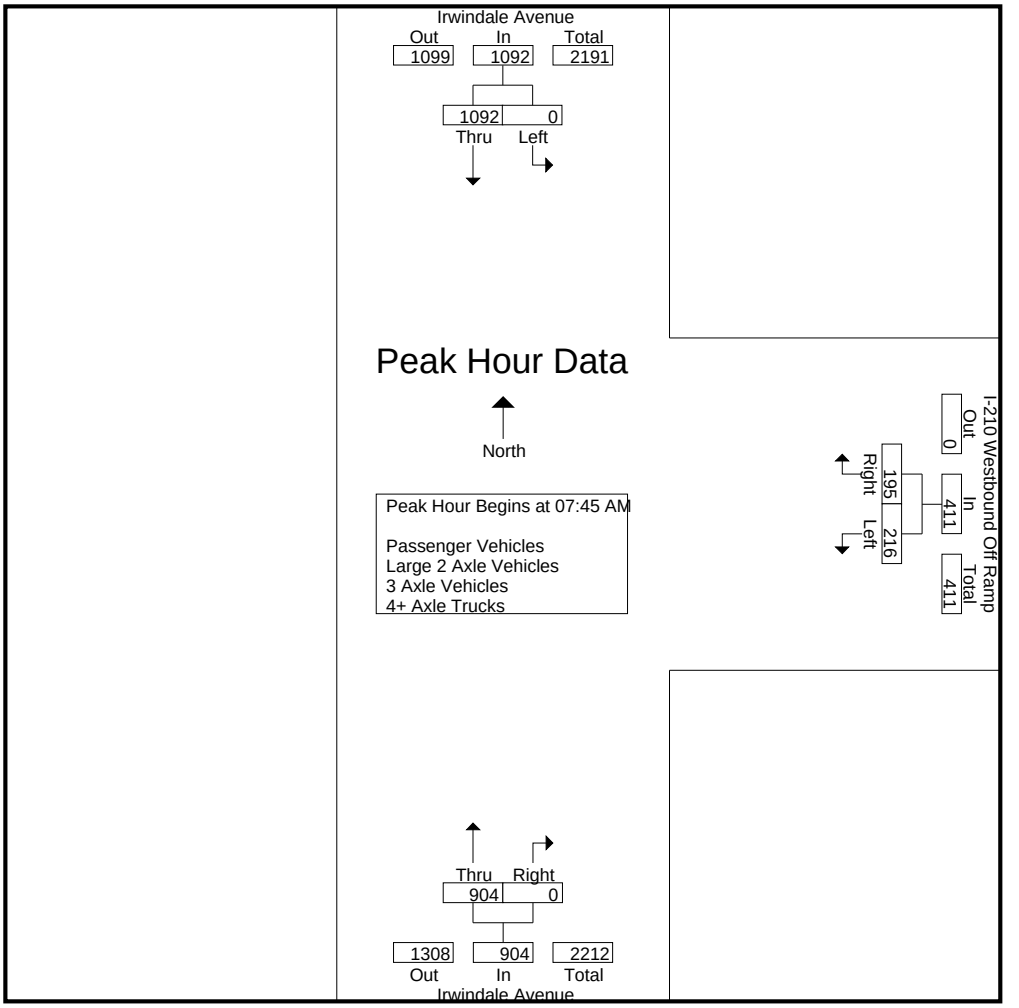

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			08:00 AM			07:45 AM		
+0 mins.	0	267	267	51	52	103	**257**	0	**257**
+15 mins.	0	299	299	52	**63**	**115**	221	0	221
+30 mins.	0	**314**	**314**	54	43	97	221	0	221
+45 mins.	0	262	262	**63**	51	114	205	0	205
Total Volume	0	1142	1142	220	209	429	904	0	904
% App. Total	0	100		51.3	48.7		100	0	
PHF	.000	.909	.909	.873	.829	.933	.879	.000	.879

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City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp AM
Site Code : 22519365
Start Date : 5/23/2019
Page No : 1

Groups Printed- Passenger Vehicles

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	243	243	30	22	52	141	0	141	436
07:15 AM	0	270	270	39	34	73	144	0	144	487
07:30 AM	0	293	293	48	21	69	172	0	172	534
07:45 AM	0	249	249	57	33	90	235	0	235	574
Total	0	1055	1055	174	110	284	692	0	692	2031
08:00 AM	0	240	240	45	49	94	204	0	204	538
08:15 AM	0	243	243	45	55	100	199	0	199	542
08:30 AM	0	270	270	42	35	77	180	0	180	527
08:45 AM	0	235	235	60	49	109	175	0	175	519
Total	0	988	988	192	188	380	758	0	758	2126
Grand Total	0	2043	2043	366	298	664	1450	0	1450	4157
Apprch %	0	100		55.1	44.9		100	0		
Total %	0	49.1	49.1	8.8	7.2	16	34.9	0	34.9	

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	0	249	249	**57**	33	90	**235**	0	**235**	**574**
08:00 AM	0	240	240	45	49	94	204	0	204	538
08:15 AM	0	243	243	45	**55**	**100**	199	0	199	542
08:30 AM	0	**270**	**270**	42	35	77	180	0	180	527
Total Volume	0	1002	1002	189	172	361	818	0	818	2181
% App. Total	0	100		52.4	47.6		100	0		
PHF	.000	.928	.928	.829	.782	.903	.870	.000	.870	.950

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City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp AM
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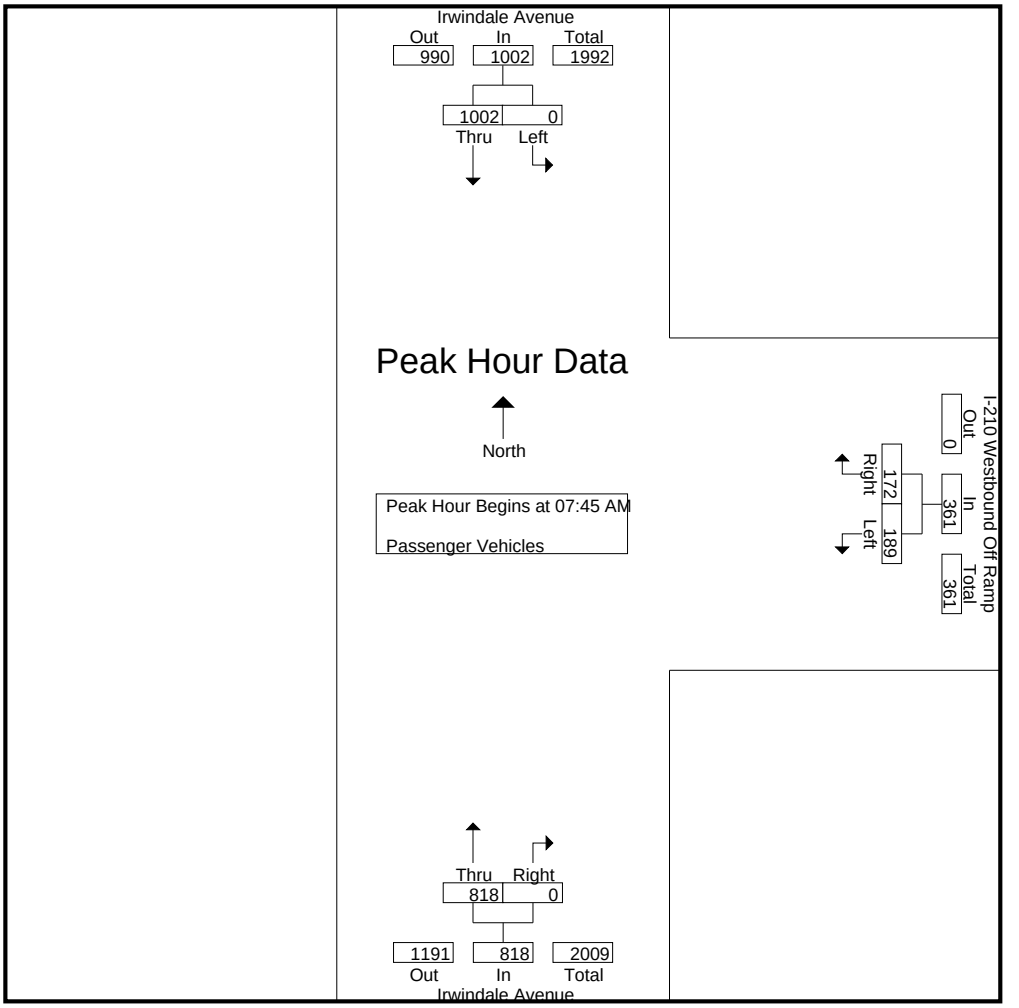

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:45 AM			07:45 AM		
+0 mins.	0	249	249	**57**	33	90	**235**	0	**235**
+15 mins.	0	240	240	45	49	94	204	0	204
+30 mins.	0	243	243	45	**55**	**100**	199	0	199
+45 mins.	0	**270**	**270**	42	35	77	180	0	180
Total Volume	0	1002	1002	189	172	361	818	0	818
% App. Total	0	100		52.4	47.6		100	0	
PHF	.000	.928	.928	.829	.782	.903	.870	.000	.870

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City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp AM
Site Code : 22519365
Start Date : 5/23/2019
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Groups Printed- Large 2 Axle Vehicles

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	5	5	1	0	1	9	0	9	15
07:15 AM	0	13	13	1	1	2	10	0	10	25
07:30 AM	0	11	11	2	0	2	6	0	6	19
07:45 AM	0	2	2	2	3	5	8	0	8	15
Total	0	31	31	6	4	10	33	0	33	74
08:00 AM	0	9	9	2	1	3	6	0	6	18
08:15 AM	0	10	10	4	2	6	10	0	10	26
08:30 AM	0	11	11	4	0	4	7	0	7	22
08:45 AM	0	4	4	1	2	3	7	0	7	14
Total	0	34	34	11	5	16	30	0	30	80
Grand Total	0	65	65	17	9	26	63	0	63	154
Apprch %	0	100		65.4	34.6		100	0		
Total %	0	42.2	42.2	11	5.8	16.9	40.9	0	40.9	

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	0	2	2	2	**3**	5	8	0	8	15
08:00 AM	0	9	9	2	1	3	6	0	6	18
08:15 AM	0	10	10	**4**	2	**6**	**10**	0	**10**	**26**
08:30 AM	0	**11**	**11**	4	0	4	7	0	7	22
Total Volume	0	32	32	12	6	18	31	0	31	81
% App. Total	0	100		66.7	33.3		100	0		
PHF	.000	.727	.727	.750	.500	.750	.775	.000	.775	.779

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City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp AM
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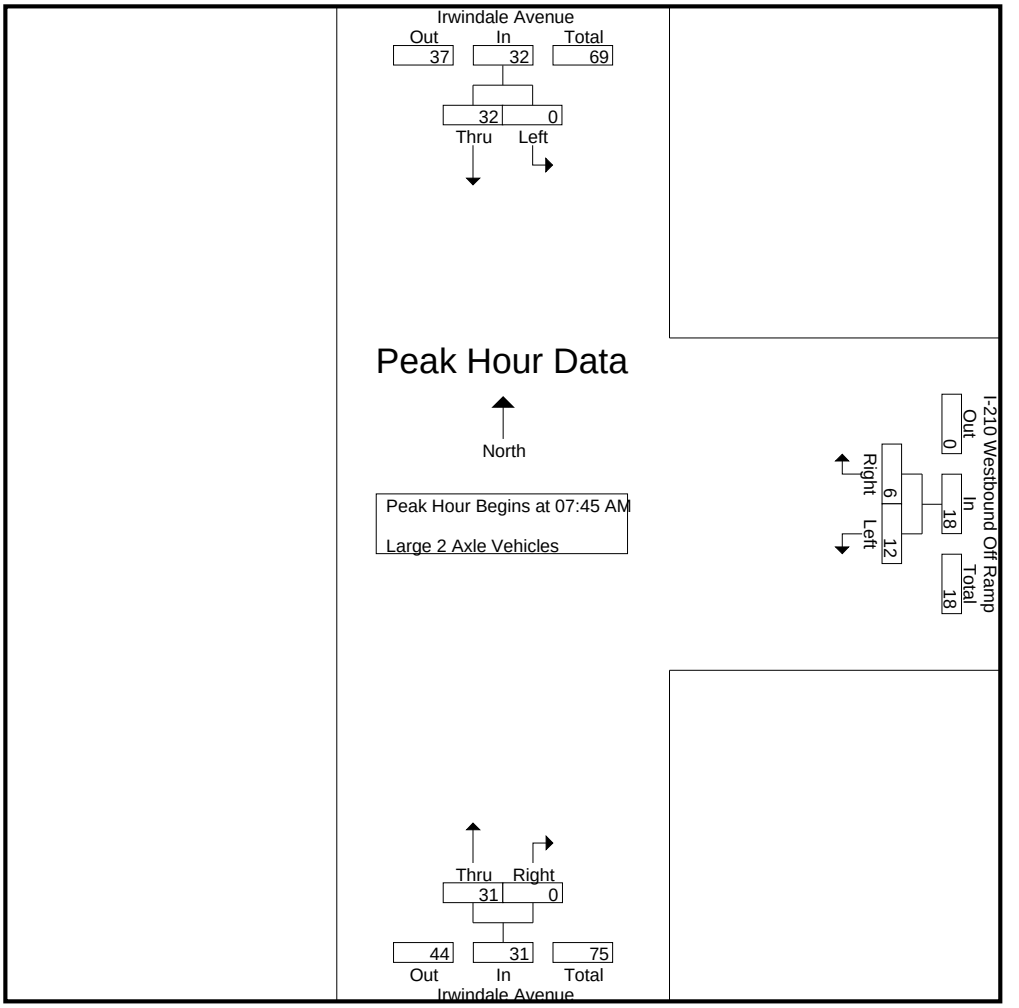

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:45 AM			07:45 AM		
+0 mins.	0	2	2	2	**3**	5	8	0	8
+15 mins.	0	9	9	2	1	3	6	0	6
+30 mins.	0	10	10	**4**	2	**6**	**10**	0	**10**
+45 mins.	0	**11**	**11**	4	0	4	7	0	7
Total Volume	0	32	32	12	6	18	31	0	31
% App. Total	0	100		66.7	33.3		100	0	
PHF	.000	.727	.727	.750	.500	.750	.775	.000	.775

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City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp AM
Site Code : 22519365
Start Date : 5/23/2019
Page No : 1

Groups Printed- 3 Axle Vehicles

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	11	11	0	0	0	6	0	6	17
07:15 AM	0	7	7	0	0	0	2	0	2	9
07:30 AM	0	7	7	0	0	0	2	0	2	9
07:45 AM	0	7	7	0	0	0	8	0	8	15
Total	0	32	32	0	0	0	18	0	18	50
08:00 AM	0	7	7	1	1	2	6	0	6	15
08:15 AM	0	6	6	1	0	1	7	0	7	14
08:30 AM	0	9	9	2	1	3	10	0	10	22
08:45 AM	0	6	6	0	0	0	3	0	3	9
Total	0	28	28	4	2	6	26	0	26	60
Grand Total	0	60	60	4	2	6	44	0	44	110
Apprch %	0	100		66.7	33.3		100	0		
Total %	0	54.5	54.5	3.6	1.8	5.5	40	0	40	

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	0	7	7	0	0	0	8	0	8	15
08:00 AM	0	7	7	1	**1**	2	6	0	6	15
08:15 AM	0	6	6	1	0	1	7	0	7	14
08:30 AM	0	**9**	**9**	**2**	1	**3**	**10**	0	**10**	**22**
Total Volume	0	29	29	4	2	6	31	0	31	66
% App. Total	0	100		66.7	33.3		100	0		
PHF	.000	.806	.806	.500	.500	.500	.775	.000	.775	.750

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City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp AM
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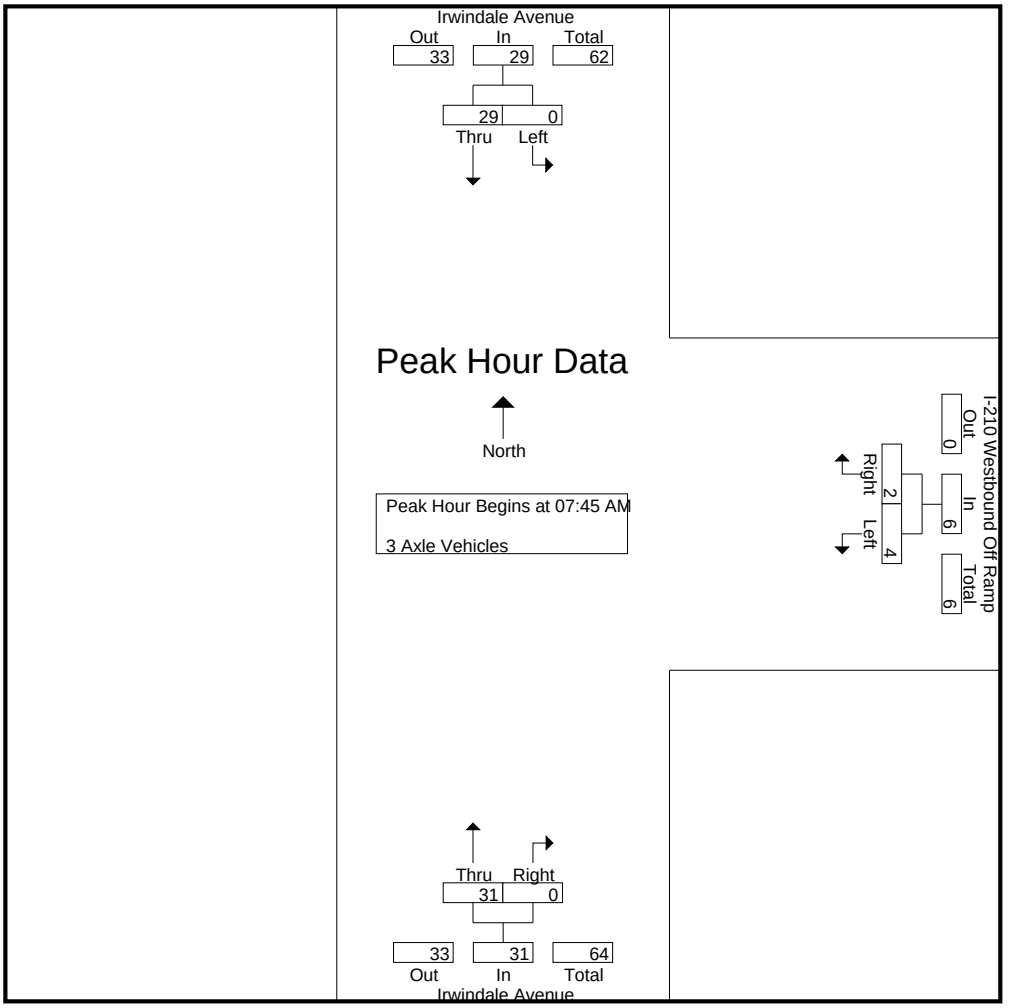

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:45 AM			07:45 AM		
+0 mins.	0	7	7	0	0	0	8	0	8
+15 mins.	0	7	7	1	**1**	2	6	0	6
+30 mins.	0	6	6	1	0	1	7	0	7
+45 mins.	0	**9**	**9**	**2**	1	**3**	**10**	0	**10**
Total Volume	0	29	29	4	2	6	31	0	31
% App. Total	0	100		66.7	33.3		100	0	
PHF	.000	.806	.806	.500	.500	.500	.775	.000	.775

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City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp AM
Site Code : 22519365
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Groups Printed- 4+ Axle Trucks

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	8	8	5	2	7	6	0	6	21
07:15 AM	0	9	9	2	1	3	3	0	3	15
07:30 AM	0	3	3	5	1	6	4	0	4	13
07:45 AM	0	4	4	0	1	1	6	0	6	11
Total	0	24	24	12	5	17	19	0	19	60
08:00 AM	0	10	10	3	1	4	5	0	5	19
08:15 AM	0	9	9	2	6	8	5	0	5	22
08:30 AM	0	6	6	6	7	13	8	0	8	27
08:45 AM	0	15	15	2	0	2	9	0	9	26
Total	0	40	40	13	14	27	27	0	27	94
Grand Total	0	64	64	25	19	44	46	0	46	154
Apprch %	0	100		56.8	43.2		100	0		
Total %	0	41.6	41.6	16.2	12.3	28.6	29.9	0	29.9	

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:45 AM										
07:45 AM	0	4	4	0	1	1	6	0	6	11
08:00 AM	0	**10**	**10**	3	1	4	5	0	5	19
08:15 AM	0	9	9	2	6	8	5	0	5	22
08:30 AM	0	6	6	**6**	**7**	**13**	**8**	0	**8**	**27**
Total Volume	0	29	29	11	15	26	24	0	24	79
% App. Total	0	100		42.3	57.7		100	0		
PHF	.000	.725	.725	.458	.536	.500	.750	.000	.750	.731

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City of Irwindale
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File Name : 01_IRW_Irwindale Ave_210W Off Ramp AM
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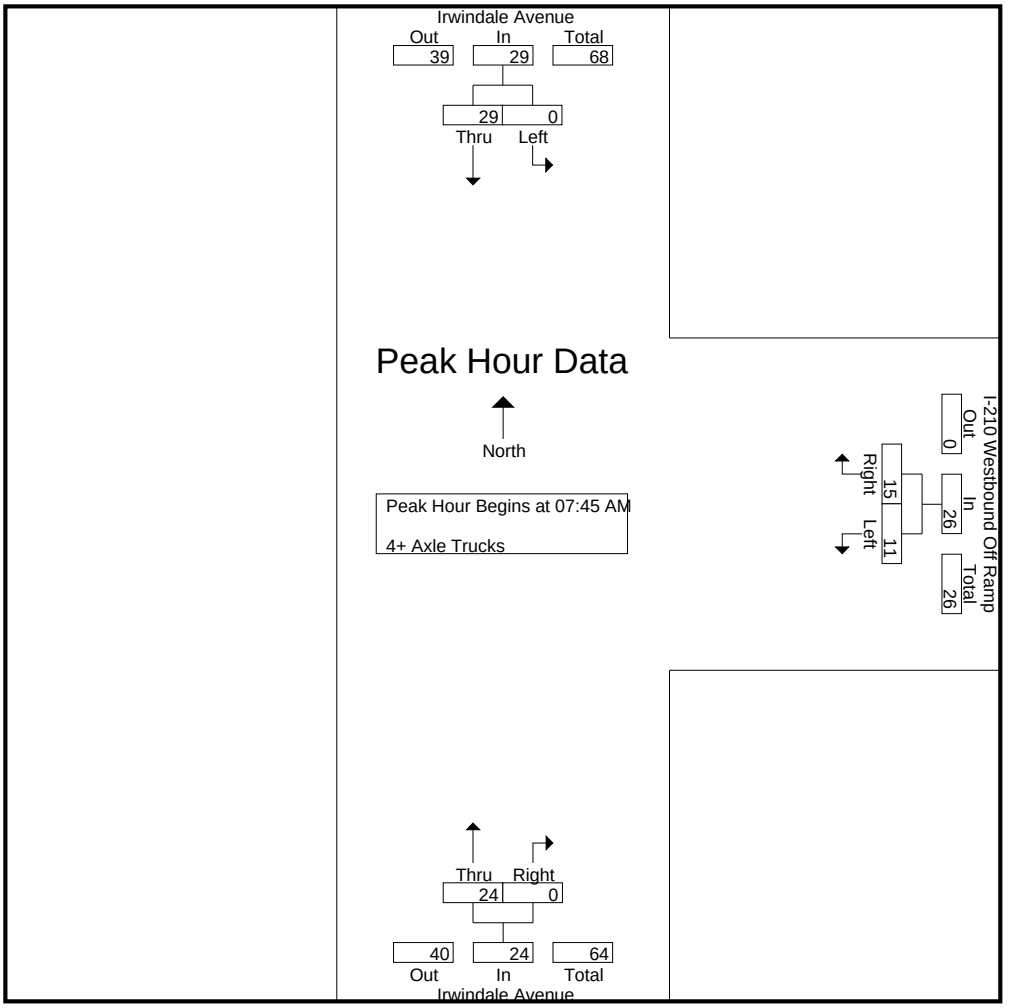

Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:45 AM			07:45 AM		
+0 mins.	0	4	4	0	1	1	6	0	6
+15 mins.	0	**10**	**10**	3	1	4	5	0	5
+30 mins.	0	9	9	2	6	8	5	0	5
+45 mins.	0	6	6	**6**	**7**	**13**	**8**	0	**8**
Total Volume	0	29	29	11	15	26	24	0	24
% App. Total	0	100		42.3	57.7		100	0	
PHF	.000	.725	.725	.458	.536	.500	.750	.000	.750

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City of Irwindale
N/S: Irwindale Avenue
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Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp PM
Site Code : 22519365
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

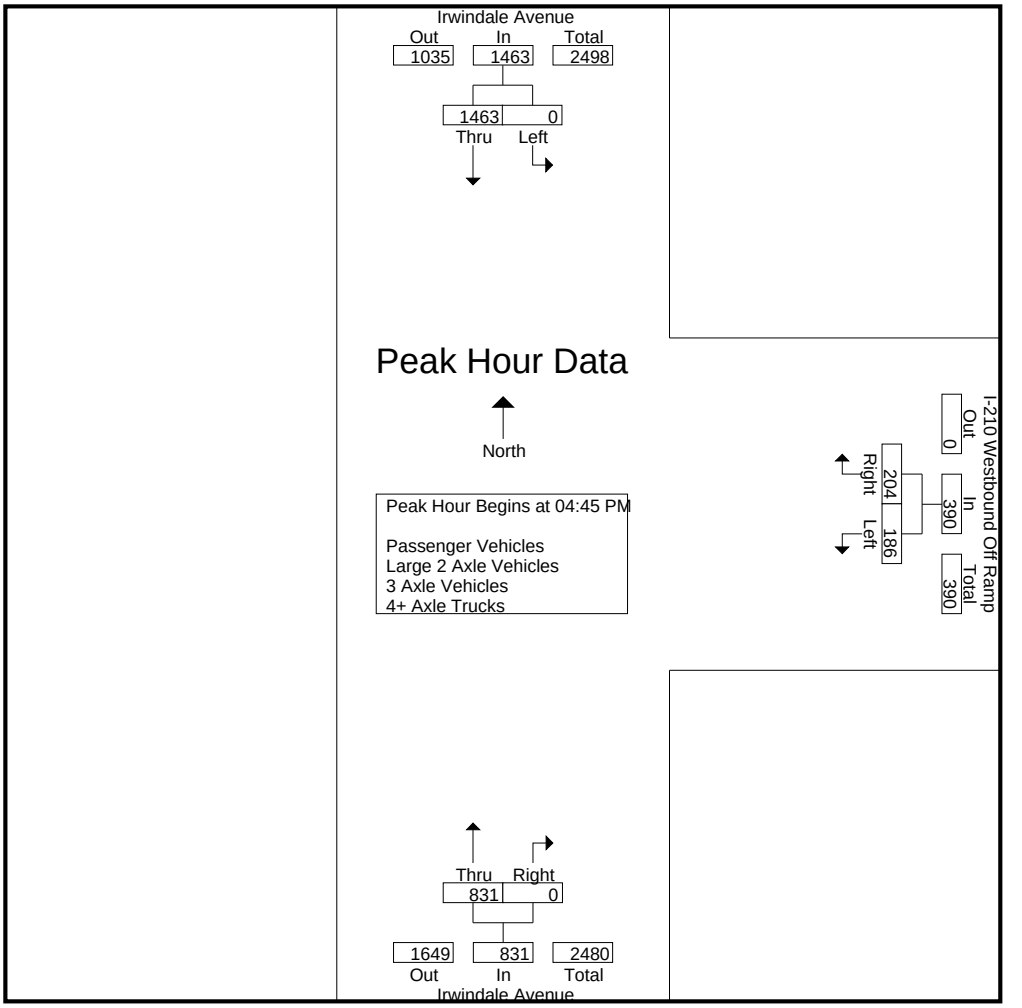
	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	333	333	46	54	100	211	0	211	644
04:15 PM	0	351	351	51	51	102	190	0	190	643
04:30 PM	0	381	381	51	46	97	211	0	211	689
04:45 PM	0	359	359	56	39	95	202	0	202	656
Total	0	1424	1424	204	190	394	814	0	814	2632
05:00 PM	0	357	357	53	55	108	198	0	198	663
05:15 PM	0	357	357	48	48	96	222	0	222	675
05:30 PM	0	390	390	29	62	91	209	0	209	690
05:45 PM	0	353	353	36	48	84	195	0	195	632
Total	0	1457	1457	166	213	379	824	0	824	2660
Grand Total	0	2881	2881	370	403	773	1638	0	1638	5292
Apprch %	0	100		47.9	52.1		100	0		
Total %	0	54.4	54.4	7	7.6	14.6	31	0	31	
Passenger Vehicles	0	2783	2783	301	389	690	1567	0	1567	5040
% Passenger Vehicles	0	96.6	96.6	81.4	96.5	89.3	95.7	0	95.7	95.2
Large 2 Axle Vehicles	0	47	47	32	9	41	41	0	41	129
% Large 2 Axle Vehicles	0	1.6	1.6	8.6	2.2	5.3	2.5	0	2.5	2.4
3 Axle Vehicles	0	27	27	20	1	21	8	0	8	56
% 3 Axle Vehicles	0	0.9	0.9	5.4	0.2	2.7	0.5	0	0.5	1.1
4+ Axle Trucks	0	24	24	17	4	21	22	0	22	67
% 4+ Axle Trucks	0	0.8	0.8	4.6	1	2.7	1.3	0	1.3	1.3

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	0	359	359	**56**	39	95	202	0	202	656
05:00 PM	0	357	357	53	55	**108**	198	0	198	663
05:15 PM	0	357	357	48	48	96	**222**	0	**222**	675
05:30 PM	0	**390**	**390**	29	**62**	91	209	0	209	**690**
Total Volume	0	1463	1463	186	204	390	831	0	831	2684
% App. Total	0	100		47.7	52.3		100	0		
PHF	.000	.938	.938	.830	.823	.903	.936	.000	.936	.972

Counts Unlimited
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp PM
Site Code : 22519365
Start Date : 5/23/2019
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:15 PM			04:30 PM		
+0 mins.	0	359	359	51	51	102	211	0	211
+15 mins.	0	357	357	51	46	97	202	0	202
+30 mins.	0	357	357	**56**	39	95	198	0	198
+45 mins.	0	**390**	**390**	53	**55**	**108**	**222**	0	**222**
Total Volume	0	1463	1463	211	191	402	833	0	833
% App. Total	0	100		52.5	47.5		100	0	
PHF	.000	.938	.938	.942	.868	.931	.938	.000	.938

Counts Unlimited
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City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp PM
Site Code : 22519365
Start Date : 5/23/2019
Page No : 1

Groups Printed- Passenger Vehicles

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	319	319	33	52	85	195	0	195	599
04:15 PM	0	335	335	36	50	86	181	0	181	602
04:30 PM	0	369	369	40	39	79	197	0	197	645
04:45 PM	0	348	348	48	38	86	195	0	195	629
Total	0	1371	1371	157	179	336	768	0	768	2475
05:00 PM	0	341	341	46	55	101	194	0	194	636
05:15 PM	0	350	350	39	47	86	213	0	213	649
05:30 PM	0	380	380	24	62	86	199	0	199	665
05:45 PM	0	341	341	35	46	81	193	0	193	615
Total	0	1412	1412	144	210	354	799	0	799	2565
Grand Total	0	2783	2783	301	389	690	1567	0	1567	5040
Apprch %	0	100		43.6	56.4		100	0		
Total %	0	55.2	55.2	6	7.7	13.7	31.1	0	31.1	

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	0	348	348	**48**	38	86	195	0	195	629
05:00 PM	0	341	341	46	55	**101**	194	0	194	636
05:15 PM	0	350	350	39	47	86	**213**	0	**213**	649
05:30 PM	0	**380**	**380**	24	**62**	86	199	0	199	**665**
Total Volume	0	1419	1419	157	202	359	801	0	801	2579
% App. Total	0	100		43.7	56.3		100	0		
PHF	.000	.934	.934	.818	.815	.889	.940	.000	.940	.970

Counts Unlimited
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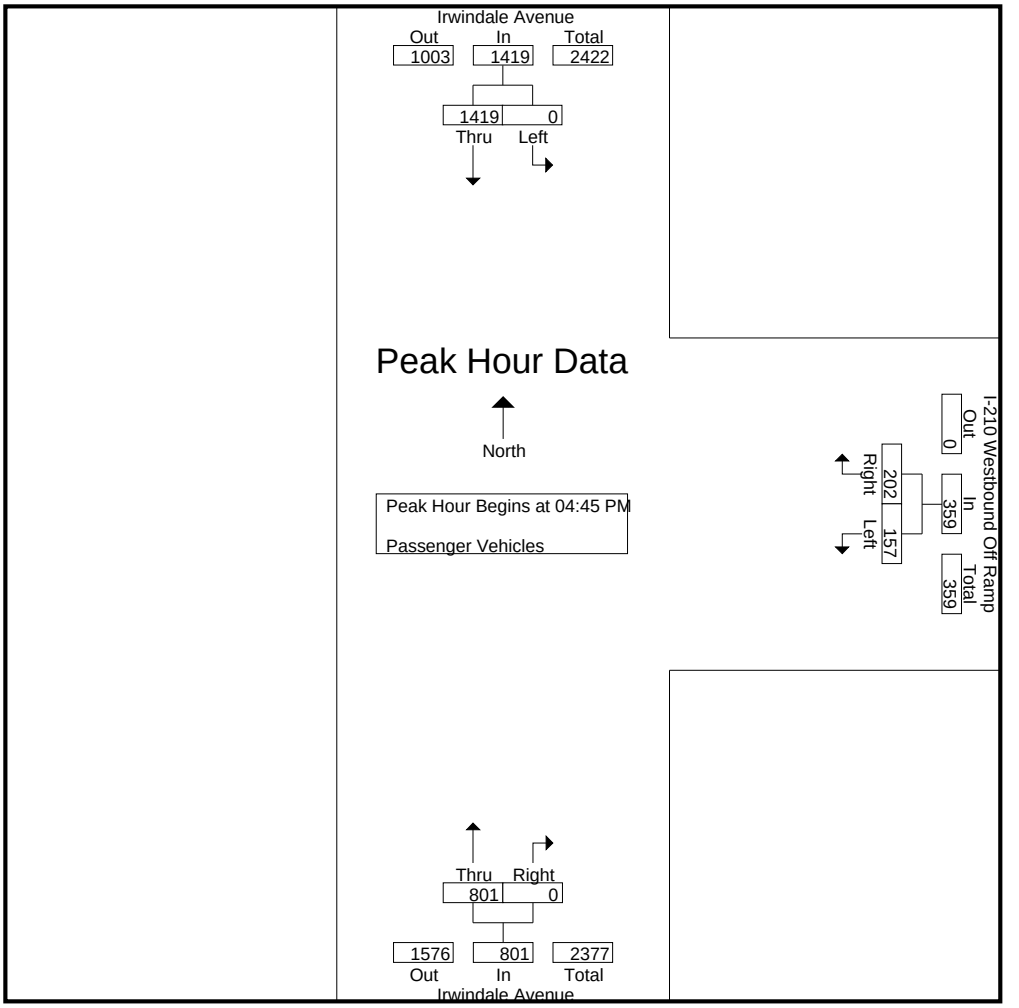
City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp PM
Site Code : 22519365
Start Date : 5/23/2019
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	0	348	348	**48**	38	86	195	0	195
+15 mins.	0	341	341	46	55	**101**	194	0	194
+30 mins.	0	350	350	39	47	86	**213**	0	**213**
+45 mins.	0	**380**	**380**	24	**62**	86	199	0	199
Total Volume	0	1419	1419	157	202	359	801	0	801
% App. Total	0	100		43.7	56.3		100	0	
PHF	.000	.934	.934	.818	.815	.889	.940	.000	.940

Counts Unlimited
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City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp PM
Site Code : 22519365
Start Date : 5/23/2019
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	3	3	7	2	9	8	0	8	20
04:15 PM	0	7	7	7	1	8	6	0	6	21
04:30 PM	0	5	5	3	5	8	8	0	8	21
04:45 PM	0	6	6	4	0	4	4	0	4	14
Total	0	21	21	21	8	29	26	0	26	76
05:00 PM	0	9	9	3	0	3	3	0	3	15
05:15 PM	0	5	5	4	0	4	4	0	4	13
05:30 PM	0	6	6	4	0	4	6	0	6	16
05:45 PM	0	6	6	0	1	1	2	0	2	9
Total	0	26	26	11	1	12	15	0	15	53
Grand Total	0	47	47	32	9	41	41	0	41	129
Apprch %	0	100		78	22		100	0		
Total %	0	36.4	36.4	24.8	7	31.8	31.8	0	31.8	

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	0	6	6	**4**	0	**4**	4	0	4	14
05:00 PM	0	**9**	**9**	3	0	3	3	0	3	15
05:15 PM	0	5	5	4	0	4	4	0	4	13
05:30 PM	0	6	6	4	0	4	**6**	0	**6**	**16**
Total Volume	0	26	26	15	0	15	17	0	17	58
% App. Total	0	100		100	0		100	0		
PHF	.000	.722	.722	.938	.000	.938	.708	.000	.708	.906

Counts Unlimited
PO Box 1178
Corona, CA 92878
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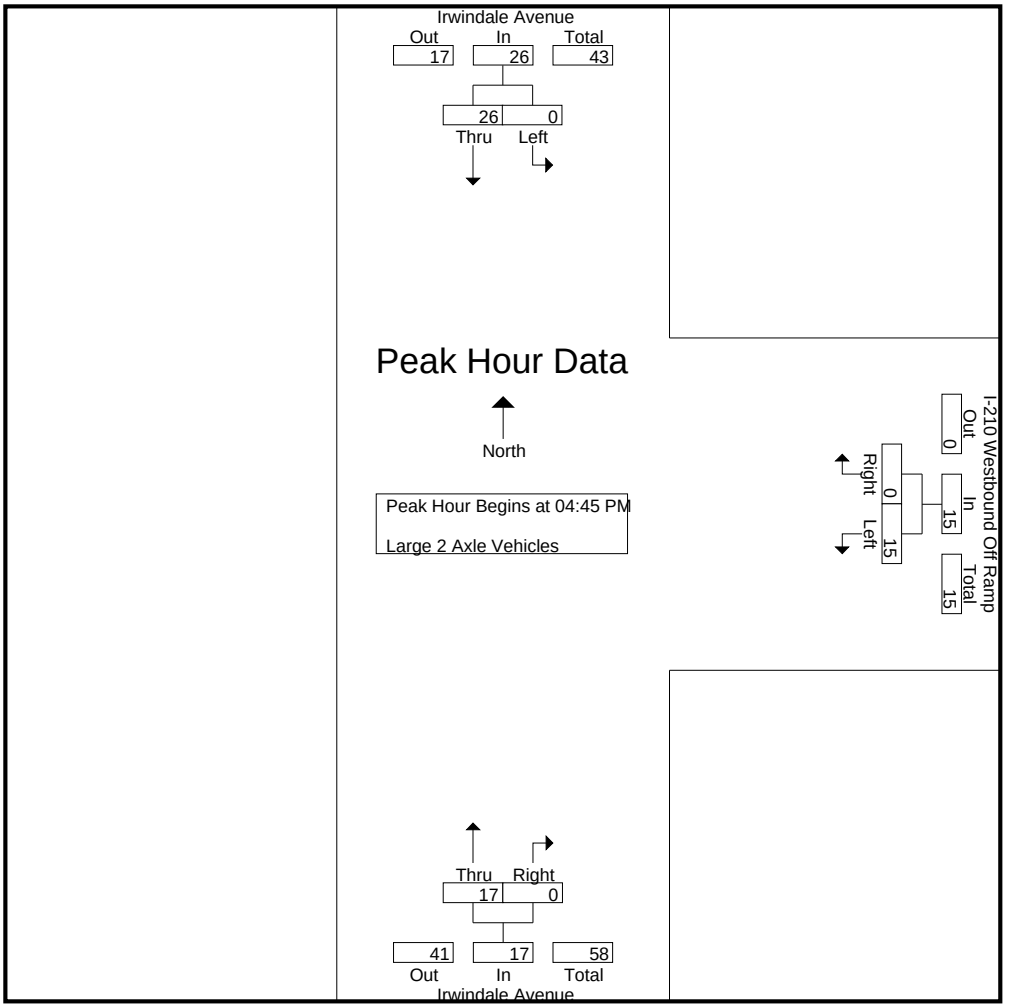
City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp PM
Site Code : 22519365
Start Date : 5/23/2019
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	0	6	6	**4**	0	**4**	4	0	4
+15 mins.	0	**9**	**9**	3	0	3	3	0	3
+30 mins.	0	5	5	4	0	4	4	0	4
+45 mins.	0	6	6	4	0	4	**6**	0	**6**
Total Volume	0	26	26	15	0	15	17	0	17
% App. Total	0	100		100	0		100	0	
PHF	.000	.722	.722	.938	.000	.938	.708	.000	.708

Counts Unlimited
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City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp PM
Site Code : 22519365
Start Date : 5/23/2019
Page No : 1

Groups Printed- 3 Axle Vehicles

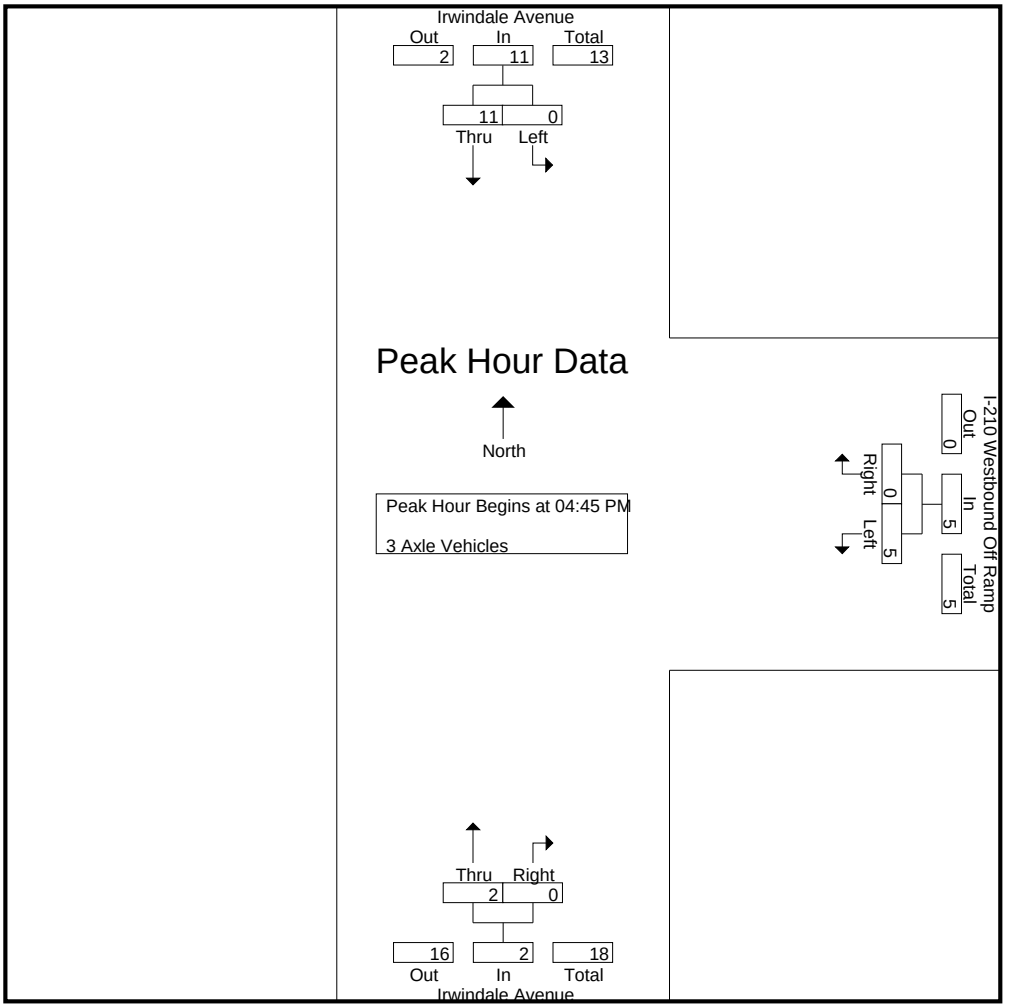
	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	5	5	3	0	3	4	0	4	12
04:15 PM	0	4	4	6	0	6	0	0	0	10
04:30 PM	0	5	5	5	0	5	2	0	2	12
04:45 PM	0	2	2	2	0	2	1	0	1	5
Total	0	16	16	16	0	16	7	0	7	39
05:00 PM	0	3	3	1	0	1	1	0	1	5
05:15 PM	0	2	2	2	0	2	0	0	0	4
05:30 PM	0	4	4	0	0	0	0	0	0	4
05:45 PM	0	2	2	1	1	2	0	0	0	4
Total	0	11	11	4	1	5	1	0	1	17
Grand Total	0	27	27	20	1	21	8	0	8	56
Apprch %	0	100		95.2	4.8		100	0		
Total %	0	48.2	48.2	35.7	1.8	37.5	14.3	0	14.3	

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	0	2	2	**2**	0	**2**	**1**	0	**1**	**5**
05:00 PM	0	3	3	1	0	1	1	0	1	5
05:15 PM	0	2	2	2	0	2	0	0	0	4
05:30 PM	0	**4**	**4**	0	0	0	0	0	0	4
Total Volume	0	11	11	5	0	5	2	0	2	18
% App. Total	0	100		100	0		100	0		
PHF	.000	.688	.688	.625	.000	.625	.500	.000	.500	.900

Counts Unlimited
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp PM
Site Code : 22519365
Start Date : 5/23/2019
Page No : 2



Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	0	2	2	**2**	0	**2**	**1**	0	**1**
+15 mins.	0	3	3	1	0	1	1	0	1
+30 mins.	0	2	2	2	0	2	0	0	0
+45 mins.	0	**4**	**4**	0	0	0	0	0	0
Total Volume	0	11	11	5	0	5	2	0	2
% App. Total	0	100		100	0		100	0	
PHF	.000	.688	.688	.625	.000	.625	.500	.000	.500

Counts Unlimited
PO Box 1178
Corona, CA 92878
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City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp PM
Site Code : 22519365
Start Date : 5/23/2019
Page No : 1

Groups Printed- 4+ Axle Trucks

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	6	6	3	0	3	4	0	4	13
04:15 PM	0	5	5	2	0	2	3	0	3	10
04:30 PM	0	2	2	3	2	5	4	0	4	11
04:45 PM	0	3	3	2	1	3	2	0	2	8
Total	0	16	16	10	3	13	13	0	13	42
05:00 PM	0	4	4	3	0	3	0	0	0	7
05:15 PM	0	0	0	3	1	4	5	0	5	9
05:30 PM	0	0	0	1	0	1	4	0	4	5
05:45 PM	0	4	4	0	0	0	0	0	0	4
Total	0	8	8	7	1	8	9	0	9	25
Grand Total	0	24	24	17	4	21	22	0	22	67
Apprch %	0	100		81	19		100	0		
Total %	0	35.8	35.8	25.4	6	31.3	32.8	0	32.8	

	Irwindale Avenue Southbound			I-210 Westbound Off Ramp Westbound			Irwindale Avenue Northbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:45 PM										
04:45 PM	0	3	3	2	**1**	3	2	0	2	8
05:00 PM	0	**4**	**4**	**3**	0	3	0	0	0	7
05:15 PM	0	0	0	3	1	**4**	**5**	0	**5**	**9**
05:30 PM	0	0	0	1	0	1	4	0	4	5
Total Volume	0	7	7	9	2	11	11	0	11	29
% App. Total	0	100		81.8	18.2		100	0		
PHF	.000	.438	.438	.750	.500	.688	.550	.000	.550	.806

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City of Irwindale
N/S: Irwindale Avenue
E/W: I-210 Westbound Off Ramp
Weather: Clear

File Name : 01_IRW_Irwindale Ave_210W Off Ramp PM
Site Code : 22519365
Start Date : 5/23/2019
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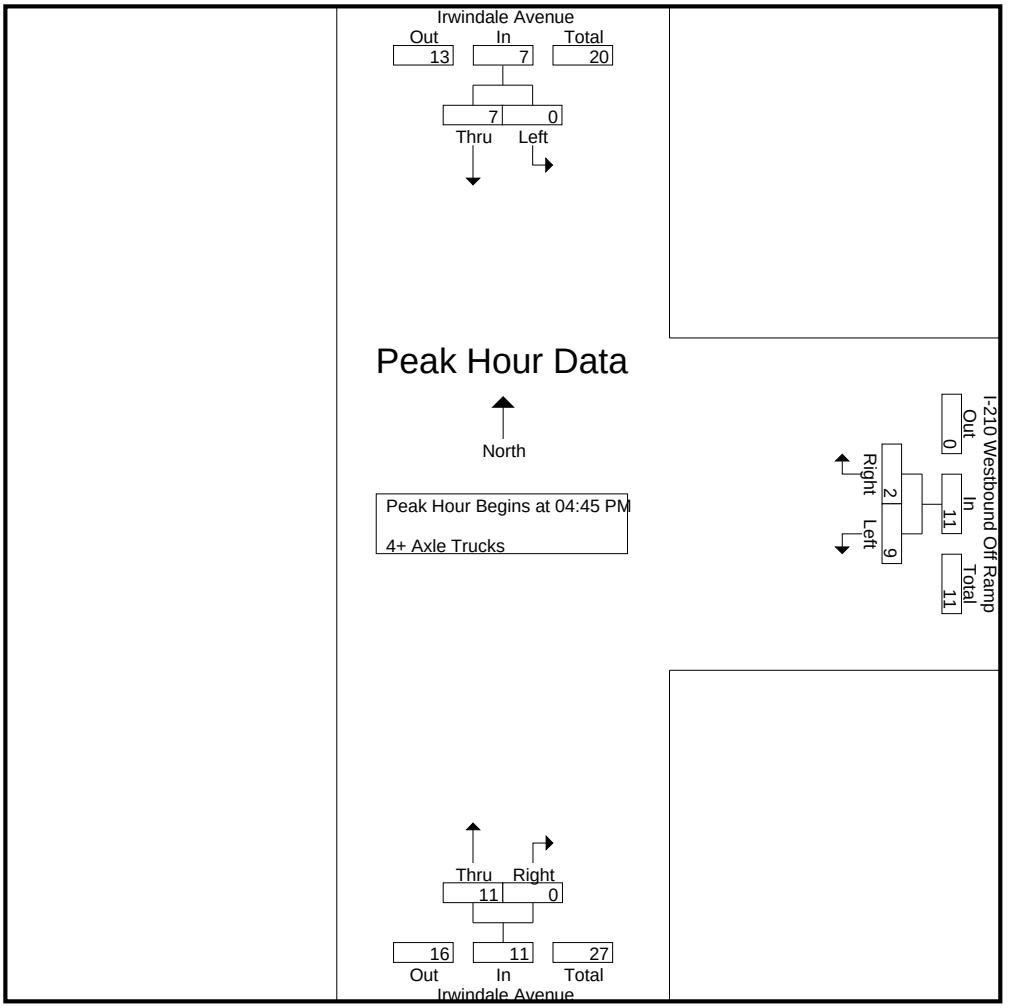

Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM			04:45 PM			04:45 PM		
+0 mins.	0	3	3	2	**1**	3	2	0	2
+15 mins.	0	**4**	**4**	**3**	0	3	0	0	0
+30 mins.	0	0	0	3	1	**4**	**5**	0	**5**
+45 mins.	0	0	0	1	0	1	4	0	4
Total Volume	0	7	7	9	2	11	11	0	11
% App. Total	0	100		81.8	18.2		100	0	
PHF	.000	.438	.438	.750	.500	.688	.550	.000	.550

City:	Irwindale
Location:	Azusa Canyon Road
Driveway:	North Driveway, Opposite Sandstone St
Date:	Thursday 11/1/2018
Count Type:	Classification

	Entering					Exiting				
	Pass Veh	Large 2 Axle	3 Axle	4+ Axle	Total	Pass Veh	Large 2 Axle	3 Axle	4+ Axle	Total
0:00	0	0	0	0	0	0	0	0	0	0
0:15	0	0	0	0	0	0	0	0	0	0
0:30	0	0	0	0	0	0	0	0	0	0
0:45	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0
1:15	0	0	0	0	0	0	0	0	0	0
1:30	0	0	0	0	0	0	0	0	0	0
1:45	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0
2:15	0	0	0	0	0	0	0	0	0	0
2:30	0	0	0	0	0	0	0	0	0	0
2:45	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0
3:15	0	0	0	0	0	0	0	0	0	0
3:30	0	0	0	0	0	0	0	0	0	0
3:45	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0
4:15	0	0	0	0	0	0	0	0	0	0
4:30	0	0	0	0	0	0	0	0	0	0
4:45	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0
5:15	0	0	0	0	0	0	0	0	0	0
5:30	0	0	0	0	0	0	0	0	0	0
5:45	0	0	0	0	0	0	0	0	0	0
6:00	8	0	0	0	8	0	0	0	0	0
6:15	4	0	1	0	5	0	0	1	0	1
6:30	4	0	0	0	4	0	0	0	0	0
6:45	9	0	0	0	9	1	0	0	0	1
7:00	3	0	0	0	3	0	0	0	0	0
7:15	10	1	0	0	11	1	0	0	0	1
7:30	6	0	0	0	6	4	0	0	0	4
7:45	1	1	0	0	2	2	0	0	0	2
8:00	0	0	0	0	0	11	4	0	0	15
8:15	0	1	0	0	1	13	1	0	0	14
8:30	1	0	0	0	1	3	3	0	0	6
8:45	0	0	0	0	0	3	3	0	0	6
9:00	0	0	0	0	0	0	0	0	0	0
9:15	1	0	0	0	1	0	0	0	0	0
9:30	1	0	0	0	1	1	0	0	0	1
9:45	0	0	0	0	0	0	0	0	0	0
10:00	0	1	0	0	1	1	0	0	0	1
10:15	0	0	0	0	0	0	0	0	0	0
10:30	0	0	0	0	0	0	0	0	0	0
10:45	0	0	0	0	0	2	0	0	0	2
11:00	0	0	0	0	0	1	0	0	0	1
11:15	0	0	0	0	0	1	0	0	0	1
11:30	1	0	0	0	1	0	1	0	0	1
11:45	0	0	0	0	0	1	0	0	0	1
12:00	0	0	0	0	0	0	0	0	0	0
12:15	1	0	0	0	1	0	0	0	0	0
12:30	3	0	0	0	3	1	0	0	0	1
12:45	1	0	0	0	1	0	0	0	0	0
13:00	0	0	0	0	0	1	0	0	0	1
13:15	2	0	0	0	2	0	0	0	0	0
13:30	3	0	0	0	3	2	0	0	0	2
13:45	0	0	0	0	0	2	0	0	0	2
14:00	0	1	0	0	1	3	0	0	0	3
14:15	1	0	0	0	1	0	0	0	0	0
14:30	2	0	0	0	2	2	0	0	0	2
14:45	6	2	0	0	8	0	0	0	0	0
15:00	5	2	0	0	7	2	0	0	0	2
15:15	5	1	0	0	6	0	0	0	0	0
15:30	5	0	0	0	5	7	0	0	0	7
15:45	4	0	0	0	4	4	0	0	0	4
16:00	3	0	0	0	3	16	0	0	0	16
16:15	5	1	0	0	6	5	0	0	0	5
16:30	3	2	0	0	5	7	0	0	0	7
16:45	5	2	0	0	7	5	0	0	0	5
17:00	5	3	1	0	9	4	0	0	0	4
17:15	5	1	0	0	6	4	0	0	0	4
17:30	1	0	0	0	1	7	0	0	0	7
17:45	1	0	0	0	1	4	0	0	0	4
18:00	1	0	0	0	1	0	0	0	0	0
18:15	2	0	0	0	2	2	0	0	0	2
18:30	0	0	0	0	0	1	0	0	0	1
18:45	1	0	0	0	1	0	0	0	0	0
19:00	0	0	0	0	0	1	0	0	0	1
19:15	0	0	0	0	0	0	0	0	0	0
19:30	0	0	0	0	0	0	0	0	0	0
19:45	0	0	0	0	0	0	0	0	0	0
20:00	0	0	0	0	0	0	0	0	0	0
20:15	0	0	0	0	0	0	0	0	0	0
20:30	0	0	0	0	0	0	0	0	0	0
20:45	0	0	0	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0	0	0	0
21:15	0	0	0	0	0	0	0	0	0	0
21:30	0	0	0	0	0	0	0	0	0	0
21:45	0	0	0	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0	0	0	0
22:15	0	0	0	0	0	0	0	0	0	0
22:30	0	0	0	0	0	0	0	0	0	0
22:45	0	0	0	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0	0	0	0
23:15	0	0	0	0	0	0	0	0	0	0
23:30	0	0	0	0	0	0	0	0	0	0
23:45	0	0	0	0	0	0	0	0	0	0
TOTAL	**119**	**19**	**2**	**0**	**140**	**125**	**12**	**1**	**0**	**138**

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City: Irwindale
Location: Azusa Canyon Road
Driveway: South Driveway, Opposite Nubia Street
Date: Thursday 11/1/2018
Count Type: Classification

	Entering					Exiting				
	Pass Veh	Large 2 Axle	3 Axle	4+ Axle	Total	Pass Veh	Large 2 Axle	3 Axle	4+ Axle	Total
0:00	0	0	0	0	0	0	0	0	0	0
0:15	0	0	0	0	0	0	0	0	0	0
0:30	0	0	0	0	0	0	0	0	0	0
0:45	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	0	0	0	0	0	0	0
1:15	0	0	0	0	0	0	0	0	0	0
1:30	0	0	0	0	0	0	0	0	0	0
1:45	0	0	0	0	0	0	0	0	0	0
2:00	0	0	0	0	0	0	0	0	0	0
2:15	0	0	0	0	0	0	0	0	0	0
2:30	0	0	0	0	0	0	0	0	0	0
2:45	0	0	0	0	0	0	0	0	0	0
3:00	0	0	0	0	0	0	0	0	0	0
3:15	0	0	0	0	0	0	0	0	0	0
3:30	0	0	0	0	0	0	0	0	0	0
3:45	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0
4:15	0	0	0	0	0	0	0	0	0	0
4:30	0	0	0	0	0	0	0	0	0	0
4:45	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0
5:15	0	0	0	0	0	0	0	0	0	0
5:30	0	0	0	0	0	0	0	0	0	0
5:45	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0
6:15	0	0	0	0	0	0	0	0	0	0
6:30	0	0	0	0	0	0	0	0	0	0
6:45	0	0	0	0	0	0	0	0	0	0
7:00	5	0	0	0	5	0	0	0	0	0
7:15	9	0	0	0	9	0	0	0	0	0
7:30	11	0	0	0	11	0	0	0	0	0
7:45	3	0	0	0	3	2	1	0	0	3
8:00	0	0	0	0	0	3	0	0	0	3
8:15	0	0	0	0	0	7	3	0	0	10
8:30	1	0	0	0	1	4	1	0	0	5
8:45	0	0	0	0	0	0	0	0	0	0
9:00	0	0	0	0	0	0	1	0	0	1
9:15	0	0	0	0	0	0	0	0	0	0
9:30	0	0	0	0	0	0	0	0	0	0
9:45	0	0	0	0	0	0	0	0	0	0
10:00	0	0	0	0	0	0	0	0	0	0
10:15	0	0	0	0	0	0	1	0	0	1
10:30	0	0	0	0	0	0	0	0	0	0
10:45	0	0	0	0	0	0	0	0	0	0
11:00	0	0	0	0	0	0	0	0	0	0
11:15	0	0	0	0	0	0	0	0	0	0
11:30	0	0	0	0	0	0	0	0	0	0
11:45	0	0	0	0	0	0	0	0	0	0
12:00	0	0	0	0	0	0	0	0	0	0
12:15	0	0	0	0	0	0	0	0	0	0
12:30	0	0	0	0	0	0	0	0	0	0
12:45	0	0	0	0	0	0	0	0	0	0
13:00	0	0	0	0	0	0	0	0	0	0
13:15	0	0	0	0	0	0	0	0	0	0
13:30	0	0	0	0	0	0	0	0	0	0
13:45	0	0	0	0	0	0	0	0	0	0
14:00	0	0	0	0	0	0	0	0	0	0
14:15	0	0	0	0	0	0	0	0	0	0
14:30	0	0	0	0	0	0	0	0	0	0
14:45	0	0	0	0	0	0	0	0	0	0
15:00	0	0	0	0	0	0	0	0	0	0
15:15	0	0	0	0	0	0	0	0	0	0
15:30	0	0	0	0	0	0	0	0	0	0
15:45	0	0	0	0	0	0	0	0	0	0
16:00	0	0	0	0	0	0	0	0	0	0
16:15	0	0	0	0	0	0	0	0	0	0
16:30	0	0	0	0	0	0	0	0	0	0
16:45	0	0	0	0	0	0	0	0	0	0
17:00	0	0	0	0	0	0	0	0	0	0
17:15	0	0	0	0	0	0	0	0	0	0
17:30	0	0	0	0	0	0	0	0	0	0
17:45	0	0	0	0	0	0	0	0	0	0
18:00	0	0	0	0	0	0	0	0	0	0
18:15	0	0	0	0	0	0	0	0	0	0
18:30	0	0	0	0	0	0	0	0	0	0
18:45	0	0	0	0	0	0	0	0	0	0
19:00	0	0	0	0	0	0	0	0	0	0
19:15	0	0	0	0	0	0	0	0	0	0
19:30	0	0	0	0	0	0	0	0	0	0
19:45	0	0	0	0	0	0	0	0	0	0
20:00	0	0	0	0	0	0	0	0	0	0
20:15	0	0	0	0	0	0	0	0	0	0
20:30	0	0	0	0	0	0	0	0	0	0
20:45	0	0	0	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0	0	0	0
21:15	0	0	0	0	0	0	0	0	0	0
21:30	0	0	0	0	0	0	0	0	0	0
21:45	0	0	0	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0	0	0	0
22:15	0	0	0	0	0	0	0	0	0	0
22:30	0	0	0	0	0	0	0	0	0	0
22:45	0	0	0	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0	0	0	0
23:15	0	0	0	0	0	0	0	0	0	0
23:30	0	0	0	0	0	0	0	0	0	0
23:45	0	0	0	0	0	0	0	0	0	0
TOTAL	**29**	**0**	**0**	**0**	**29**	**16**	**7**	**0**	**0**	**23**

APPENDIX D

LEVEL OF SERVICE WORKSHEETS

EXISTING

5010 Azusa Canyon Road

Vistro File: G:\...\AME.vistro
Report File: G:\...\amE.pdf

Scenario 1 Existing
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 Fwy SB Onramp at Live Oak Ave	Signalized	ICU 1	WB Thru	0.567	-	A
2	I-605 Fwy NB Ramps at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Right	1.253	164.7	F
3	Graham Access Rd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.643	-	B
4	Live Oak Ln at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Left	0.013	53.9	F
5	Rivergrade Rd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.644	-	B
6	Stewart Ave at Live Oak Ave	Signalized	ICU 1	WB Thru	0.820	-	D
7	Baldwin Park Blvd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.613	-	B
8	Arrow Hwy at Live Oak Ave	Signalized	ICU 1	WB Thru	0.667	-	B
9	Maine Ave at Arrow Hwy	Signalized	ICU 1	WB Thru	0.755	-	C
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	WB Thru	0.899	-	D
11	Azusa Canyon Rd at Sandstone St	Two-way stop	HCM 6th Edition	EB Left	0.032	13.4	B
12	Azusa Canyon Rd at Nubia St	Two-way stop	HCM 6th Edition	WB Left	0.012	25.9	D
13	4th St at Arrow Hwy	Signalized	ICU 1	WB Thru	0.693	-	B
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	WB Thru	0.896	-	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 Fwy SB Onramp at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.567

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	278	521	608	1306
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	278	521	608	1306
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	70	130	152	327
Total Analysis Volume [veh/h]	0	0	278	521	608	1306
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.09	0.00	0.38	0.41
Intersection LOS	A					
Intersection V/C	0.567					

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	164.7
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.253

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	126	0	0	117	0	70	0	0	361	0
Total Analysis Volume [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.57	0.00	0.00	1.25	0.00	0.00	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	14.19	0.00	0.00	164.71	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			B			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	3.64	0.00	0.00	20.41	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	91.02	0.00	0.00	510.28	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	14.19			164.71			0.00			0.00		
Approach LOS	B			F			A			A		
d_I, Intersection Delay [s/veh]	31.26											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 3: Graham Access Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.643

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	110	90	702	79	38	1336
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	110	90	702	79	38	1336
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	28	23	176	20	10	334
Total Analysis Volume [veh/h]	110	90	702	79	38	1336
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.13	0.22	0.05	0.02	0.42
Intersection LOS	B					
Intersection V/C	0.643					

Intersection Level Of Service Report
Intersection 4: Live Oak Ln at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	53.9
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.013

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	1	103	37	770	1277	31
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1	103	37	770	1277	31
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	26	9	193	319	8
Total Analysis Volume [veh/h]	1	103	37	770	1277	31
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.24	0.07	0.01	0.01	0.00
d_M, Delay for Movement [s/veh]	53.86	16.20	12.22	0.00	0.00	0.00
Movement LOS	F	C	B	A	A	A
95th-Percentile Queue Length [veh/ln]	0.04	0.94	0.22	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	1.01	23.52	5.54	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	16.56		0.56		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	0.98					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 5: Rivergrade Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.644

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	76	79	130	17	244	76	124	649	65	347	1097	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	76	79	130	17	244	76	124	649	65	347	1097	14
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	19	20	33	4	61	19	31	162	16	87	274	4
Total Analysis Volume [veh/h]	76	79	130	17	244	76	124	649	65	347	1097	14
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.05	0.08	0.01	0.08	0.05	0.08	0.20	0.04	0.22	0.34	0.01
Intersection LOS	B											
Intersection V/C	0.644											

Intersection Level Of Service Report
Intersection 6: Stewart Ave at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.820

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	256	84	28	12	33	68	13	644	30	37	1518	35
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	256	84	28	12	33	68	13	644	30	37	1518	35
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	64	21	7	3	8	17	3	161	8	9	380	9
Total Analysis Volume [veh/h]	256	84	28	12	33	68	13	644	30	37	1518	35
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.16	0.23	0.23	0.01	0.02	0.04	0.01	0.20	0.02	0.02	0.47	0.02
Intersection LOS	D											
Intersection V/C	0.820											

Intersection Level Of Service Report
Intersection 7: Baldwin Park Blvd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.613

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	373	210	612	72	141	1223
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	373	210	612	72	141	1223
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	93	53	153	18	35	306
Total Analysis Volume [veh/h]	373	210	612	72	141	1223
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.12	0.13	0.19	0.05	0.09	0.38
Intersection LOS	B					
Intersection V/C	0.613					

Intersection Level Of Service Report
Intersection 8: Arrow Hwy at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.667

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	306	56	102	663	1270	1458
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	306	56	102	663	1270	1458
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	77	14	26	166	318	0
Total Analysis Volume [veh/h]	306	56	102	663	1270	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Unsignalized
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.10	0.04	0.06	0.21	0.40	0.00
Intersection LOS	B					
Intersection V/C	0.667					

Intersection Level Of Service Report
Intersection 9: Maine Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.755

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	463	66	883	123	70	2374
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	463	66	883	123	70	2374
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	116	17	221	31	18	594
Total Analysis Volume [veh/h]	463	66	883	123	70	2374
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.14	0.04	0.28	0.08	0.04	0.49
Intersection LOS	C					
Intersection V/C	0.755					

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.899

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	708	4	125	10	4	8	5	806	97	91	1810	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	708	4	125	10	4	8	5	806	97	91	1810	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	177	1	31	3	1	2	1	202	24	23	453	2
Total Analysis Volume [veh/h]	708	4	125	10	4	8	5	806	97	91	1810	9
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.22	0.22	0.08	0.01	0.01	0.01	0.00	0.25	0.06	0.06	0.57	0.01
Intersection LOS	D											
Intersection V/C	0.899											

Intersection Level Of Service Report
Intersection 11: Azusa Canyon Rd at Sandstone St

Control Type:	Two-way stop	Delay (sec / veh):	13.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.032

Intersection Setup

Name						
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	3	830	171	5	14	7
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	3	830	171	5	14	7
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	208	43	1	4	2
Total Analysis Volume [veh/h]	3	830	171	5	14	7
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.01	0.00	0.00	0.03	0.01
d_M, Delay for Movement [s/veh]	7.55	0.00	0.00	0.00	13.43	9.01
Movement LOS	A	A	A	A	B	A
95th-Percentile Queue Length [veh/ln]	0.01	0.00	0.00	0.00	0.12	0.12
95th-Percentile Queue Length [ft/ln]	0.16	0.00	0.00	0.00	3.04	3.04
d_A, Approach Delay [s/veh]	0.03		0.00		11.96	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.27					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 12: Azusa Canyon Rd at Nubia St

Control Type:	Two-way stop	Delay (sec / veh):	25.9
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.012

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	62	808	23	5	149	17	21	0	54	2	0	2
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	62	808	23	5	149	17	21	0	54	2	0	2
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	16	202	6	1	37	4	5	0	14	1	0	1
Total Analysis Volume [veh/h]	62	808	23	5	149	17	21	0	54	2	0	2
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.04	0.01	0.00	0.01	0.00	0.00	0.06	0.00	0.06	0.01	0.00	0.00
d_M, Delay for Movement [s/veh]	7.64	0.00	0.00	9.47	0.00	0.00	16.93	23.83	9.47	25.93	23.38	11.29
Movement LOS	A	A	A	A	A	A	C	C	A	D	C	B
95th-Percentile Queue Length [veh/ln]	0.14	0.00	0.00	0.02	0.00	0.00	0.41	0.41	0.41	0.05	0.05	0.05
95th-Percentile Queue Length [ft/ln]	3.41	0.00	0.00	0.47	0.00	0.00	10.18	10.18	10.18	1.13	1.13	1.13
d_A, Approach Delay [s/veh]	0.53			0.28			11.55			18.61		
Approach LOS	A			A			B			C		
d_I, Intersection Delay [s/veh]	1.28											
Intersection LOS	D											

Intersection Level Of Service Report
Intersection 13: 4th St at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.693

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	101	2	29	6	2	5	21	874	142	93	1725	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	101	2	29	6	2	5	21	874	142	93	1725	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	25	1	7	2	1	1	5	219	36	23	431	2
Total Analysis Volume [veh/h]	101	2	29	6	2	5	21	874	142	93	1725	9
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.03	0.02	0.00	0.01	0.01	0.01	0.18	0.09	0.06	0.54	0.01
Intersection LOS	B											
Intersection V/C	0.693											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.896

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	170	641	66	96	510	465	356	530	59	68	1131	106
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	170	641	66	96	510	465	356	530	59	68	1131	106
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	43	160	17	24	128	116	89	133	15	17	283	27
Total Analysis Volume [veh/h]	170	641	66	96	510	465	356	530	59	68	1131	106
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.11	0.22	0.22	0.06	0.16	0.18	0.11	0.12	0.12	0.04	0.39	0.39
Intersection LOS	D											
Intersection V/C	0.896											

5010 Azusa Canyon Road

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Report File: G:\...\E AM (Int 15-16).pdf

Scenario 1 Existing
7/14/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	ICU 1	WB Thru	0.696	-	B
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	ICU 1	SB Thru	0.507	-	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.696

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	408	589	0	679	1019	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	408	589	0	679	1019	0
Peak Hour Factor	0.9630	0.9630	1.0000	0.9630	0.9630	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	106	0	0	176	265	0
Total Analysis Volume [veh/h]	424	0	0	705	1058	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.27	0.00	0.00	0.15	0.33	0.00
Intersection LOS	B					
Intersection V/C	0.696					

Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.507

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	999	0	0	1195	248	230
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	999	0	0	1195	248	230
Peak Hour Factor	0.9780	1.0000	1.0000	0.9780	0.9780	0.9780
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	255	0	0	305	63	59
Total Analysis Volume [veh/h]	1021	0	0	1222	254	235
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.21	0.00	0.00	0.25	0.08	0.15
Intersection LOS	A					
Intersection V/C	0.507					

5010 Azusa Canyon Road

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Report File: G:\...\pmE.pdf

Scenario 1 Existing
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 Fwy SB Onramp at Live Oak Ave	Signalized	ICU 1	EB Thru	0.813	-	D
2	I-605 Fwy NB Ramps at Live Oak Ave	Two-way stop	HCM 6th Edition	NB Right	1.262	161.1	F
3	Graham Access Rd at Live Oak Ave	Signalized	ICU 1	EB Thru	0.666	-	B
4	Live Oak Ln at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Left	0.062	64.0	F
5	Rivergrade Rd at Live Oak Ave	Signalized	ICU 1	EB Thru	1.018	-	F
6	Stewart Ave at Live Oak Ave	Signalized	ICU 1	EB Thru	0.909	-	E
7	Baldwin Park Blvd at Live Oak Ave	Signalized	ICU 1	EB Thru	0.836	-	D
8	Arrow Hwy at Live Oak Ave	Signalized	ICU 1	EB Thru	0.990	-	E
9	Maine Ave at Arrow Hwy	Signalized	ICU 1	EB Thru	0.972	-	E
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	EB Thru	0.994	-	E
11	Azusa Canyon Rd at Sandstone St	Two-way stop	HCM 6th Edition	EB Left	0.025	14.3	B
12	Azusa Canyon Rd at Nubia St	Two-way stop	HCM 6th Edition	EB Thru	0.000	20.6	C
13	4th St at Arrow Hwy	Signalized	ICU 1	EB Thru	0.667	-	B
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	EB Thru	0.850	-	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 Fwy SB Onramp at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.813

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	1183	1209	549	898
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	1183	1209	549	898
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	296	302	137	225
Total Analysis Volume [veh/h]	0	0	1183	1209	549	898
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.37	0.00	0.34	0.28
Intersection LOS	D					
Intersection V/C	0.813					

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	161.1
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.262

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	144	0	0	130	0	296	0	0	232	0
Total Analysis Volume [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	1.26	0.00	0.00	0.95	0.00	0.01	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	161.13	0.00	0.00	53.34	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			F			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	23.90	0.00	0.00	12.22	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	597.53	0.00	0.00	305.45	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	161.13			53.34			0.00			0.00		
Approach LOS	F			F			A			A		
d_I, Intersection Delay [s/veh]	37.54											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 3: Graham Access Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.666

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	10	10	1749	8	11	916
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	10	10	1749	8	11	916
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	3	437	2	3	229
Total Analysis Volume [veh/h]	10	10	1749	8	11	916
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.01	0.55	0.01	0.01	0.29
Intersection LOS	B					
Intersection V/C	0.666					

Intersection Level Of Service Report
Intersection 4: Live Oak Ln at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	64.0
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.062

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	4	34	39	1735	893	7
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	4	34	39	1735	893	7
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	9	10	434	223	2
Total Analysis Volume [veh/h]	4	34	39	1735	893	7
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.06	0.06	0.05	0.02	0.01	0.00
d_M, Delay for Movement [s/veh]	63.96	11.78	9.97	0.00	0.00	0.00
Movement LOS	F	B	A	A	A	A
95th-Percentile Queue Length [veh/ln]	0.19	0.19	0.16	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	4.80	4.79	4.03	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	17.27		0.22		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	0.39					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 5: Rivergrade Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.018

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	118	182	508	15	18	59	44	1701	30	95	715	22
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	118	182	508	15	18	59	44	1701	30	95	715	22
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	30	46	127	4	5	15	11	425	8	24	179	6
Total Analysis Volume [veh/h]	118	182	508	15	18	59	44	1701	30	95	715	22
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.11	0.32	0.01	0.01	0.04	0.03	0.53	0.02	0.06	0.22	0.01
Intersection LOS	F											
Intersection V/C	1.018											

Intersection Level Of Service Report
Intersection 6: Stewart Ave at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.909

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	53	29	17	134	181	14	31	2049	312	36	670	16
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	53	29	17	134	181	14	31	2049	312	36	670	16
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	13	7	4	34	45	4	8	512	78	9	168	4
Total Analysis Volume [veh/h]	53	29	17	134	181	14	31	2049	312	36	670	16
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.06	0.06	0.08	0.11	0.01	0.02	0.64	0.20	0.02	0.21	0.01
Intersection LOS	E											
Intersection V/C	0.909											

Intersection Level Of Service Report
Intersection 7: Baldwin Park Blvd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.836

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	96	131	1469	599	312	596
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	96	131	1469	599	312	596
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	24	33	367	150	78	149
Total Analysis Volume [veh/h]	96	131	1469	599	312	596
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.08	0.46	0.37	0.20	0.19
Intersection LOS	D					
Intersection V/C	0.836					

Intersection Level Of Service Report
Intersection 8: Arrow Hwy at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.990

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	1108	136	53	1616	796	449
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1108	136	53	1616	796	449
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	277	34	13	404	199	0
Total Analysis Volume [veh/h]	1108	136	53	1616	796	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Unsignalized
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.35	0.09	0.03	0.51	0.25	0.00
Intersection LOS	E					
Intersection V/C	0.990					

Intersection Level Of Service Report
Intersection 9: Maine Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.972

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	223	81	2398	341	72	1022
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	223	81	2398	341	72	1022
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	56	20	600	85	18	256
Total Analysis Volume [veh/h]	223	81	2398	341	72	1022
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.05	0.75	0.21	0.05	0.21
Intersection LOS	E					
Intersection V/C	0.972					

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.994

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	128	7	247	26	20	22	9	2000	299	141	995	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	128	7	247	26	20	22	9	2000	299	141	995	14
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	32	2	62	7	5	6	2	500	75	35	249	4
Total Analysis Volume [veh/h]	128	7	247	26	20	22	9	2000	299	141	995	14
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.04	0.04	0.15	0.02	0.03	0.03	0.01	0.63	0.19	0.09	0.31	0.01
Intersection LOS	E											
Intersection V/C	0.994											

Intersection Level Of Service Report
Intersection 11: Azusa Canyon Rd at Sandstone St

Control Type:	Two-way stop	Delay (sec / veh):	14.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.025

Intersection Setup

Name						
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	9	371	459	12	10	5
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	9	371	459	12	10	5
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	2	93	115	3	3	1
Total Analysis Volume [veh/h]	9	371	459	12	10	5
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.00	0.03	0.01
d_M, Delay for Movement [s/veh]	8.30	0.00	0.00	0.00	14.34	9.87
Movement LOS	A	A	A	A	B	A
95th-Percentile Queue Length [veh/ln]	0.02	0.00	0.00	0.00	0.10	0.10
95th-Percentile Queue Length [ft/ln]	0.62	0.00	0.00	0.00	2.45	2.45
d_A, Approach Delay [s/veh]	0.20		0.00		12.85	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.31					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 12: Azusa Canyon Rd at Nubia St

Control Type:	Two-way stop	Delay (sec / veh):	20.6
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.000

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	42	323	0	0	462	26	51	0	99	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	42	323	0	0	462	26	51	0	99	0	0	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	81	0	0	116	7	13	0	25	0	0	0
Total Analysis Volume [veh/h]	42	323	0	0	462	26	51	0	99	0	0	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.04	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.13	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	8.45	0.00	0.00	7.88	0.00	0.00	19.17	20.60	12.42	16.63	18.27	9.18
Movement LOS	A	A	A	A	A	A	C	C	B	C	C	A
95th-Percentile Queue Length [veh/ln]	0.12	0.00	0.00	0.00	0.00	0.00	1.19	1.19	1.19	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	3.02	0.00	0.00	0.00	0.00	0.00	29.67	29.67	29.67	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.97			0.00			14.71			14.69		
Approach LOS	A			A			B			B		
d_I, Intersection Delay [s/veh]	2.55											
Intersection LOS	C											

Intersection Level Of Service Report
Intersection 13: 4th St at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.667

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	161	2	46	8	6	21	8	2181	87	63	1000	6
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	161	2	46	8	6	21	8	2181	87	63	1000	6
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	40	1	12	2	2	5	2	545	22	16	250	2
Total Analysis Volume [veh/h]	161	2	46	8	6	21	8	2181	87	63	1000	6
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.05	0.03	0.01	0.02	0.02	0.01	0.45	0.05	0.04	0.31	0.00
Intersection LOS	B											
Intersection V/C	0.667											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.850

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	96	510	90	208	698	322	430	1658	120	99	588	70
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	96	510	90	208	698	322	430	1658	120	99	588	70
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	24	128	23	52	175	81	108	415	30	25	147	18
Total Analysis Volume [veh/h]	96	510	90	208	698	322	430	1658	120	99	588	70
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.06	0.19	0.19	0.13	0.22	0.07	0.13	0.37	0.37	0.06	0.21	0.21
Intersection LOS	D											
Intersection V/C	0.850											

5010 Azusa Canyon Road

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Report File: G:\...\E PM (Int 15-16).pdf

Scenario 1 Existing
7/14/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	ICU 1	EB Thru	0.514	-	A
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	ICU 1	SB Thru	0.558	-	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.514

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	259	241	0	1156	408	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	259	241	0	1156	408	0
Peak Hour Factor	0.9740	0.9740	1.0000	0.9740	0.9740	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	66	0	0	297	105	0
Total Analysis Volume [veh/h]	266	0	0	1187	419	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.17	0.00	0.00	0.25	0.13	0.00
Intersection LOS	A					
Intersection V/C	0.514					

Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.558

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	864	0	0	1501	217	208
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	864	0	0	1501	217	208
Peak Hour Factor	0.9720	1.0000	1.0000	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	222	0	0	386	56	53
Total Analysis Volume [veh/h]	889	0	0	1544	223	214
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.19	0.00	0.00	0.32	0.07	0.14
Intersection LOS	A					
Intersection V/C	0.558					

EXISTING PLUS PROJECT

5010 Azusa Canyon Road

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Report File: G:\...\amEP.pdf

Scenario 1 Existing Plus Project
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 Fwy SB Onramp at Live Oak Ave	Signalized	ICU 1	WB Thru	0.567	-	A
2	I-605 Fwy NB Ramps at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Right	1.253	164.7	F
3	Graham Access Rd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.643	-	B
4	Live Oak Ln at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Left	0.014	58.6	F
5	Rivergrade Rd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.663	-	B
6	Stewart Ave at Live Oak Ave	Signalized	ICU 1	WB Thru	0.820	-	D
7	Baldwin Park Blvd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.617	-	B
8	Arrow Hwy at Live Oak Ave	Signalized	ICU 1	WB Thru	0.678	-	B
9	Maine Ave at Arrow Hwy	Signalized	ICU 1	WB Thru	0.755	-	C
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	WB Thru	0.899	-	D
11	Azusa Canyon Rd at Sandstone St	Two-way stop	HCM 6th Edition	WB Left	0.008	32.3	D
12	Azusa Canyon Rd at Nubia St	Two-way stop	HCM 6th Edition	WB Left	0.015	31.5	D
13	4th St at Arrow Hwy	Signalized	ICU 1	WB Thru	0.706	-	C
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	WB Thru	0.920	-	E

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 Fwy SB Onramp at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.567

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	278	521	608	1306
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	278	521	608	1306
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	70	130	152	327
Total Analysis Volume [veh/h]	0	0	278	521	608	1306
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.09	0.00	0.38	0.41
Intersection LOS	A					
Intersection V/C	0.567					

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	164.7
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.253

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	63	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	567	0	0	468	0	278	0	0	1445	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	142	0	0	117	0	70	0	0	361	0
Total Analysis Volume [veh/h]	0	0	567	0	0	468	0	278	0	0	1445	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.64	0.00	0.00	1.25	0.00	0.00	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	15.86	0.00	0.00	164.71	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			C			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	4.71	0.00	0.00	20.41	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	117.85	0.00	0.00	510.28	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	15.86			164.71			0.00			0.00		
Approach LOS	C			F			A			A		
d_I, Intersection Delay [s/veh]	31.21											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 3: Graham Access Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.643

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	110	90	702	79	38	1336
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	63	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	110	90	765	79	38	1336
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	28	23	191	20	10	334
Total Analysis Volume [veh/h]	110	90	765	79	38	1336
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.13	0.24	0.05	0.02	0.42
Intersection LOS	B					
Intersection V/C	0.643					

Intersection Level Of Service Report
Intersection 4: Live Oak Ln at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	58.6
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.014

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	1	103	37	770	1277	31
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	63	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1	103	37	833	1277	31
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	26	9	208	319	8
Total Analysis Volume [veh/h]	1	103	37	833	1277	31
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.24	0.07	0.01	0.01	0.00
d_M, Delay for Movement [s/veh]	58.65	16.54	12.22	0.00	0.00	0.00
Movement LOS	F	C	B	A	A	A
95th-Percentile Queue Length [veh/ln]	1.01	1.01	0.22	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	25.27	25.27	5.54	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	16.95		0.52		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	0.97					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 5: Rivergrade Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.663

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	76	79	130	17	244	76	124	649	65	347	1097	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	63	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	76	79	130	17	244	76	124	712	65	347	1097	14
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	19	20	33	4	61	19	31	178	16	87	274	4
Total Analysis Volume [veh/h]	76	79	130	17	244	76	124	712	65	347	1097	14
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.05	0.08	0.01	0.08	0.05	0.08	0.22	0.04	0.22	0.34	0.01
Intersection LOS	B											
Intersection V/C	0.663											

Intersection Level Of Service Report
Intersection 6: Stewart Ave at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.820

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	256	84	28	12	33	68	13	644	30	37	1518	35
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	63	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	256	84	28	12	33	68	13	707	30	37	1518	35
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	64	21	7	3	8	17	3	177	8	9	380	9
Total Analysis Volume [veh/h]	256	84	28	12	33	68	13	707	30	37	1518	35
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.16	0.23	0.23	0.01	0.02	0.04	0.01	0.22	0.02	0.02	0.47	0.02
Intersection LOS	D											
Intersection V/C	0.820											

Intersection Level Of Service Report
Intersection 7: Baldwin Park Blvd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.617

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	373	210	612	72	141	1223
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	5	63	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	373	215	675	72	141	1223
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	93	54	169	18	35	306
Total Analysis Volume [veh/h]	373	215	675	72	141	1223
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.12	0.13	0.21	0.05	0.09	0.38
Intersection LOS	B					
Intersection V/C	0.617					

Intersection Level Of Service Report
Intersection 8: Arrow Hwy at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.678

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	306	56	102	663	1270	1458
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	33	0	0	68	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	339	56	102	731	1270	1458
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	85	14	26	183	318	0
Total Analysis Volume [veh/h]	339	56	102	731	1270	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Unsignalized
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.11	0.04	0.06	0.23	0.40	0.00
Intersection LOS	B					
Intersection V/C	0.678					

Intersection Level Of Service Report
Intersection 9: Maine Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.755

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	463	66	883	123	70	2374
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	101	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	463	66	984	123	70	2374
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	116	17	246	31	18	594
Total Analysis Volume [veh/h]	463	66	984	123	70	2374
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.14	0.04	0.31	0.08	0.04	0.49
Intersection LOS	C					
Intersection V/C	0.755					

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.899

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	708	4	125	10	4	8	5	806	97	91	1810	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	101	44	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	708	4	125	10	4	8	5	806	198	135	1810	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	177	1	31	3	1	2	1	202	50	34	453	2
Total Analysis Volume [veh/h]	708	4	125	10	4	8	5	806	198	135	1810	9
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.22	0.22	0.08	0.01	0.01	0.01	0.00	0.21	0.21	0.08	0.57	0.01
Intersection LOS	D											
Intersection V/C	0.899											

Intersection Level Of Service Report
Intersection 11: Azusa Canyon Rd at Sandstone St

Control Type:	Two-way stop	Delay (sec / veh):	32.3
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.008

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	3	830	0	0	171	5	14	0	7	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	7	96	49	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	8	1	10	9	0	0	0	0	1	0	15
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	3	838	8	106	229	5	14	0	7	1	0	15
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	210	2	27	57	1	4	0	2	0	0	4
Total Analysis Volume [veh/h]	3	838	8	106	229	5	14	0	7	1	0	15
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.01	0.00	0.13	0.00	0.00	0.06	0.00	0.01	0.01	0.00	0.03
d_M, Delay for Movement [s/veh]	7.68	0.00	0.00	10.19	0.00	0.00	22.39	31.26	9.84	32.34	30.61	11.41
Movement LOS	A	A	A	B	A	A	C	D	A	D	D	B
95th-Percentile Queue Length [veh/ln]	0.01	0.00	0.00	0.46	0.00	0.00	0.23	0.23	0.23	0.10	0.10	0.10
95th-Percentile Queue Length [ft/ln]	0.17	0.00	0.00	11.40	0.00	0.00	5.74	5.74	5.74	2.57	2.57	2.57
d_A, Approach Delay [s/veh]	0.03			3.18			18.21			12.72		
Approach LOS	A			A			C			B		
d_I, Intersection Delay [s/veh]	1.38											
Intersection LOS	D											

Intersection Level Of Service Report
Intersection 12: Azusa Canyon Rd at Nubia St

Control Type:	Two-way stop	Delay (sec / veh):	31.5
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.015

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	62	808	0	0	149	17	21	0	54	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	7	10	49	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	1	3	9	1	0	0	0	0	2	0	8
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	62	816	13	58	150	17	21	0	54	2	0	8
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	16	204	3	15	38	4	5	0	14	1	0	2
Total Analysis Volume [veh/h]	62	816	13	58	150	17	21	0	54	2	0	8
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.04	0.01	0.00	0.07	0.00	0.00	0.08	0.00	0.06	0.01	0.00	0.01
d_M, Delay for Movement [s/veh]	7.64	0.00	0.00	9.78	0.00	0.00	20.29	28.35	9.74	31.51	27.90	11.37
Movement LOS	A	A	A	A	A	A	C	D	A	D	D	B
95th-Percentile Queue Length [veh/ln]	0.14	0.00	0.00	0.23	0.00	0.00	0.48	0.48	0.48	0.09	0.09	0.09
95th-Percentile Queue Length [ft/ln]	3.41	0.00	0.00	5.76	0.00	0.00	11.94	11.94	11.94	2.16	2.16	2.16
d_A, Approach Delay [s/veh]	0.53			2.52			12.70			15.40		
Approach LOS	A			A			B			C		
d_I, Intersection Delay [s/veh]	1.79											
Intersection LOS	D											

Intersection Level Of Service Report
Intersection 13: 4th St at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.706

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	101	2	29	6	2	5	21	874	142	93	1725	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	44	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	101	2	29	6	2	5	21	874	142	93	1769	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	25	1	7	2	1	1	5	219	36	23	442	2
Total Analysis Volume [veh/h]	101	2	29	6	2	5	21	874	142	93	1769	9
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.03	0.02	0.00	0.01	0.01	0.01	0.18	0.09	0.06	0.55	0.01
Intersection LOS	C											
Intersection V/C	0.706											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.920

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	170	641	66	96	510	465	356	530	59	68	1131	106
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	35	0	0	0	0	9	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	170	641	66	96	510	500	356	530	59	68	1140	106
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	43	160	17	24	128	125	89	133	15	17	285	27
Total Analysis Volume [veh/h]	170	641	66	96	510	500	356	530	59	68	1140	106
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.11	0.22	0.22	0.06	0.16	0.20	0.11	0.12	0.12	0.04	0.39	0.39
Intersection LOS	E											
Intersection V/C	0.920											

5010 Azusa Canyon Road

Vistro File: G:\...\SH-AME.vistro
Report File: G:\...\EP AM (Int 15-16).pdf

Scenario 4 Existing Plus Project
7/14/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	ICU 1	WB Thru	0.717	-	C
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	ICU 1	SB Thru	0.518	-	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.717

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	408	589	0	679	1019	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	33	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	441	589	0	679	1019	0
Peak Hour Factor	0.9630	0.9630	1.0000	0.9630	0.9630	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	114	0	0	176	265	0
Total Analysis Volume [veh/h]	458	0	0	705	1058	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.29	0.00	0.00	0.15	0.33	0.00
Intersection LOS	C					
Intersection V/C	0.717					

Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.518

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	999	0	0	1195	248	230
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	35	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	999	0	0	1195	283	230
Peak Hour Factor	0.9780	1.0000	1.0000	0.9780	0.9780	0.9780
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	255	0	0	305	72	59
Total Analysis Volume [veh/h]	1021	0	0	1222	289	235
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.21	0.00	0.00	0.25	0.09	0.16
Intersection LOS	A					
Intersection V/C	0.518					

5010 Azusa Canyon Road

Vistro File: G:\...\AMEPi.vistro
Report File: G:\...\amEPi.pdf

Scenario 1 Existing Plus Project
12/5/2018

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
2	I-605 Fwy NB Ramps at Live Oak Ave	Signalized	ICU 1	WB Thru	0.729	-	C
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	WB Thru	0.899	-	D
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	WB Thru	0.887	-	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.729

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	63	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	567	0	0	468	0	278	0	0	1445	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	142	0	0	0	0	70	0	0	361	0
Total Analysis Volume [veh/h]	0	0	567	0	0	0	0	278	0	0	1445	0
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	0	2	0	0	6	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.45	0.00
Intersection LOS	C											
Intersection V/C	0.729											

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.899

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	708	4	125	10	4	8	5	806	97	91	1810	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	101	44	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	708	4	125	10	4	8	5	806	198	135	1810	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	177	1	31	3	1	2	1	202	50	34	453	2
Total Analysis Volume [veh/h]	708	4	125	10	4	8	5	806	198	135	1810	9
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.22	0.22	0.08	0.01	0.01	0.01	0.00	0.21	0.21	0.08	0.57	0.01
Intersection LOS	D											
Intersection V/C	0.899											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.887

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	170	641	66	96	510	465	356	530	59	68	1131	106
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	35	0	0	0	0	9	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	170	641	66	96	510	500	356	530	59	68	1140	106
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	43	160	17	24	128	125	89	133	15	17	285	27
Total Analysis Volume [veh/h]	170	641	66	96	510	500	356	530	59	68	1140	106
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.11	0.22	0.22	0.06	0.16	0.20	0.11	0.12	0.12	0.04	0.36	0.07
Intersection LOS	D											
Intersection V/C	0.887											

5010 Azusa Canyon Road

Vistro File: G:\...\PMEP.vistro
Report File: G:\...\pmEP.pdf

Scenario 1 Existing Plus Project
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 Fwy SB Onramp at Live Oak Ave	Signalized	ICU 1	WB Left	0.845	-	D
2	I-605 Fwy NB Ramps at Live Oak Ave	Two-way stop	HCM 6th Edition	NB Right	1.266	162.9	F
3	Graham Access Rd at Live Oak Ave	Signalized	ICU 1	EB Thru	0.667	-	B
4	Live Oak Ln at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Left	0.067	67.0	F
5	Rivergrade Rd at Live Oak Ave	Signalized	ICU 1	EB Thru	1.018	-	F
6	Stewart Ave at Live Oak Ave	Signalized	ICU 1	EB Thru	0.910	-	E
7	Baldwin Park Blvd at Live Oak Ave	Signalized	ICU 1	EB Thru	0.838	-	D
8	Arrow Hwy at Live Oak Ave	Signalized	ICU 1	EB Thru	0.990	-	E
9	Maine Ave at Arrow Hwy	Signalized	ICU 1	EB Thru	0.972	-	E
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	EB Thru	1.016	-	F
11	Azusa Canyon Rd at Sandstone St	Two-way stop	HCM 6th Edition	WB Thru	0.000	19.8	C
12	Azusa Canyon Rd at Nubia St	Two-way stop	HCM 6th Edition	EB Thru	0.000	20.9	C
13	4th St at Arrow Hwy	Signalized	ICU 1	EB Thru	0.674	-	B
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	EB Right	0.851	-	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 Fwy SB Onramp at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.845

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	1183	1209	549	898
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	52	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	1183	1209	601	898
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	296	302	150	225
Total Analysis Volume [veh/h]	0	0	1183	1209	601	898
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.37	0.00	0.38	0.28
Intersection LOS	D					
Intersection V/C	0.845					

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	162.9
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.266

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	2	0	0	0	0	0	0	0	52	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	576	0	0	521	0	1183	0	0	978	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	144	0	0	130	0	296	0	0	245	0
Total Analysis Volume [veh/h]	0	0	576	0	0	521	0	1183	0	0	978	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	1.27	0.00	0.00	0.98	0.00	0.01	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	162.87	0.00	0.00	62.81	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			F			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	24.11	0.00	0.00	13.41	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	602.64	0.00	0.00	335.34	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	162.87			62.81			0.00			0.00		
Approach LOS	F			F			A			A		
d_I, Intersection Delay [s/veh]	38.84											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 3: Graham Access Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.667

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	10	10	1749	8	11	916
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	2	0	0	52
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	10	10	1751	8	11	968
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	3	438	2	3	242
Total Analysis Volume [veh/h]	10	10	1751	8	11	968
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.01	0.55	0.01	0.01	0.30
Intersection LOS	B					
Intersection V/C	0.667					

Intersection Level Of Service Report
Intersection 4: Live Oak Ln at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	67.0
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.067

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	4	34	39	1735	893	7
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	2	52	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	4	34	39	1737	945	7
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	9	10	434	236	2
Total Analysis Volume [veh/h]	4	34	39	1737	945	7
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.06	0.05	0.02	0.01	0.00
d_M, Delay for Movement [s/veh]	67.05	13.44	10.21	0.00	0.00	0.00
Movement LOS	F	B	B	A	A	A
95th-Percentile Queue Length [veh/ln]	0.44	0.44	0.17	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	11.00	11.00	4.23	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	19.08		0.22		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	0.41					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 5: Rivergrade Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.018

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	118	182	508	15	18	59	44	1701	30	95	715	22
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	2	0	0	52	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	118	182	508	15	18	59	44	1703	30	95	767	22
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	30	46	127	4	5	15	11	426	8	24	192	6
Total Analysis Volume [veh/h]	118	182	508	15	18	59	44	1703	30	95	767	22
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.11	0.32	0.01	0.01	0.04	0.03	0.53	0.02	0.06	0.24	0.01
Intersection LOS	F											
Intersection V/C	1.018											

Intersection Level Of Service Report
Intersection 6: Stewart Ave at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.910

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	53	29	17	134	181	14	31	2049	312	36	670	16
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	2	0	0	52	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	53	29	17	134	181	14	31	2051	312	36	722	16
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	13	7	4	34	45	4	8	513	78	9	181	4
Total Analysis Volume [veh/h]	53	29	17	134	181	14	31	2051	312	36	722	16
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.06	0.06	0.08	0.11	0.01	0.02	0.64	0.20	0.02	0.23	0.01
Intersection LOS	E											
Intersection V/C	0.910											

Intersection Level Of Service Report
Intersection 7: Baldwin Park Blvd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.838

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	96	131	1469	599	312	596
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	2	0	3	52
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	96	131	1471	599	315	648
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	24	33	368	150	79	162
Total Analysis Volume [veh/h]	96	131	1471	599	315	648
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.08	0.46	0.37	0.20	0.20
Intersection LOS	D					
Intersection V/C	0.838					

Intersection Level Of Service Report
Intersection 8: Arrow Hwy at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.990

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	1108	136	53	1616	796	449
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	2	55	26
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1108	136	53	1618	851	475
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	277	34	13	405	213	0
Total Analysis Volume [veh/h]	1108	136	53	1618	851	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Unsignalized
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.35	0.09	0.03	0.51	0.27	0.00
Intersection LOS	E					
Intersection V/C	0.990					

Intersection Level Of Service Report
Intersection 9: Maine Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.972

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	223	81	2398	341	72	1022
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	2	0	0	81
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	223	81	2400	341	72	1103
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	56	20	600	85	18	276
Total Analysis Volume [veh/h]	223	81	2400	341	72	1103
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.05	0.75	0.21	0.05	0.23
Intersection LOS	E					
Intersection V/C	0.972					

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.016

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	128	7	247	26	20	22	9	2000	299	141	995	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	81	0	35	0	0	0	0	0	2	1	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	209	7	282	26	20	22	9	2000	301	142	995	14
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	52	2	71	7	5	6	2	500	75	36	249	4
Total Analysis Volume [veh/h]	209	7	282	26	20	22	9	2000	301	142	995	14
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.07	0.18	0.02	0.03	0.03	0.01	0.63	0.19	0.09	0.31	0.01
Intersection LOS	F											
Intersection V/C	1.016											

Intersection Level Of Service Report
Intersection 11: Azusa Canyon Rd at Sandstone St

Control Type:	Two-way stop	Delay (sec / veh):	19.8
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.000

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	9	371	0	0	459	12	10	0	5	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	37	0	3	0	0	0	0	0	5	0	79
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	14	1	12	8	0	0	0	0	2	0	13
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	9	422	1	15	467	12	10	0	5	7	0	92
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	2	106	0	4	117	3	3	0	1	2	0	23
Total Analysis Volume [veh/h]	9	422	1	15	467	12	10	0	5	7	0	92
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.01	0.00	0.00	0.04	0.00	0.01	0.02	0.00	0.11
d_M, Delay for Movement [s/veh]	8.32	0.00	0.00	8.18	0.00	0.00	18.54	19.26	10.11	17.03	19.81	10.29
Movement LOS	A	A	A	A	A	A	C	C	B	C	C	B
95th-Percentile Queue Length [veh/ln]	0.02	0.00	0.00	0.04	0.00	0.00	0.13	0.13	0.13	0.47	0.47	0.47
95th-Percentile Queue Length [ft/ln]	0.62	0.00	0.00	0.99	0.00	0.00	3.34	3.34	3.34	11.82	11.82	11.82
d_A, Approach Delay [s/veh]	0.17			0.25			15.73			10.76		
Approach LOS	A			A			C			B		
d_I, Intersection Delay [s/veh]	1.44											
Intersection LOS	C											

Intersection Level Of Service Report
Intersection 12: Azusa Canyon Rd at Nubia St

Control Type:	Two-way stop	Delay (sec / veh):	20.9
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.000

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	42	323	0	0	462	26	51	0	99	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	5	0	0	0	0	8	0	37
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	42	323	0	0	467	26	51	0	99	8	0	37
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	81	0	0	117	7	13	0	25	2	0	9
Total Analysis Volume [veh/h]	42	323	0	0	467	26	51	0	99	8	0	37
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.04	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.13	0.03	0.00	0.04
d_M, Delay for Movement [s/veh]	8.46	0.00	0.00	7.88	0.00	0.00	20.00	20.90	12.65	17.10	18.77	9.59
Movement LOS	A	A	A	A	A	A	C	C	B	C	C	A
95th-Percentile Queue Length [veh/ln]	0.12	0.00	0.00	0.00	0.00	0.00	1.24	1.24	1.24	0.22	0.22	0.22
95th-Percentile Queue Length [ft/ln]	3.03	0.00	0.00	0.00	0.00	0.00	30.94	30.94	30.94	5.54	5.54	5.54
d_A, Approach Delay [s/veh]	0.97			0.00			15.15			10.92		
Approach LOS	A			A			C			B		
d_I, Intersection Delay [s/veh]	2.96											
Intersection LOS	C											

Intersection Level Of Service Report
Intersection 13: 4th St at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.674

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	161	2	46	8	6	21	8	2181	87	63	1000	6
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	35	0	0	1	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	161	2	46	8	6	21	8	2216	87	63	1001	6
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	40	1	12	2	2	5	2	554	22	16	250	2
Total Analysis Volume [veh/h]	161	2	46	8	6	21	8	2216	87	63	1001	6
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.05	0.03	0.01	0.02	0.02	0.01	0.46	0.05	0.04	0.31	0.00
Intersection LOS	B											
Intersection V/C	0.674											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.851

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	96	510	90	208	698	322	430	1658	120	99	588	70
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	1	28	7	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	96	510	90	208	698	323	458	1665	120	99	588	70
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	24	128	23	52	175	81	115	416	30	25	147	18
Total Analysis Volume [veh/h]	96	510	90	208	698	323	458	1665	120	99	588	70
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.06	0.19	0.19	0.13	0.22	0.06	0.14	0.37	0.37	0.06	0.21	0.21
Intersection LOS	D											
Intersection V/C	0.851											

5010 Azusa Canyon Road

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Report File: G:\...\EP PM (Int 15-16).pdf

Scenario 4 Existing Plus Project
7/14/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	ICU 1	EB Thru	0.514	-	A
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	ICU 1	SB Thru	0.559	-	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.514

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	259	241	0	1156	408	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	259	241	0	1156	408	0
Peak Hour Factor	0.9740	0.9740	1.0000	0.9740	0.9740	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	66	0	0	297	105	0
Total Analysis Volume [veh/h]	266	0	0	1187	419	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.17	0.00	0.00	0.25	0.13	0.00
Intersection LOS	A					
Intersection V/C	0.514					

Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.559

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	864	0	0	1501	217	208
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	1	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	864	0	0	1501	218	208
Peak Hour Factor	0.9720	1.0000	1.0000	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	222	0	0	386	56	53
Total Analysis Volume [veh/h]	889	0	0	1544	224	214
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.19	0.00	0.00	0.32	0.07	0.14
Intersection LOS	A					
Intersection V/C	0.559					

5010 Azusa Canyon Road

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Report File: G:\...\pmEPi.pdf

Scenario 1 Existing Plus Project
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
2	I-605 Fwy NB Ramps at Live Oak Ave	Signalized	ICU 1	EB Thru	0.633	-	B
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	EB Thru	0.871	-	D
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	EB Right	0.851	-	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.633

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	2	0	0	0	0	0	0	0	52	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	576	0	0	521	0	1183	0	0	978	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	0	0	130	0	296	0	0	245	0
Total Analysis Volume [veh/h]	0	0	0	0	0	521	0	1183	0	0	978	0
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	0	2	0	0	6	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.37	0.00	0.00	0.31	0.00
Intersection LOS	B											
Intersection V/C	0.633											

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.871

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	128	7	247	26	20	22	9	2000	299	141	995	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	81	0	35	0	0	0	0	0	2	1	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	209	7	282	26	20	22	9	2000	301	142	995	14
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	52	2	71	7	5	6	2	500	75	36	249	4
Total Analysis Volume [veh/h]	209	7	282	26	20	22	9	2000	301	142	995	14
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.07	0.18	0.02	0.03	0.03	0.01	0.48	0.48	0.09	0.31	0.01
Intersection LOS	D											
Intersection V/C	0.871											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.851

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	96	510	90	208	698	322	430	1658	120	99	588	70
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	1	28	7	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	96	510	90	208	698	323	458	1665	120	99	588	70
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	24	128	23	52	175	81	115	416	30	25	147	18
Total Analysis Volume [veh/h]	96	510	90	208	698	323	458	1665	120	99	588	70
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.06	0.19	0.19	0.13	0.22	0.06	0.14	0.37	0.37	0.06	0.18	0.04
Intersection LOS	D											
Intersection V/C	0.851											

FUTURE BASELINE

5010 Azusa Canyon Road

Vistro File: G:\...\AME.vistro
Report File: G:\...\amOY.pdf

Scenario 2 Future Baseline
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 Fwy SB Onramp at Live Oak Ave	Signalized	ICU 1	WB Thru	0.576	-	A
2	I-605 Fwy NB Ramps at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Right	1.305	186.1	F
3	Graham Access Rd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.653	-	B
4	Live Oak Ln at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Left	0.014	56.8	F
5	Rivergrade Rd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.655	-	B
6	Stewart Ave at Live Oak Ave	Signalized	ICU 1	WB Thru	0.834	-	D
7	Baldwin Park Blvd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.623	-	B
8	Arrow Hwy at Live Oak Ave	Signalized	ICU 1	WB Thru	0.678	-	B
9	Maine Ave at Arrow Hwy	Signalized	ICU 1	WB Thru	0.768	-	C
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	WB Thru	0.914	-	E
11	Azusa Canyon Rd at Sandstone St	Two-way stop	HCM 6th Edition	EB Left	0.032	13.6	B
12	Azusa Canyon Rd at Nubia St	Two-way stop	HCM 6th Edition	WB Left	0.012	26.7	D
13	4th St at Arrow Hwy	Signalized	ICU 1	WB Thru	0.704	-	C
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	WB Thru	0.911	-	E

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 Fwy SB Onramp at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.576

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	278	521	608	1306
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	284	531	620	1332
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	71	133	155	333
Total Analysis Volume [veh/h]	0	0	284	531	620	1332
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.09	0.00	0.39	0.42
Intersection LOS	A					
Intersection V/C	0.576					

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	186.1
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.305

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	514	0	0	477	0	284	0	0	1474	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	129	0	0	119	0	71	0	0	369	0
Total Analysis Volume [veh/h]	0	0	514	0	0	477	0	284	0	0	1474	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.58	0.00	0.00	1.31	0.00	0.00	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	14.51	0.00	0.00	186.07	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			B			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	3.83	0.00	0.00	22.06	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	95.69	0.00	0.00	551.44	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	14.51			186.07			0.00			0.00		
Approach LOS	B			F			A			A		
d_I, Intersection Delay [s/veh]	35.00											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 3: Graham Access Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.653

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	110	90	702	79	38	1336
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	112	92	716	81	39	1363
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	28	23	179	20	10	341
Total Analysis Volume [veh/h]	112	92	716	81	39	1363
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.13	0.22	0.05	0.02	0.43
Intersection LOS	B					
Intersection V/C	0.653					

Intersection Level Of Service Report
Intersection 4: Live Oak Ln at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	56.8
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.014

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	1	103	37	770	1277	31
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1	105	38	785	1303	32
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	26	10	196	326	8
Total Analysis Volume [veh/h]	1	105	38	785	1303	32
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.25	0.07	0.01	0.01	0.00
d_M, Delay for Movement [s/veh]	56.84	16.56	12.42	0.00	0.00	0.00
Movement LOS	F	C	B	A	A	A
95th-Percentile Queue Length [veh/ln]	0.04	0.99	0.23	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	1.07	24.72	5.85	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	16.94		0.57		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	1.00					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 5: Rivergrade Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.655

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	76	79	130	17	244	76	124	649	65	347	1097	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	78	81	133	17	249	78	126	662	66	354	1119	14
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	20	20	33	4	62	20	32	166	17	89	280	4
Total Analysis Volume [veh/h]	78	81	133	17	249	78	126	662	66	354	1119	14
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.05	0.08	0.01	0.08	0.05	0.08	0.21	0.04	0.22	0.35	0.01
Intersection LOS	B											
Intersection V/C	0.655											

Intersection Level Of Service Report
Intersection 6: Stewart Ave at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.834

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	256	84	28	12	33	68	13	644	30	37	1518	35
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	261	86	29	12	34	69	13	657	31	38	1548	36
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	65	22	7	3	9	17	3	164	8	10	387	9
Total Analysis Volume [veh/h]	261	86	29	12	34	69	13	657	31	38	1548	36
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.16	0.24	0.24	0.01	0.02	0.04	0.01	0.21	0.02	0.02	0.48	0.02
Intersection LOS	D											
Intersection V/C	0.834											

Intersection Level Of Service Report
Intersection 7: Baldwin Park Blvd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.623

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	373	210	612	72	141	1223
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	380	214	624	73	144	1247
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	95	54	156	18	36	312
Total Analysis Volume [veh/h]	380	214	624	73	144	1247
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.12	0.13	0.20	0.05	0.09	0.39
Intersection LOS	B					
Intersection V/C	0.623					

Intersection Level Of Service Report
Intersection 8: Arrow Hwy at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.678

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	306	56	102	663	1270	1458
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	312	57	104	676	1295	1487
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	78	14	26	169	324	0
Total Analysis Volume [veh/h]	312	57	104	676	1295	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Unsignalized
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.10	0.04	0.07	0.21	0.40	0.00
Intersection LOS	B					
Intersection V/C	0.678					

Intersection Level Of Service Report
Intersection 9: Maine Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.768

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	463	66	883	123	70	2374
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	472	67	901	125	71	2421
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	118	17	225	31	18	605
Total Analysis Volume [veh/h]	472	67	901	125	71	2421
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.15	0.04	0.28	0.08	0.04	0.50
Intersection LOS	C					
Intersection V/C	0.768					

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.914

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	708	4	125	10	4	8	5	806	97	91	1810	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	722	4	128	10	4	8	5	822	99	93	1846	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	181	1	32	3	1	2	1	206	25	23	462	2
Total Analysis Volume [veh/h]	722	4	128	10	4	8	5	822	99	93	1846	9
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.23	0.23	0.08	0.01	0.01	0.01	0.00	0.26	0.06	0.06	0.58	0.01
Intersection LOS	E											
Intersection V/C	0.914											

Intersection Level Of Service Report
Intersection 11: Azusa Canyon Rd at Sandstone St

Control Type:	Two-way stop	Delay (sec / veh):	13.6
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.032

Intersection Setup

Name						
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	3	830	171	5	14	7
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	3	847	174	5	14	7
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	212	44	1	4	2
Total Analysis Volume [veh/h]	3	847	174	5	14	7
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.01	0.00	0.00	0.03	0.01
d_M, Delay for Movement [s/veh]	7.56	0.00	0.00	0.00	13.58	9.03
Movement LOS	A	A	A	A	B	A
95th-Percentile Queue Length [veh/ln]	0.01	0.00	0.00	0.00	0.12	0.12
95th-Percentile Queue Length [ft/ln]	0.16	0.00	0.00	0.00	3.08	3.08
d_A, Approach Delay [s/veh]	0.03		0.00		12.06	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.26					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 12: Azusa Canyon Rd at Nubia St

Control Type:	Two-way stop	Delay (sec / veh):	26.7
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.012

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	62	808	23	5	149	17	21	0	54	2	0	2
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	63	824	23	5	152	17	21	0	55	2	0	2
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	16	206	6	1	38	4	5	0	14	1	0	1
Total Analysis Volume [veh/h]	63	824	23	5	152	17	21	0	55	2	0	2
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.04	0.01	0.00	0.01	0.00	0.00	0.07	0.00	0.06	0.01	0.00	0.00
d_M, Delay for Movement [s/veh]	7.65	0.00	0.00	9.53	0.00	0.00	17.20	24.39	9.50	26.67	23.93	11.37
Movement LOS	A	A	A	A	A	A	C	C	A	D	C	B
95th-Percentile Queue Length [veh/ln]	0.14	0.00	0.00	0.02	0.00	0.00	0.42	0.42	0.42	0.05	0.05	0.05
95th-Percentile Queue Length [ft/ln]	3.48	0.00	0.00	0.47	0.00	0.00	10.43	10.43	10.43	1.17	1.17	1.17
d_A, Approach Delay [s/veh]	0.53			0.27			11.63			19.02		
Approach LOS	A			A			B			C		
d_I, Intersection Delay [s/veh]	1.28											
Intersection LOS	D											

Intersection Level Of Service Report
Intersection 13: 4th St at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.704

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	101	2	29	6	2	5	21	874	142	93	1725	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	103	2	30	6	2	5	21	891	145	95	1760	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	1	8	2	1	1	5	223	36	24	440	2
Total Analysis Volume [veh/h]	103	2	30	6	2	5	21	891	145	95	1760	9
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.03	0.02	0.00	0.01	0.01	0.01	0.19	0.09	0.06	0.55	0.01
Intersection LOS	C											
Intersection V/C	0.704											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.911

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	170	641	66	96	510	465	356	530	59	68	1131	106
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	173	654	67	98	520	474	363	541	60	69	1154	108
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	43	164	17	25	130	119	91	135	15	17	289	27
Total Analysis Volume [veh/h]	173	654	67	98	520	474	363	541	60	69	1154	108
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.11	0.23	0.23	0.06	0.16	0.18	0.11	0.13	0.13	0.04	0.39	0.39
Intersection LOS	E											
Intersection V/C	0.911											

5010 Azusa Canyon Road

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Report File: G:\...\FB AM (Int 15-16).pdf

Scenario 2 Future Baseline
7/14/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	ICU 1	WB Thru	0.707	-	C
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	ICU 1	SB Thru	0.516	-	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.707

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	408	589	0	679	1019	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	416	601	0	693	1039	0
Peak Hour Factor	0.9630	0.9630	1.0000	0.9630	0.9630	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	108	0	0	180	270	0
Total Analysis Volume [veh/h]	432	0	0	720	1079	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.27	0.00	0.00	0.15	0.34	0.00
Intersection LOS	C					
Intersection V/C	0.707					

Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.516

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	999	0	0	1195	248	230
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.02	1.00	1.00	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1019	0	0	1219	253	235
Peak Hour Factor	0.9780	1.0000	1.0000	0.9780	0.9780	0.9780
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	260	0	0	312	65	60
Total Analysis Volume [veh/h]	1042	0	0	1246	259	240
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.22	0.00	0.00	0.26	0.08	0.16
Intersection LOS	A					
Intersection V/C	0.516					

5010 Azusa Canyon Road

Vistro File: G:\...\PME.vistro
Report File: G:\...\pmOY.pdf

Scenario 2 Future Baseline
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 Fwy SB Onramp at Live Oak Ave	Signalized	ICU 1	EB Thru	0.827	-	D
2	I-605 Fwy NB Ramps at Live Oak Ave	Two-way stop	HCM 6th Edition	NB Right	1.310	180.7	F
3	Graham Access Rd at Live Oak Ave	Signalized	ICU 1	EB Thru	0.677	-	B
4	Live Oak Ln at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Left	0.065	67.9	F
5	Rivergrade Rd at Live Oak Ave	Signalized	ICU 1	EB Thru	1.036	-	F
6	Stewart Ave at Live Oak Ave	Signalized	ICU 1	EB Thru	0.926	-	E
7	Baldwin Park Blvd at Live Oak Ave	Signalized	ICU 1	EB Thru	0.851	-	D
8	Arrow Hwy at Live Oak Ave	Signalized	ICU 1	EB Thru	1.007	-	F
9	Maine Ave at Arrow Hwy	Signalized	ICU 1	EB Thru	0.989	-	E
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	EB Thru	1.011	-	F
11	Azusa Canyon Rd at Sandstone St	Two-way stop	HCM 6th Edition	EB Left	0.026	14.5	B
12	Azusa Canyon Rd at Nubia St	Two-way stop	HCM 6th Edition	EB Thru	0.000	21.1	C
13	4th St at Arrow Hwy	Signalized	ICU 1	EB Thru	0.677	-	B
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	EB Thru	0.865	-	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 Fwy SB Onramp at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.827

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	1183	1209	549	898
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	1207	1233	560	916
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	302	308	140	229
Total Analysis Volume [veh/h]	0	0	1207	1233	560	916
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.38	0.00	0.35	0.29
Intersection LOS	D					
Intersection V/C	0.827					

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	180.7
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.310

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	585	0	0	531	0	1207	0	0	945	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	146	0	0	133	0	302	0	0	236	0
Total Analysis Volume [veh/h]	0	0	585	0	0	531	0	1207	0	0	945	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	1.31	0.00	0.00	0.98	0.00	0.01	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	180.68	0.00	0.00	60.69	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			F			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	25.79	0.00	0.00	13.36	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	644.76	0.00	0.00	333.89	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	180.68			60.69			0.00			0.00		
Approach LOS	F			F			A			A		
d_I, Intersection Delay [s/veh]	42.20											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 3: Graham Access Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.677

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	10	10	1749	8	11	916
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	10	10	1784	8	11	934
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	3	446	2	3	234
Total Analysis Volume [veh/h]	10	10	1784	8	11	934
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.01	0.56	0.01	0.01	0.29
Intersection LOS	B					
Intersection V/C	0.677					

Intersection Level Of Service Report
Intersection 4: Live Oak Ln at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	67.9
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.065

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	4	34	39	1735	893	7
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	4	35	40	1770	911	7
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	9	10	443	228	2
Total Analysis Volume [veh/h]	4	35	40	1770	911	7
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.06	0.05	0.02	0.01	0.00
d_M, Delay for Movement [s/veh]	67.86	11.89	10.06	0.00	0.00	0.00
Movement LOS	F	B	B	A	A	A
95th-Percentile Queue Length [veh/ln]	0.20	0.20	0.17	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	5.10	5.01	4.21	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	17.63		0.22		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	0.39					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 5: Rivergrade Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.036

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	118	182	508	15	18	59	44	1701	30	95	715	22
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	120	186	518	15	18	60	45	1735	31	97	729	22
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	30	47	130	4	5	15	11	434	8	24	182	6
Total Analysis Volume [veh/h]	120	186	518	15	18	60	45	1735	31	97	729	22
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.08	0.12	0.32	0.01	0.01	0.04	0.03	0.54	0.02	0.06	0.23	0.01
Intersection LOS	F											
Intersection V/C	1.036											

Intersection Level Of Service Report
Intersection 6: Stewart Ave at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.926

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	53	29	17	134	181	14	31	2049	312	36	670	16
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	54	30	17	137	185	14	32	2090	318	37	683	16
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	14	8	4	34	46	4	8	523	80	9	171	4
Total Analysis Volume [veh/h]	54	30	17	137	185	14	32	2090	318	37	683	16
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.06	0.06	0.09	0.12	0.01	0.02	0.65	0.20	0.02	0.21	0.01
Intersection LOS	E											
Intersection V/C	0.926											

Intersection Level Of Service Report
Intersection 7: Baldwin Park Blvd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.851

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	96	131	1469	599	312	596
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	98	134	1498	611	318	608
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	25	34	375	153	80	152
Total Analysis Volume [veh/h]	98	134	1498	611	318	608
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.08	0.47	0.38	0.20	0.19
Intersection LOS	D					
Intersection V/C	0.851					

Intersection Level Of Service Report
Intersection 8: Arrow Hwy at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.007

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	1108	136	53	1616	796	449
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1130	139	54	1648	812	458
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	283	35	14	412	203	0
Total Analysis Volume [veh/h]	1130	139	54	1648	812	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Unsignalized
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.35	0.09	0.03	0.52	0.25	0.00
Intersection LOS	F					
Intersection V/C	1.007					

Intersection Level Of Service Report
Intersection 9: Maine Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.989

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	223	81	2398	341	72	1022
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	227	83	2446	348	73	1042
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	57	21	612	87	18	261
Total Analysis Volume [veh/h]	227	83	2446	348	73	1042
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.05	0.76	0.22	0.05	0.22
Intersection LOS	E					
Intersection V/C	0.989					

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.011

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	128	7	247	26	20	22	9	2000	299	141	995	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	131	7	252	27	20	22	9	2040	305	144	1015	14
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	33	2	63	7	5	6	2	510	76	36	254	4
Total Analysis Volume [veh/h]	131	7	252	27	20	22	9	2040	305	144	1015	14
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.04	0.04	0.16	0.02	0.03	0.03	0.01	0.64	0.19	0.09	0.32	0.01
Intersection LOS	F											
Intersection V/C	1.011											

Intersection Level Of Service Report
Intersection 11: Azusa Canyon Rd at Sandstone St

Control Type:	Two-way stop	Delay (sec / veh):	14.5
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.026

Intersection Setup

Name						
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	9	371	459	12	10	5
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	9	378	468	12	10	5
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	2	95	117	3	3	1
Total Analysis Volume [veh/h]	9	378	468	12	10	5
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.00	0.03	0.01
d_M, Delay for Movement [s/veh]	8.32	0.00	0.00	0.00	14.52	9.91
Movement LOS	A	A	A	A	B	A
95th-Percentile Queue Length [veh/ln]	0.02	0.00	0.00	0.00	0.10	0.10
95th-Percentile Queue Length [ft/ln]	0.62	0.00	0.00	0.00	2.49	2.49
d_A, Approach Delay [s/veh]	0.19		0.00		12.98	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.31					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 12: Azusa Canyon Rd at Nubia St

Control Type:	Two-way stop	Delay (sec / veh):	21.1
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.000

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	42	323	0	0	462	26	51	0	99	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	43	329	0	0	471	27	52	0	101	0	0	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	82	0	0	118	7	13	0	25	0	0	0
Total Analysis Volume [veh/h]	43	329	0	0	471	27	52	0	101	0	0	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.04	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.13	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	8.48	0.00	0.00	7.90	0.00	0.00	19.64	21.11	12.64	16.94	18.61	9.20
Movement LOS	A	A	A	A	A	A	C	C	B	C	C	A
95th-Percentile Queue Length [veh/ln]	0.12	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.25	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	3.12	0.00	0.00	0.00	0.00	0.00	31.16	31.16	31.16	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.98			0.00			15.02			14.91		
Approach LOS	A			A			C			B		
d_I, Intersection Delay [s/veh]	2.60											
Intersection LOS	C											

Intersection Level Of Service Report
Intersection 13: 4th St at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.677

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	161	2	46	8	6	21	8	2181	87	63	1000	6
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	164	2	47	8	6	21	8	2225	89	64	1020	6
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	41	1	12	2	2	5	2	556	22	16	255	2
Total Analysis Volume [veh/h]	164	2	47	8	6	21	8	2225	89	64	1020	6
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.05	0.03	0.01	0.02	0.02	0.01	0.46	0.06	0.04	0.32	0.00
Intersection LOS	B											
Intersection V/C	0.677											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.865

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	96	510	90	208	698	322	430	1658	120	99	588	70
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	98	520	92	212	712	328	439	1691	122	101	600	71
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	25	130	23	53	178	82	110	423	31	25	150	18
Total Analysis Volume [veh/h]	98	520	92	212	712	328	439	1691	122	101	600	71
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.06	0.19	0.19	0.13	0.22	0.07	0.14	0.38	0.38	0.06	0.21	0.21
Intersection LOS	D											
Intersection V/C	0.865											

5010 Azusa Canyon Road

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Report File: G:\...\FB PM (Int 15-16).pdf

Scenario 2 Future Baseline
7/14/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	ICU 1	EB Thru	0.521	-	A
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	ICU 1	SB Thru	0.567	-	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.521

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	259	241	0	1156	408	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	264	246	0	1179	416	0
Peak Hour Factor	0.9740	0.9740	1.0000	0.9740	0.9740	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	68	0	0	303	107	0
Total Analysis Volume [veh/h]	271	0	0	1210	427	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.17	0.00	0.00	0.25	0.13	0.00
Intersection LOS	A					
Intersection V/C	0.521					

Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.567

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	864	0	0	1501	217	208
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.02	1.00	1.00	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	881	0	0	1531	221	212
Peak Hour Factor	0.9720	1.0000	1.0000	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	227	0	0	394	57	55
Total Analysis Volume [veh/h]	906	0	0	1575	227	218
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.19	0.00	0.00	0.33	0.07	0.14
Intersection LOS	A					
Intersection V/C	0.567					

FUTURE BASELINE WITH PROJECT

5010 Azusa Canyon Road

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Report File: G:\...\amOYP.pdf

Scenario 2 Future Baseline With Project
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 Fwy SB Onramp at Live Oak Ave	Signalized	ICU 1	WB Thru	0.576	-	A
2	I-605 Fwy NB Ramps at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Right	1.305	186.1	F
3	Graham Access Rd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.653	-	B
4	Live Oak Ln at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Left	0.015	61.9	F
5	Rivergrade Rd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.674	-	B
6	Stewart Ave at Live Oak Ave	Signalized	ICU 1	WB Thru	0.834	-	D
7	Baldwin Park Blvd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.627	-	B
8	Arrow Hwy at Live Oak Ave	Signalized	ICU 1	WB Thru	0.689	-	B
9	Maine Ave at Arrow Hwy	Signalized	ICU 1	WB Thru	0.768	-	C
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	WB Thru	0.914	-	E
11	Azusa Canyon Rd at Sandstone St	Two-way stop	HCM 6th Edition	WB Left	0.008	33.3	D
12	Azusa Canyon Rd at Nubia St	Two-way stop	HCM 6th Edition	WB Left	0.015	32.5	D
13	4th St at Arrow Hwy	Signalized	ICU 1	WB Thru	0.718	-	C
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	WB Thru	0.936	-	E

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 Fwy SB Onramp at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.576

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	278	521	608	1306
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	284	531	620	1332
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	71	133	155	333
Total Analysis Volume [veh/h]	0	0	284	531	620	1332
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.09	0.00	0.39	0.42
Intersection LOS	A					
Intersection V/C	0.576					

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	186.1
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.305

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	63	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	577	0	0	477	0	284	0	0	1474	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	144	0	0	119	0	71	0	0	369	0
Total Analysis Volume [veh/h]	0	0	577	0	0	477	0	284	0	0	1474	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.65	0.00	0.00	1.31	0.00	0.00	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	16.31	0.00	0.00	186.07	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			C			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	4.96	0.00	0.00	22.06	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	124.03	0.00	0.00	551.44	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	16.31			186.07			0.00			0.00		
Approach LOS	C			F			A			A		
d_I, Intersection Delay [s/veh]	34.91											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 3: Graham Access Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.653

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	110	90	702	79	38	1336
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	63	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	112	92	779	81	39	1363
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	28	23	195	20	10	341
Total Analysis Volume [veh/h]	112	92	779	81	39	1363
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.13	0.24	0.05	0.02	0.43
Intersection LOS	B					
Intersection V/C	0.653					

Intersection Level Of Service Report
Intersection 4: Live Oak Ln at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	61.9
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.015

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	1	103	37	770	1277	31
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	63	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1	105	38	848	1303	32
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	26	10	212	326	8
Total Analysis Volume [veh/h]	1	105	38	848	1303	32
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.25	0.07	0.01	0.01	0.00
d_M, Delay for Movement [s/veh]	61.92	16.95	12.42	0.00	0.00	0.00
Movement LOS	F	C	B	A	A	A
95th-Percentile Queue Length [veh/ln]	1.06	1.06	0.23	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	26.61	26.61	5.85	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	17.37		0.53		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	0.99					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 5: Rivergrade Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.674

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	76	79	130	17	244	76	124	649	65	347	1097	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	63	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	78	81	133	17	249	78	126	725	66	354	1119	14
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	20	20	33	4	62	20	32	181	17	89	280	4
Total Analysis Volume [veh/h]	78	81	133	17	249	78	126	725	66	354	1119	14
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.05	0.08	0.01	0.08	0.05	0.08	0.23	0.04	0.22	0.35	0.01
Intersection LOS	B											
Intersection V/C	0.674											

Intersection Level Of Service Report
Intersection 6: Stewart Ave at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.834

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	256	84	28	12	33	68	13	644	30	37	1518	35
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	63	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	261	86	29	12	34	69	13	720	31	38	1548	36
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	65	22	7	3	9	17	3	180	8	10	387	9
Total Analysis Volume [veh/h]	261	86	29	12	34	69	13	720	31	38	1548	36
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.16	0.24	0.24	0.01	0.02	0.04	0.01	0.23	0.02	0.02	0.48	0.02
Intersection LOS	D											
Intersection V/C	0.834											

Intersection Level Of Service Report
Intersection 7: Baldwin Park Blvd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.627

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	373	210	612	72	141	1223
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	5	63	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	380	219	687	73	144	1247
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	95	55	172	18	36	312
Total Analysis Volume [veh/h]	380	219	687	73	144	1247
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.12	0.14	0.21	0.05	0.09	0.39
Intersection LOS	B					
Intersection V/C	0.627					

Intersection Level Of Service Report
Intersection 8: Arrow Hwy at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.689

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	306	56	102	663	1270	1458
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	33	0	0	68	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	345	57	104	744	1295	1487
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	86	14	26	186	324	0
Total Analysis Volume [veh/h]	345	57	104	744	1295	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Unsignalized
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.11	0.04	0.07	0.23	0.40	0.00
Intersection LOS	B					
Intersection V/C	0.689					

Intersection Level Of Service Report
Intersection 9: Maine Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.768

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	463	66	883	123	70	2374
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	101	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	472	67	1002	125	71	2421
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	118	17	251	31	18	605
Total Analysis Volume [veh/h]	472	67	1002	125	71	2421
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.15	0.04	0.31	0.08	0.04	0.50
Intersection LOS	C					
Intersection V/C	0.768					

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.914

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	708	4	125	10	4	8	5	806	97	91	1810	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	101	44	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	722	4	128	10	4	8	5	822	200	137	1846	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	181	1	32	3	1	2	1	206	50	34	462	2
Total Analysis Volume [veh/h]	722	4	128	10	4	8	5	822	200	137	1846	9
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.23	0.23	0.08	0.01	0.01	0.01	0.00	0.21	0.21	0.09	0.58	0.01
Intersection LOS	E											
Intersection V/C	0.914											

Intersection Level Of Service Report
Intersection 11: Azusa Canyon Rd at Sandstone St

Control Type:	Two-way stop	Delay (sec / veh):	33.3
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.008

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	3	830	0	0	171	5	14	0	7	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	7	96	49	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	8	1	10	9	0	0	0	0	1	0	15
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	3	855	8	106	232	5	14	0	7	1	0	15
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	214	2	27	58	1	4	0	2	0	0	4
Total Analysis Volume [veh/h]	3	855	8	106	232	5	14	0	7	1	0	15
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.01	0.00	0.13	0.00	0.00	0.07	0.00	0.01	0.01	0.00	0.03
d_M, Delay for Movement [s/veh]	7.69	0.00	0.00	10.28	0.00	0.00	22.78	32.07	9.89	33.26	31.39	11.50
Movement LOS	A	A	A	B	A	A	C	D	A	D	D	B
95th-Percentile Queue Length [veh/ln]	0.01	0.00	0.00	0.46	0.00	0.00	0.23	0.23	0.23	0.10	0.10	0.10
95th-Percentile Queue Length [ft/ln]	0.17	0.00	0.00	11.59	0.00	0.00	5.86	5.86	5.86	2.61	2.61	2.61
d_A, Approach Delay [s/veh]	0.03			3.18			18.48			12.86		
Approach LOS	A			A			C			B		
d_I, Intersection Delay [s/veh]	1.37											
Intersection LOS	D											

Intersection Level Of Service Report
Intersection 12: Azusa Canyon Rd at Nubia St

Control Type:	Two-way stop	Delay (sec / veh):	32.5
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.015

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	62	808	0	0	149	17	21	0	54	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	7	10	49	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	1	3	9	1	0	0	0	0	2	0	8
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	63	832	13	58	153	17	21	0	55	2	0	8
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	16	208	3	15	38	4	5	0	14	1	0	2
Total Analysis Volume [veh/h]	63	832	13	58	153	17	21	0	55	2	0	8
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.04	0.01	0.00	0.07	0.00	0.00	0.08	0.00	0.06	0.02	0.00	0.01
d_M, Delay for Movement [s/veh]	7.65	0.00	0.00	9.85	0.00	0.00	20.67	29.08	9.79	32.47	28.62	11.46
Movement LOS	A	A	A	A	A	A	C	D	A	D	D	B
95th-Percentile Queue Length [veh/ln]	0.14	0.00	0.00	0.23	0.00	0.00	0.49	0.49	0.49	0.09	0.09	0.09
95th-Percentile Queue Length [ft/ln]	3.48	0.00	0.00	5.85	0.00	0.00	12.24	12.24	12.24	2.22	2.22	2.22
d_A, Approach Delay [s/veh]	0.53			2.51			12.79			15.66		
Approach LOS	A			A			B			C		
d_I, Intersection Delay [s/veh]	1.79											
Intersection LOS	D											

Intersection Level Of Service Report
Intersection 13: 4th St at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.718

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	101	2	29	6	2	5	21	874	142	93	1725	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	44	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	103	2	30	6	2	5	21	891	145	95	1804	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	1	8	2	1	1	5	223	36	24	451	2
Total Analysis Volume [veh/h]	103	2	30	6	2	5	21	891	145	95	1804	9
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.03	0.02	0.00	0.01	0.01	0.01	0.19	0.09	0.06	0.56	0.01
Intersection LOS	C											
Intersection V/C	0.718											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.936

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	170	641	66	96	510	465	356	530	59	68	1131	106
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	35	0	0	0	0	9	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	173	654	67	98	520	509	363	541	60	69	1163	108
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	43	164	17	25	130	127	91	135	15	17	291	27
Total Analysis Volume [veh/h]	173	654	67	98	520	509	363	541	60	69	1163	108
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.11	0.23	0.23	0.06	0.16	0.20	0.11	0.13	0.13	0.04	0.40	0.40
Intersection LOS	E											
Intersection V/C	0.936											

5010 Azusa Canyon Road

Vistro File: G:\...\SH-AME.vistro
Report File: G:\...\FBP AM (Int 15-16).pdf

Scenario 5 Future Baseline Plus Project
7/14/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	ICU 1	WB Thru	0.728	-	C
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	ICU 1	SB Thru	0.526	-	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.728

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	408	589	0	679	1019	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	33	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	449	601	0	693	1039	0
Peak Hour Factor	0.9630	0.9630	1.0000	0.9630	0.9630	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	117	0	0	180	270	0
Total Analysis Volume [veh/h]	466	0	0	720	1079	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.29	0.00	0.00	0.15	0.34	0.00
Intersection LOS	C					
Intersection V/C	0.728					

Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.526

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	999	0	0	1195	248	230
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.02	1.00	1.00	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	35	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1019	0	0	1219	288	235
Peak Hour Factor	0.9780	1.0000	1.0000	0.9780	0.9780	0.9780
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	260	0	0	312	74	60
Total Analysis Volume [veh/h]	1042	0	0	1246	294	240
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.22	0.00	0.00	0.26	0.09	0.17
Intersection LOS	A					
Intersection V/C	0.526					

5010 Azusa Canyon Road

Vistro File: G:\...\AMEPi.vistro
Report File: G:\...\amOYPi.pdf

Scenario 2 Future Baseline With Project
12/5/2018

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
2	I-605 Fwy NB Ramps at Live Oak Ave	Signalized	ICU 1	WB Thru	0.741	-	C
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	WB Thru	0.914	-	E
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	WB Thru	0.902	-	E

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.741

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	63	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	577	0	0	477	0	284	0	0	1474	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	144	0	0	0	0	71	0	0	369	0
Total Analysis Volume [veh/h]	0	0	577	0	0	0	0	284	0	0	1474	0
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	0	2	0	0	6	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.46	0.00
Intersection LOS	C											
Intersection V/C	0.741											

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.914

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	708	4	125	10	4	8	5	806	97	91	1810	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	101	44	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	722	4	128	10	4	8	5	822	200	137	1846	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	181	1	32	3	1	2	1	206	50	34	462	2
Total Analysis Volume [veh/h]	722	4	128	10	4	8	5	822	200	137	1846	9
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.23	0.23	0.08	0.01	0.01	0.01	0.00	0.21	0.21	0.09	0.58	0.01
Intersection LOS	E											
Intersection V/C	0.914											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.902

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	170	641	66	96	510	465	356	530	59	68	1131	106
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	35	0	0	0	0	9	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	173	654	67	98	520	509	363	541	60	69	1163	108
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	43	164	17	25	130	127	91	135	15	17	291	27
Total Analysis Volume [veh/h]	173	654	67	98	520	509	363	541	60	69	1163	108
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.11	0.23	0.23	0.06	0.16	0.20	0.11	0.13	0.13	0.04	0.36	0.07
Intersection LOS	E											
Intersection V/C	0.902											

5010 Azusa Canyon Road

Vistro File: G:\...\PMEP.vistro
Report File: G:\...\pmOYP.pdf

Scenario 2 Future Baseline With Project
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 Fwy SB Onramp at Live Oak Ave	Signalized	ICU 1	WB Left	0.860	-	D
2	I-605 Fwy NB Ramps at Live Oak Ave	Two-way stop	HCM 6th Edition	NB Right	1.314	182.5	F
3	Graham Access Rd at Live Oak Ave	Signalized	ICU 1	EB Thru	0.678	-	B
4	Live Oak Ln at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Left	0.071	71.0	F
5	Rivergrade Rd at Live Oak Ave	Signalized	ICU 1	EB Thru	1.037	-	F
6	Stewart Ave at Live Oak Ave	Signalized	ICU 1	EB Thru	0.926	-	E
7	Baldwin Park Blvd at Live Oak Ave	Signalized	ICU 1	EB Thru	0.853	-	D
8	Arrow Hwy at Live Oak Ave	Signalized	ICU 1	EB Thru	1.008	-	F
9	Maine Ave at Arrow Hwy	Signalized	ICU 1	EB Thru	0.989	-	E
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	EB Thru	1.034	-	F
11	Azusa Canyon Rd at Sandstone St	Two-way stop	HCM 6th Edition	WB Thru	0.000	20.1	C
12	Azusa Canyon Rd at Nubia St	Two-way stop	HCM 6th Edition	EB Thru	0.000	21.4	C
13	4th St at Arrow Hwy	Signalized	ICU 1	EB Thru	0.685	-	B
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	EB Thru	0.866	-	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 Fwy SB Onramp at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.860

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	1183	1209	549	898
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	52	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	1207	1233	612	916
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	302	308	153	229
Total Analysis Volume [veh/h]	0	0	1207	1233	612	916
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.38	0.00	0.38	0.29
Intersection LOS	D					
Intersection V/C	0.860					

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	182.5
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.314

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	2	0	0	0	0	0	0	0	52	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	587	0	0	531	0	1207	0	0	997	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	147	0	0	133	0	302	0	0	249	0
Total Analysis Volume [veh/h]	0	0	587	0	0	531	0	1207	0	0	997	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	1.31	0.00	0.00	1.02	0.00	0.01	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	182.49	0.00	0.00	71.66	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			F			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	26.00	0.00	0.00	14.64	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	650.01	0.00	0.00	365.91	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	182.49			71.66			0.00			0.00		
Approach LOS	F			F			A			A		
d_I, Intersection Delay [s/veh]	43.70											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 3: Graham Access Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.678

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	10	10	1749	8	11	916
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	2	0	0	52
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	10	10	1786	8	11	986
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	3	447	2	3	247
Total Analysis Volume [veh/h]	10	10	1786	8	11	986
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.01	0.56	0.01	0.01	0.31
Intersection LOS	B					
Intersection V/C	0.678					

Intersection Level Of Service Report
Intersection 4: Live Oak Ln at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	71.0
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.071

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	4	34	39	1735	893	7
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	2	52	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	4	35	40	1772	963	7
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	9	10	443	241	2
Total Analysis Volume [veh/h]	4	35	40	1772	963	7
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane	No		
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.07	0.06	0.02	0.01	0.00
d_M, Delay for Movement [s/veh]	70.95	13.69	10.30	0.00	0.00	0.00
Movement LOS	F	B	B	A	A	A
95th-Percentile Queue Length [veh/ln]	0.47	0.47	0.18	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	11.67	11.67	4.41	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	19.56		0.23		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	0.42					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 5: Rivergrade Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.037

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	118	182	508	15	18	59	44	1701	30	95	715	22
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	2	0	0	52	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	120	186	518	15	18	60	45	1737	31	97	781	22
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	30	47	130	4	5	15	11	434	8	24	195	6
Total Analysis Volume [veh/h]	120	186	518	15	18	60	45	1737	31	97	781	22
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.08	0.12	0.32	0.01	0.01	0.04	0.03	0.54	0.02	0.06	0.24	0.01
Intersection LOS	F											
Intersection V/C	1.037											

Intersection Level Of Service Report
Intersection 6: Stewart Ave at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.926

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	53	29	17	134	181	14	31	2049	312	36	670	16
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	2	0	0	52	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	54	30	17	137	185	14	32	2092	318	37	735	16
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	14	8	4	34	46	4	8	523	80	9	184	4
Total Analysis Volume [veh/h]	54	30	17	137	185	14	32	2092	318	37	735	16
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.06	0.06	0.09	0.12	0.01	0.02	0.65	0.20	0.02	0.23	0.01
Intersection LOS	E											
Intersection V/C	0.926											

Intersection Level Of Service Report
Intersection 7: Baldwin Park Blvd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.853

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	96	131	1469	599	312	596
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	2	0	3	52
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	98	134	1500	611	321	660
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	25	34	375	153	80	165
Total Analysis Volume [veh/h]	98	134	1500	611	321	660
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.08	0.47	0.38	0.20	0.21
Intersection LOS	D					
Intersection V/C	0.853					

Intersection Level Of Service Report
Intersection 8: Arrow Hwy at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.008

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	1108	136	53	1616	796	449
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	2	55	26
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1130	139	54	1650	867	484
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	283	35	14	413	217	0
Total Analysis Volume [veh/h]	1130	139	54	1650	867	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Unsignalized
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.35	0.09	0.03	0.52	0.27	0.00
Intersection LOS	F					
Intersection V/C	1.008					

Intersection Level Of Service Report
Intersection 9: Maine Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.989

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	223	81	2398	341	72	1022
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	2	0	0	81
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	227	83	2448	348	73	1123
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	57	21	612	87	18	281
Total Analysis Volume [veh/h]	227	83	2448	348	73	1123
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.05	0.77	0.22	0.05	0.23
Intersection LOS	E					
Intersection V/C	0.989					

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.034

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	128	7	247	26	20	22	9	2000	299	141	995	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	81	0	35	0	0	0	0	0	2	1	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	212	7	287	27	20	22	9	2040	307	145	1015	14
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	53	2	72	7	5	6	2	510	77	36	254	4
Total Analysis Volume [veh/h]	212	7	287	27	20	22	9	2040	307	145	1015	14
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.07	0.18	0.02	0.03	0.03	0.01	0.64	0.19	0.09	0.32	0.01
Intersection LOS	F											
Intersection V/C	1.034											

Intersection Level Of Service Report
Intersection 11: Azusa Canyon Rd at Sandstone St

Control Type:	Two-way stop	Delay (sec / veh):	20.1
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.000

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	9	371	0	0	459	12	10	0	5	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	37	0	3	0	0	0	0	0	5	0	79
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	14	1	12	8	0	0	0	0	2	0	13
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	9	429	1	15	476	12	10	0	5	7	0	92
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	2	107	0	4	119	3	3	0	1	2	0	23
Total Analysis Volume [veh/h]	9	429	1	15	476	12	10	0	5	7	0	92
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.01	0.00	0.00	0.04	0.00	0.01	0.02	0.00	0.12
d_M, Delay for Movement [s/veh]	8.34	0.00	0.00	8.20	0.00	0.00	18.85	19.59	10.16	17.26	20.13	10.32
Movement LOS	A	A	A	A	A	A	C	C	B	C	C	B
95th-Percentile Queue Length [veh/ln]	0.03	0.00	0.00	0.04	0.00	0.00	0.14	0.14	0.14	0.48	0.48	0.48
95th-Percentile Queue Length [ft/ln]	0.63	0.00	0.00	1.00	0.00	0.00	3.41	3.41	3.41	11.92	11.92	11.92
d_A, Approach Delay [s/veh]	0.17			0.24			15.95			10.81		
Approach LOS	A			A			C			B		
d_I, Intersection Delay [s/veh]	1.43											
Intersection LOS	C											

Intersection Level Of Service Report
Intersection 12: Azusa Canyon Rd at Nubia St

Control Type:	Two-way stop	Delay (sec / veh):	21.4
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.000

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	42	323	0	0	462	26	51	0	99	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	5	0	0	0	0	8	0	37
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	43	329	0	0	476	27	52	0	101	8	0	37
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	82	0	0	119	7	13	0	25	2	0	9
Total Analysis Volume [veh/h]	43	329	0	0	476	27	52	0	101	8	0	37
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.04	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.13	0.03	0.00	0.04
d_M, Delay for Movement [s/veh]	8.50	0.00	0.00	7.90	0.00	0.00	20.51	21.43	12.89	17.41	19.12	9.62
Movement LOS	A	A	A	A	A	A	C	C	B	C	C	A
95th-Percentile Queue Length [veh/ln]	0.13	0.00	0.00	0.00	0.00	0.00	1.30	1.30	1.30	0.22	0.22	0.22
95th-Percentile Queue Length [ft/ln]	3.13	0.00	0.00	0.00	0.00	0.00	32.52	32.52	32.52	5.61	5.61	5.61
d_A, Approach Delay [s/veh]	0.98			0.00			15.48			11.00		
Approach LOS	A			A			C			B		
d_I, Intersection Delay [s/veh]	3.01											
Intersection LOS	C											

Intersection Level Of Service Report
Intersection 13: 4th St at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.685

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	161	2	46	8	6	21	8	2181	87	63	1000	6
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	35	0	0	1	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	164	2	47	8	6	21	8	2260	89	64	1021	6
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	41	1	12	2	2	5	2	565	22	16	255	2
Total Analysis Volume [veh/h]	164	2	47	8	6	21	8	2260	89	64	1021	6
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.05	0.03	0.01	0.02	0.02	0.01	0.47	0.06	0.04	0.32	0.00
Intersection LOS	B											
Intersection V/C	0.685											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.866

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	96	510	90	208	698	322	430	1658	120	99	588	70
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	1	28	7	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	98	520	92	212	712	329	467	1698	122	101	600	71
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	25	130	23	53	178	82	117	425	31	25	150	18
Total Analysis Volume [veh/h]	98	520	92	212	712	329	467	1698	122	101	600	71
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.06	0.19	0.19	0.13	0.22	0.06	0.15	0.38	0.38	0.06	0.21	0.21
Intersection LOS	D											
Intersection V/C	0.866											

5010 Azusa Canyon Road

Vistro File: G:\...\SH-PME.vistro
Report File: G:\...\FBP PM (Int 15-16).pdf

Scenario 5 Future Baseline Plus Project
7/14/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	ICU 1	EB Thru	0.521	-	A
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	ICU 1	SB Thru	0.568	-	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.521

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	259	241	0	1156	408	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	264	246	0	1179	416	0
Peak Hour Factor	0.9740	0.9740	1.0000	0.9740	0.9740	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	68	0	0	303	107	0
Total Analysis Volume [veh/h]	271	0	0	1210	427	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.17	0.00	0.00	0.25	0.13	0.00
Intersection LOS	A					
Intersection V/C	0.521					

Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.568

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	864	0	0	1501	217	208
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.02	1.00	1.00	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	1	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	881	0	0	1531	222	212
Peak Hour Factor	0.9720	1.0000	1.0000	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	227	0	0	394	57	55
Total Analysis Volume [veh/h]	906	0	0	1575	228	218
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.19	0.00	0.00	0.33	0.07	0.14
Intersection LOS	A					
Intersection V/C	0.568					

5010 Azusa Canyon Road

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Report File: G:\...\pmOYPi.pdf

Scenario 2 Future Baseline With Project
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
2	I-605 Fwy NB Ramps at Live Oak Ave	Signalized	ICU 1	EB Thru	0.543	-	A
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	EB Thru	0.885	-	D
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	EB Thru	0.866	-	D

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.543

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	2	0	0	0	0	0	0	0	52	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	587	0	0	531	0	1207	0	0	997	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	0	0	133	0	302	0	0	249	0
Total Analysis Volume [veh/h]	0	0	0	0	0	531	0	1207	0	0	997	0
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	90
Lost time [s]	0.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	0	2	0	0	6	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.38	0.00	0.00	0.31	0.00
Intersection LOS	A											
Intersection V/C	0.543											

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.885

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	128	7	247	26	20	22	9	2000	299	141	995	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	81	0	35	0	0	0	0	0	2	1	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	212	7	287	27	20	22	9	2040	307	145	1015	14
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	53	2	72	7	5	6	2	510	77	36	254	4
Total Analysis Volume [veh/h]	212	7	287	27	20	22	9	2040	307	145	1015	14
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.07	0.18	0.02	0.03	0.03	0.01	0.49	0.49	0.09	0.32	0.01
Intersection LOS	D											
Intersection V/C	0.885											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.866

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	96	510	90	208	698	322	430	1658	120	99	588	70
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	1	28	7	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	98	520	92	212	712	329	467	1698	122	101	600	71
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	25	130	23	53	178	82	117	425	31	25	150	18
Total Analysis Volume [veh/h]	98	520	92	212	712	329	467	1698	122	101	600	71
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.06	0.19	0.19	0.13	0.22	0.21	0.15	0.38	0.38	0.06	0.19	0.04
Intersection LOS	D											
Intersection V/C	0.866											

FUTURE BASELINE PLUS CUMULATIVE PROJECTS

5010 Azusa Canyon Road

Vistro File: G:\...\AME.vistro
Report File: G:\...\amOYC.pdf

Scenario 3 Future Baseline Plus Cumulative Projects
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 Fwy SB Onramp at Live Oak Ave	Signalized	ICU 1	WB Thru	0.724	-	C
2	I-605 Fwy NB Ramps at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Right	3.204	1,025.8	F
3	Graham Access Rd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.730	-	C
4	Live Oak Ln at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Left	0.030	117.3	F
5	Rivergrade Rd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.807	-	D
6	Stewart Ave at Live Oak Ave	Signalized	ICU 1	WB Thru	0.883	-	D
7	Baldwin Park Blvd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.735	-	C
8	Arrow Hwy at Live Oak Ave	Signalized	ICU 1	WB Thru	0.782	-	C
9	Maine Ave at Arrow Hwy	Signalized	ICU 1	WB Thru	0.801	-	D
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	WB Thru	0.958	-	E
11	Azusa Canyon Rd at Sandstone St	Two-way stop	HCM 6th Edition	EB Left	0.035	14.3	B
12	Azusa Canyon Rd at Nubia St	Two-way stop	HCM 6th Edition	WB Left	0.013	29.1	D
13	4th St at Arrow Hwy	Signalized	ICU 1	WB Thru	0.742	-	C
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	WB Right	1.004	-	F

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 Fwy SB Onramp at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.724

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	278	521	608	1306
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	59	62	133	206	535
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	59	346	664	826	1867
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	15	87	166	207	467
Total Analysis Volume [veh/h]	0	59	346	664	826	1867
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.11	0.00	0.52	0.58
Intersection LOS	C					
Intersection V/C	0.724					

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	1,025.8
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	3.204

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	338	0	0	495	0	121	0	0	246	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	852	0	0	972	0	405	0	0	1720	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	213	0	0	243	0	101	0	0	430	0
Total Analysis Volume [veh/h]	0	0	852	0	0	972	0	405	0	0	1720	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	1.05	0.00	0.00	3.20	0.00	0.00	0.00	0.00	0.02	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	68.10	0.00	0.00	1025.80	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			F			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	20.63	0.00	0.00	87.74	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	515.86	0.00	0.00	2193.44	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	68.10			1025.80			0.00			0.00		
Approach LOS	F			F			A			A		
d_I, Intersection Delay [s/veh]	267.18											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 3: Graham Access Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.730

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	110	90	702	79	38	1336
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	459	0	0	246
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	112	92	1175	81	39	1609
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	28	23	294	20	10	402
Total Analysis Volume [veh/h]	112	92	1175	81	39	1609
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.13	0.37	0.05	0.02	0.50
Intersection LOS	C					
Intersection V/C	0.730					

Intersection Level Of Service Report
Intersection 4: Live Oak Ln at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	117.3
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.030

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	1	103	37	770	1277	31
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	459	246	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1	105	38	1244	1549	32
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	26	10	311	387	8
Total Analysis Volume [veh/h]	1	105	38	1244	1549	32
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.30	0.09	0.01	0.02	0.00
d_M, Delay for Movement [s/veh]	117.31	19.92	14.38	0.00	0.00	0.00
Movement LOS	F	C	B	A	A	A
95th-Percentile Queue Length [veh/ln]	0.09	1.26	0.30	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	2.29	31.46	7.38	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	20.84		0.43		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	0.93					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 5: Rivergrade Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.807

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	76	79	130	17	244	76	124	649	65	347	1097	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	2	5	0	2	106	94	365	0	2	140	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	78	83	138	17	251	184	220	1027	66	356	1259	14
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	20	21	35	4	63	46	55	257	17	89	315	4
Total Analysis Volume [veh/h]	78	83	138	17	251	184	220	1027	66	356	1259	14
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.05	0.09	0.01	0.08	0.12	0.14	0.32	0.04	0.22	0.39	0.01
Intersection LOS	D											
Intersection V/C	0.807											

Intersection Level Of Service Report
Intersection 6: Stewart Ave at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.883

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	256	84	28	12	33	68	13	644	30	37	1518	35
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	2	5	0	2	0	0	370	0	2	142	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	261	88	34	12	36	69	13	1027	31	40	1690	36
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	65	22	9	3	9	17	3	257	8	10	423	9
Total Analysis Volume [veh/h]	261	88	34	12	36	69	13	1027	31	40	1690	36
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.16	0.24	0.24	0.01	0.02	0.04	0.01	0.32	0.02	0.03	0.53	0.02
Intersection LOS	D											
Intersection V/C	0.883											

Intersection Level Of Service Report
Intersection 7: Baldwin Park Blvd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.735

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	373	0	210	0	0	0	0	612	72	141	1223	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00
Growth Rate	1.02	1.00	1.02	1.02	1.02	1.02	1.00	1.02	1.02	1.02	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	12	10	30	17	4	14	44	327	4	10	118	44
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	392	10	244	17	4	14	44	951	77	154	1365	44
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	98	3	61	4	1	4	11	238	19	39	341	11
Total Analysis Volume [veh/h]	392	10	244	17	4	14	44	951	77	154	1365	44
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.12	0.16	0.16	0.01	0.02	0.02	0.03	0.30	0.05	0.10	0.43	0.03
Intersection LOS	C											
Intersection V/C	0.735											

Intersection Level Of Service Report
Intersection 8: Arrow Hwy at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.782

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	306	56	102	663	1270	1458
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	28	66	98	276	106	47
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	340	123	202	952	1401	1534
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	85	31	51	238	350	0
Total Analysis Volume [veh/h]	340	123	202	952	1401	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Unsignalized
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.11	0.08	0.13	0.30	0.44	0.00
Intersection LOS	C					
Intersection V/C	0.782					

Intersection Level Of Service Report
Intersection 9: Maine Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.801

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	463	66	883	123	70	2374
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	7	0	300	4	0	146
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	479	67	1201	129	71	2567
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	120	17	300	32	18	642
Total Analysis Volume [veh/h]	479	67	1201	129	71	2567
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.15	0.04	0.38	0.08	0.04	0.53
Intersection LOS	D					
Intersection V/C	0.801					

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.958

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	708	4	125	10	4	8	5	806	97	91	1810	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	26	0	22	0	0	0	0	277	22	6	114	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	748	4	150	10	4	8	5	1099	121	99	1960	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	187	1	38	3	1	2	1	275	30	25	490	2
Total Analysis Volume [veh/h]	748	4	150	10	4	8	5	1099	121	99	1960	9
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.23	0.24	0.09	0.01	0.01	0.01	0.00	0.34	0.08	0.06	0.61	0.01
Intersection LOS	E											
Intersection V/C	0.958											

Intersection Level Of Service Report
Intersection 11: Azusa Canyon Rd at Sandstone St

Control Type:	Two-way stop	Delay (sec / veh):	14.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.035

Intersection Setup

Name						
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	3	830	171	5	14	7
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	48	28	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	3	895	202	5	14	7
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	224	51	1	4	2
Total Analysis Volume [veh/h]	3	895	202	5	14	7
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.01	0.00	0.00	0.03	0.01
d_M, Delay for Movement [s/veh]	7.62	0.00	0.00	0.00	14.27	9.14
Movement LOS	A	A	A	A	B	A
95th-Percentile Queue Length [veh/ln]	0.01	0.00	0.00	0.00	0.13	0.13
95th-Percentile Queue Length [ft/ln]	0.16	0.00	0.00	0.00	3.30	3.30
d_A, Approach Delay [s/veh]	0.03		0.00		12.56	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.25					
Intersection LOS	B					

Intersection Level Of Service Report
Intersection 12: Azusa Canyon Rd at Nubia St

Control Type:	Two-way stop	Delay (sec / veh):	29.1
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.013

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	62	808	23	5	149	17	21	0	54	2	0	2
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	48	0	0	28	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	63	872	23	5	180	17	21	0	55	2	0	2
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	16	218	6	1	45	4	5	0	14	1	0	1
Total Analysis Volume [veh/h]	63	872	23	5	180	17	21	0	55	2	0	2
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.01	0.00	0.01	0.00	0.00	0.07	0.00	0.06	0.01	0.00	0.00
d_M, Delay for Movement [s/veh]	7.72	0.00	0.00	9.73	0.00	0.00	18.34	26.56	9.68	29.12	26.06	11.64
Movement LOS	A	A	A	A	A	A	C	D	A	D	D	B
95th-Percentile Queue Length [veh/ln]	0.14	0.00	0.00	0.02	0.00	0.00	0.45	0.45	0.45	0.05	0.05	0.05
95th-Percentile Queue Length [ft/ln]	3.56	0.00	0.00	0.49	0.00	0.00	11.13	11.13	11.13	1.28	1.28	1.28
d_A, Approach Delay [s/veh]	0.51			0.24			12.08			20.38		
Approach LOS	A			A			B			C		
d_I, Intersection Delay [s/veh]	1.24											
Intersection LOS	D											

Intersection Level Of Service Report
Intersection 13: 4th St at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.742

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	101	2	29	6	2	5	21	874	142	93	1725	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	1	0	0	0	0	299	0	1	120	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	103	2	31	6	2	5	21	1190	145	96	1880	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	1	8	2	1	1	5	298	36	24	470	2
Total Analysis Volume [veh/h]	103	2	31	6	2	5	21	1190	145	96	1880	9
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.03	0.02	0.00	0.01	0.01	0.01	0.25	0.09	0.06	0.59	0.01
Intersection LOS	C											
Intersection V/C	0.742											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.004

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	170	641	66	96	510	465	356	530	59	68	1131	106
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	10	18	16	65	7	12	25	279	5	2	108	10
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	183	672	83	163	527	486	388	820	65	71	1262	118
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	46	168	21	41	132	122	97	205	16	18	316	30
Total Analysis Volume [veh/h]	183	672	83	163	527	486	388	820	65	71	1262	118
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.11	0.24	0.24	0.10	0.16	0.18	0.12	0.18	0.18	0.04	0.43	0.43
Intersection LOS	F											
Intersection V/C	1.004											

5010 Azusa Canyon Road

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Report File: G:\...\FBC AM (Int 15-16).pdf

Scenario 3 Future Baseline Plus Cumulative Projects
7/14/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	ICU 1	SB Left	0.898	-	D
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	ICU 1	SB Thru	0.572	-	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.898

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	408	589	0	679	1019	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	230	527	0	168	126	0
Total Hourly Volume [veh/h]	646	1128	0	861	1165	0
Peak Hour Factor	0.9630	0.9630	1.0000	0.9630	0.9630	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	168	0	0	224	302	0
Total Analysis Volume [veh/h]	671	0	0	894	1210	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.42	0.00	0.00	0.19	0.38	0.00
Intersection LOS	D					
Intersection V/C	0.898					

Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.572

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	999	0	0	1195	248	230
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.02	1.00	1.00	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	13	0	0	34	155	0
Total Hourly Volume [veh/h]	1032	0	0	1253	408	235
Peak Hour Factor	0.9780	1.0000	1.0000	0.9780	0.9780	0.9780
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	264	0	0	320	104	60
Total Analysis Volume [veh/h]	1055	0	0	1281	417	240
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.22	0.00	0.00	0.27	0.13	0.21
Intersection LOS	A					
Intersection V/C	0.572					

5010 Azusa Canyon Road

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Report File: G:\...\pmOYC.pdf

Scenario 3 Future Baseline Plus Cumulative Projects
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 Fwy SB Onramp at Live Oak Ave	Signalized	ICU 1	WB Left	1.090	-	F
2	I-605 Fwy NB Ramps at Live Oak Ave	Two-way stop	HCM 6th Edition	NB Right	1.863	421.6	F
3	Graham Access Rd at Live Oak Ave	Signalized	ICU 1	EB Thru	0.778	-	C
4	Live Oak Ln at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Left	0.157	171.4	F
5	Rivergrade Rd at Live Oak Ave	Signalized	ICU 1	EB Thru	1.106	-	F
6	Stewart Ave at Live Oak Ave	Signalized	ICU 1	EB Thru	0.997	-	E
7	Baldwin Park Blvd at Live Oak Ave	Signalized	ICU 1	EB Thru	0.976	-	E
8	Arrow Hwy at Live Oak Ave	Signalized	ICU 1	EB Thru	1.062	-	F
9	Maine Ave at Arrow Hwy	Signalized	ICU 1	EB Thru	1.042	-	F
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	EB Thru	1.069	-	F
11	Azusa Canyon Rd at Sandstone St	Two-way stop	HCM 6th Edition	EB Left	0.028	15.5	C
12	Azusa Canyon Rd at Nubia St	Two-way stop	HCM 6th Edition	EB Thru	0.000	23.4	C
13	4th St at Arrow Hwy	Signalized	ICU 1	EB Thru	0.705	-	C
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	EB Thru	0.913	-	E

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 Fwy SB Onramp at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.090

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	1183	1209	549	898
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	95	92	484	375	213
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	95	1299	1717	935	1129
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	24	325	429	234	282
Total Analysis Volume [veh/h]	0	95	1299	1717	935	1129
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.41	0.00	0.58	0.35
Intersection LOS	F					
Intersection V/C	1.090					

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	421.6
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.863

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	138	0	0	202	0	187	0	0	386	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	723	0	0	733	0	1394	0	0	1331	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	181	0	0	183	0	349	0	0	333	0
Total Analysis Volume [veh/h]	0	0	723	0	0	733	0	1394	0	0	1331	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	1.86	0.00	0.00	1.80	0.00	0.01	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	421.60	0.00	0.00	393.21	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			F			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	47.56	0.00	0.00	46.64	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	1188.97	0.00	0.00	1166.11	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	421.60			393.21			0.00			0.00		
Approach LOS	F			F			A			A		
d_I, Intersection Delay [s/veh]	141.84											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 3: Graham Access Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.778

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	10	10	1749	8	11	916
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	325	0	0	386
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	10	10	2109	8	11	1320
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	3	527	2	3	330
Total Analysis Volume [veh/h]	10	10	2109	8	11	1320
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.01	0.66	0.01	0.01	0.41
Intersection LOS	C					
Intersection V/C	0.778					

Intersection Level Of Service Report
Intersection 4: Live Oak Ln at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	171.4
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.157

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	4	34	39	1735	893	7
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	325	386	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	4	35	40	2095	1297	7
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	9	10	524	324	2
Total Analysis Volume [veh/h]	4	35	40	2095	1297	7
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.16	0.08	0.07	0.02	0.01	0.00
d_M, Delay for Movement [s/veh]	171.36	14.41	12.23	0.00	0.00	0.00
Movement LOS	F	B	B	A	A	A
95th-Percentile Queue Length [veh/ln]	0.48	0.27	0.24	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	11.89	6.82	6.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	30.51		0.23		0.00	
Approach LOS	D		A		A	
d_I, Intersection Delay [s/veh]	0.48					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 5: Rivergrade Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.106

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	118	182	508	15	18	59	44	1701	30	95	715	22
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	2	3	0	2	99	113	212	0	3	287	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	120	188	521	15	20	159	158	1947	31	100	1016	22
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	30	47	130	4	5	40	40	487	8	25	254	6
Total Analysis Volume [veh/h]	120	188	521	15	20	159	158	1947	31	100	1016	22
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.08	0.12	0.33	0.01	0.01	0.10	0.10	0.61	0.02	0.06	0.32	0.01
Intersection LOS	F											
Intersection V/C	1.106											

Intersection Level Of Service Report
Intersection 6: Stewart Ave at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.997

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	53	29	17	134	181	14	31	2049	312	36	670	16
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	2	3	0	2	0	0	215	0	3	290	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	54	32	20	137	187	14	32	2305	318	40	973	16
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	14	8	5	34	47	4	8	576	80	10	243	4
Total Analysis Volume [veh/h]	54	32	20	137	187	14	32	2305	318	40	973	16
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.07	0.07	0.09	0.12	0.01	0.02	0.72	0.20	0.03	0.30	0.01
Intersection LOS	E											
Intersection V/C	0.997											

Intersection Level Of Service Report
Intersection 7: Baldwin Park Blvd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.976

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	96	0	131	0	0	0	0	1469	599	312	596	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00
Growth Rate	1.02	1.00	1.02	1.02	1.02	1.02	1.00	1.02	1.02	1.02	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	7	5	11	29	7	29	24	180	14	30	257	24
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	105	5	145	29	7	29	24	1678	625	348	865	24
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	1	36	7	2	7	6	420	156	87	216	6
Total Analysis Volume [veh/h]	105	5	145	29	7	29	24	1678	625	348	865	24
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.09	0.09	0.02	0.04	0.04	0.02	0.52	0.39	0.22	0.27	0.02
Intersection LOS	E											
Intersection V/C	0.976											

Intersection Level Of Service Report
Intersection 8: Arrow Hwy at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.062

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	1108	136	53	1616	796	449
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	47	65	98	122	246	66
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1177	204	152	1770	1058	524
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	294	51	38	443	265	0
Total Analysis Volume [veh/h]	1177	204	152	1770	1058	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Unsignalized
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.37	0.13	0.10	0.55	0.33	0.00
Intersection LOS	F					
Intersection V/C	1.062					

Intersection Level Of Service Report
Intersection 9: Maine Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.042

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	223	81	2398	341	72	1022
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	5	0	164	5	0	307
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	232	83	2610	353	73	1349
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	58	21	653	88	18	337
Total Analysis Volume [veh/h]	232	83	2610	353	73	1349
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.05	0.82	0.22	0.05	0.28
Intersection LOS	F					
Intersection V/C	1.042					

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.069

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	128	7	247	26	20	22	9	2000	299	141	995	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	28	0	7	0	0	0	0	128	30	21	276	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	159	7	259	27	20	22	9	2168	335	165	1291	14
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	40	2	65	7	5	6	2	542	84	41	323	4
Total Analysis Volume [veh/h]	159	7	259	27	20	22	9	2168	335	165	1291	14
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.05	0.16	0.02	0.03	0.03	0.01	0.68	0.21	0.10	0.40	0.01
Intersection LOS	F											
Intersection V/C	1.069											

Intersection Level Of Service Report
Intersection 11: Azusa Canyon Rd at Sandstone St

Control Type:	Two-way stop	Delay (sec / veh):	15.5
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.028

Intersection Setup

Name						
Approach	Northbound		Southbound		Eastbound	
Lane Configuration						
Turning Movement	Left	Thru	Thru	Right	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	9	371	459	12	10	5
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	35	51	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	9	413	519	12	10	5
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	2	103	130	3	3	1
Total Analysis Volume [veh/h]	9	413	519	12	10	5
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Free	Free	Stop
Flared Lane			No
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance			No
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.01	0.00	0.03	0.01
d_M, Delay for Movement [s/veh]	8.47	0.00	0.00	0.00	15.54	10.14
Movement LOS	A	A	A	A	C	B
95th-Percentile Queue Length [veh/ln]	0.03	0.00	0.00	0.00	0.11	0.11
95th-Percentile Queue Length [ft/ln]	0.65	0.00	0.00	0.00	2.73	2.73
d_A, Approach Delay [s/veh]	0.18		0.00		13.74	
Approach LOS	A		A		B	
d_I, Intersection Delay [s/veh]	0.29					
Intersection LOS	C					

Intersection Level Of Service Report
Intersection 12: Azusa Canyon Rd at Nubia St

Control Type:	Two-way stop	Delay (sec / veh):	23.4
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.000

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	42	323	0	0	462	26	51	0	99	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	35	0	0	51	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	43	364	0	0	522	27	52	0	101	0	0	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	91	0	0	131	7	13	0	25	0	0	0
Total Analysis Volume [veh/h]	43	364	0	0	522	27	52	0	101	0	0	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.04	0.00	0.00	0.00	0.01	0.00	0.19	0.00	0.14	0.00	0.00	0.00
d_M, Delay for Movement [s/veh]	8.64	0.00	0.00	7.99	0.00	0.00	21.72	23.39	13.47	18.28	20.31	9.31
Movement LOS	A	A	A	A	A	A	C	C	B	C	C	A
95th-Percentile Queue Length [veh/ln]	0.13	0.00	0.00	0.00	0.00	0.00	1.39	1.39	1.39	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	3.26	0.00	0.00	0.00	0.00	0.00	34.85	34.85	34.85	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	0.91			0.00			16.27			15.97		
Approach LOS	A			A			C			C		
d_I, Intersection Delay [s/veh]	2.58											
Intersection LOS	C											

Intersection Level Of Service Report
Intersection 13: 4th St at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.705

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	161	2	46	8	6	21	8	2181	87	63	1000	6
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	135	0	0	297	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	164	2	47	8	6	21	8	2360	89	64	1317	6
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	41	1	12	2	2	5	2	590	22	16	329	2
Total Analysis Volume [veh/h]	164	2	47	8	6	21	8	2360	89	64	1317	6
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.05	0.03	0.01	0.02	0.02	0.01	0.49	0.06	0.04	0.41	0.00
Intersection LOS	C											
Intersection V/C	0.705											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.913

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	96	510	90	208	698	322	430	1658	120	99	588	70
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	7	8	2	16	18	24	12	118	11	14	273	14
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	105	528	94	228	730	352	451	1809	133	115	873	85
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	132	24	57	183	88	113	452	33	29	218	21
Total Analysis Volume [veh/h]	105	528	94	228	730	352	451	1809	133	115	873	85
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.19	0.19	0.14	0.23	0.08	0.14	0.40	0.40	0.07	0.30	0.30
Intersection LOS	E											
Intersection V/C	0.913											

5010 Azusa Canyon Road

Vistro File: G:\...\SH-PME.vistro
Report File: G:\...\FBC PM (Int 15-16).pdf

Scenario 3 Future Baseline Plus Cumulative Projects
7/14/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	ICU 1	EB Thru	0.788	-	C
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	ICU 1	SB Thru	0.592	-	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.788

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	259	241	0	1156	408	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	209	202	0	615	53	0
Total Hourly Volume [veh/h]	473	448	0	1794	469	0
Peak Hour Factor	0.9740	0.9740	1.0000	0.9740	0.9740	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	121	0	0	460	120	0
Total Analysis Volume [veh/h]	486	0	0	1842	482	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.30	0.00	0.00	0.38	0.15	0.00
Intersection LOS	C					
Intersection V/C	0.788					

Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.592

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	864	0	0	1501	217	208
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.02	1.00	1.00	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	28	0	0	15	66	0
Total Hourly Volume [veh/h]	909	0	0	1546	287	212
Peak Hour Factor	0.9720	1.0000	1.0000	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	234	0	0	398	74	55
Total Analysis Volume [veh/h]	935	0	0	1591	295	218
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.19	0.00	0.00	0.33	0.09	0.16
Intersection LOS	A					
Intersection V/C	0.592					

FUTURE BASELINE PLUS CUMULATIVE PROJECTS WITH PROJECT

5010 Azusa Canyon Road

Vistro File: G:\...\AMEP.vistro

Scenario 3 Future Baseline Plus Cumulative Projects With Project

Report File: G:\...\amOYPC.pdf

6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 Fwy SB Onramp at Live Oak Ave	Signalized	ICU 1	WB Thru	0.724	-	C
2	I-605 Fwy NB Ramps at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Right	3.204	1,025.8	F
3	Graham Access Rd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.730	-	C
4	Live Oak Ln at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Left	0.033	126.3	F
5	Rivergrade Rd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.827	-	D
6	Stewart Ave at Live Oak Ave	Signalized	ICU 1	WB Thru	0.883	-	D
7	Baldwin Park Blvd at Live Oak Ave	Signalized	ICU 1	WB Thru	0.738	-	C
8	Arrow Hwy at Live Oak Ave	Signalized	ICU 1	WB Thru	0.794	-	C
9	Maine Ave at Arrow Hwy	Signalized	ICU 1	WB Thru	0.801	-	D
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	WB Thru	0.958	-	E
11	Azusa Canyon Rd at Sandstone St	Two-way stop	HCM 6th Edition	WB Left	0.009	36.5	E
12	Azusa Canyon Rd at Nubia St	Two-way stop	HCM 6th Edition	WB Left	0.017	35.7	E
13	4th St at Arrow Hwy	Signalized	ICU 1	WB Thru	0.755	-	C
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	WB Thru	1.007	-	F

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 Fwy SB Onramp at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.724

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	278	521	608	1306
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	59	62	133	206	535
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	59	346	664	826	1867
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	15	87	166	207	467
Total Analysis Volume [veh/h]	0	59	346	664	826	1867
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.11	0.00	0.52	0.58
Intersection LOS	C					
Intersection V/C	0.724					

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	1,025.8
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	3.204

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	401	0	0	495	0	121	0	0	246	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	915	0	0	972	0	405	0	0	1720	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	229	0	0	243	0	101	0	0	430	0
Total Analysis Volume [veh/h]	0	0	915	0	0	972	0	405	0	0	1720	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	1.13	0.00	0.00	3.20	0.00	0.00	0.00	0.00	0.02	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	93.95	0.00	0.00	1025.80	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			F			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	26.15	0.00	0.00	87.74	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	653.69	0.00	0.00	2193.44	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	93.95			1025.80			0.00			0.00		
Approach LOS	F			F			A			A		
d_I, Intersection Delay [s/veh]	269.95											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 3: Graham Access Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.730

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	110	90	702	79	38	1336
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	522	0	0	246
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	112	92	1238	81	39	1609
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	28	23	310	20	10	402
Total Analysis Volume [veh/h]	112	92	1238	81	39	1609
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.13	0.39	0.05	0.02	0.50
Intersection LOS	C					
Intersection V/C	0.730					

Intersection Level Of Service Report
Intersection 4: Live Oak Ln at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	126.3
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.033

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	1	103	37	770	1277	31
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	522	246	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1	105	38	1307	1549	32
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	26	10	327	387	8
Total Analysis Volume [veh/h]	1	105	38	1307	1549	32
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.31	0.09	0.01	0.02	0.00
d_M, Delay for Movement [s/veh]	126.28	20.44	14.38	0.00	0.00	0.00
Movement LOS	F	C	B	A	A	A
95th-Percentile Queue Length [veh/ln]	0.10	1.30	0.30	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	2.46	32.48	7.38	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	21.44		0.41		0.00	
Approach LOS	C		A		A	
d_I, Intersection Delay [s/veh]	0.93					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 5: Rivergrade Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.827

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	76	79	130	17	244	76	124	649	65	347	1097	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	2	5	0	2	106	94	428	0	2	140	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	78	83	138	17	251	184	220	1090	66	356	1259	14
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	20	21	35	4	63	46	55	273	17	89	315	4
Total Analysis Volume [veh/h]	78	83	138	17	251	184	220	1090	66	356	1259	14
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.05	0.09	0.01	0.08	0.12	0.14	0.34	0.04	0.22	0.39	0.01
Intersection LOS	D											
Intersection V/C	0.827											

Intersection Level Of Service Report
Intersection 6: Stewart Ave at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.883

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	256	84	28	12	33	68	13	644	30	37	1518	35
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	2	5	0	2	0	0	433	0	2	142	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	261	88	34	12	36	69	13	1090	31	40	1690	36
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	65	22	9	3	9	17	3	273	8	10	423	9
Total Analysis Volume [veh/h]	261	88	34	12	36	69	13	1090	31	40	1690	36
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.16	0.24	0.24	0.01	0.02	0.04	0.01	0.34	0.02	0.03	0.53	0.02
Intersection LOS	D											
Intersection V/C	0.883											

Intersection Level Of Service Report
Intersection 7: Baldwin Park Blvd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.738

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	373	0	210	0	0	0	0	612	72	141	1223	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00
Growth Rate	1.02	1.00	1.02	1.02	1.02	1.02	1.00	1.02	1.02	1.02	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	12	10	35	17	4	14	44	390	4	10	118	44
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	392	10	249	17	4	14	44	1014	77	154	1365	44
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	98	3	62	4	1	4	11	254	19	39	341	11
Total Analysis Volume [veh/h]	392	10	249	17	4	14	44	1014	77	154	1365	44
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.12	0.16	0.16	0.01	0.02	0.02	0.03	0.32	0.05	0.10	0.43	0.03
Intersection LOS	C											
Intersection V/C	0.738											

Intersection Level Of Service Report
Intersection 8: Arrow Hwy at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.794

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	306	56	102	663	1270	1458
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	61	66	98	344	106	47
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	373	123	202	1020	1401	1534
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	93	31	51	255	350	0
Total Analysis Volume [veh/h]	373	123	202	1020	1401	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Unsignalized
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.12	0.08	0.13	0.32	0.44	0.00
Intersection LOS	C					
Intersection V/C	0.794					

Intersection Level Of Service Report
Intersection 9: Maine Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.801

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	463	66	883	123	70	2374
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	7	0	401	4	0	146
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	479	67	1302	129	71	2567
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	120	17	326	32	18	642
Total Analysis Volume [veh/h]	479	67	1302	129	71	2567
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.15	0.04	0.41	0.08	0.04	0.53
Intersection LOS	D					
Intersection V/C	0.801					

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.958

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	708	4	125	10	4	8	5	806	97	91	1810	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	26	0	22	0	0	0	0	277	123	50	114	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	748	4	150	10	4	8	5	1099	222	143	1960	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	187	1	38	3	1	2	1	275	56	36	490	2
Total Analysis Volume [veh/h]	748	4	150	10	4	8	5	1099	222	143	1960	9
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.23	0.24	0.09	0.01	0.01	0.01	0.00	0.34	0.14	0.09	0.61	0.01
Intersection LOS	E											
Intersection V/C	0.958											

Intersection Level Of Service Report
Intersection 11: Azusa Canyon Rd at Sandstone St

Control Type:	Two-way stop	Delay (sec / veh):	36.5
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.009

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	3	830	0	0	171	5	14	0	7	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	48	7	96	77	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	8	1	10	9	0	0	0	0	1	0	15
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	3	903	8	106	260	5	14	0	7	1	0	15
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	226	2	27	65	1	4	0	2	0	0	4
Total Analysis Volume [veh/h]	3	903	8	106	260	5	14	0	7	1	0	15
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.01	0.00	0.14	0.00	0.00	0.07	0.00	0.01	0.01	0.00	0.03
d_M, Delay for Movement [s/veh]	7.75	0.00	0.00	10.54	0.00	0.00	24.60	35.34	10.16	36.54	34.51	11.75
Movement LOS	A	A	A	B	A	A	C	E	B	E	D	B
95th-Percentile Queue Length [veh/ln]	0.01	0.00	0.00	0.49	0.00	0.00	0.26	0.26	0.26	0.11	0.11	0.11
95th-Percentile Queue Length [ft/ln]	0.17	0.00	0.00	12.16	0.00	0.00	6.42	6.42	6.42	2.76	2.76	2.76
d_A, Approach Delay [s/veh]	0.03			3.01			19.79			13.30		
Approach LOS	A			A			C			B		
d_I, Intersection Delay [s/veh]	1.34											
Intersection LOS	E											

Intersection Level Of Service Report
Intersection 12: Azusa Canyon Rd at Nubia St

Control Type:	Two-way stop	Delay (sec / veh):	35.7
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.017

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	62	808	0	0	149	17	21	0	54	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	56	10	49	28	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	1	3	9	1	0	0	0	0	2	0	8
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	63	881	13	58	181	17	21	0	55	2	0	8
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	16	220	3	15	45	4	5	0	14	1	0	2
Total Analysis Volume [veh/h]	63	881	13	58	181	17	21	0	55	2	0	8
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.01	0.00	0.08	0.00	0.00	0.09	0.00	0.06	0.02	0.00	0.01
d_M, Delay for Movement [s/veh]	7.72	0.00	0.00	10.08	0.00	0.00	22.22	31.93	10.03	35.71	31.40	11.74
Movement LOS	A	A	A	B	A	A	C	D	B	E	D	B
95th-Percentile Queue Length [veh/ln]	0.14	0.00	0.00	0.24	0.00	0.00	0.53	0.53	0.53	0.10	0.10	0.10
95th-Percentile Queue Length [ft/ln]	3.57	0.00	0.00	6.12	0.00	0.00	13.17	13.17	13.17	2.40	2.40	2.40
d_A, Approach Delay [s/veh]	0.51			2.28			13.40			16.53		
Approach LOS	A			A			B			C		
d_I, Intersection Delay [s/veh]	1.74											
Intersection LOS	E											

Intersection Level Of Service Report
Intersection 13: 4th St at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.755

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	101	2	29	6	2	5	21	874	142	93	1725	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	1	0	0	0	0	299	0	1	164	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	103	2	31	6	2	5	21	1190	145	96	1924	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	1	8	2	1	1	5	298	36	24	481	2
Total Analysis Volume [veh/h]	103	2	31	6	2	5	21	1190	145	96	1924	9
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.03	0.02	0.00	0.01	0.01	0.01	0.25	0.09	0.06	0.60	0.01
Intersection LOS	C											
Intersection V/C	0.755											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.007

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	170	641	66	96	510	465	356	530	59	68	1131	106
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	10	18	16	65	7	47	25	279	5	2	117	10
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	183	672	83	163	527	521	388	820	65	71	1271	118
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	46	168	21	41	132	130	97	205	16	18	318	30
Total Analysis Volume [veh/h]	183	672	83	163	527	521	388	820	65	71	1271	118
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.11	0.24	0.24	0.10	0.16	0.20	0.12	0.18	0.18	0.04	0.43	0.43
Intersection LOS	F											
Intersection V/C	1.007											

5010 Azusa Canyon Road

Vistro File: G:\...\SH-AME.vistro
Report File: G:\...\FBCP AM (Int 15-16).pdf

Scenario 6 Future Baseline Plus Cumulative Plus Project
7/14/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	ICU 1	SB Left	0.919	-	E
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	ICU 1	SB Thru	0.583	-	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.919

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	408	589	0	679	1019	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	33	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	230	527	0	168	126	0
Total Hourly Volume [veh/h]	679	1128	0	861	1165	0
Peak Hour Factor	0.9630	0.9630	1.0000	0.9630	0.9630	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	176	0	0	224	302	0
Total Analysis Volume [veh/h]	705	0	0	894	1210	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.44	0.00	0.00	0.19	0.38	0.00
Intersection LOS	E					
Intersection V/C	0.919					

Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.583

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	999	0	0	1195	248	230
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.02	1.00	1.00	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	35	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	13	0	0	34	155	0
Total Hourly Volume [veh/h]	1032	0	0	1253	443	235
Peak Hour Factor	0.9780	1.0000	1.0000	0.9780	0.9780	0.9780
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	264	0	0	320	113	60
Total Analysis Volume [veh/h]	1055	0	0	1281	453	240
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.22	0.00	0.00	0.27	0.14	0.22
Intersection LOS	A					
Intersection V/C	0.583					

5010 Azusa Canyon Road

Vistro File: G:\...\AMEPi.vistro

Scenario 3 Future Baseline Plus Cumulative Projects With Project

Report File: G:\...\amOYPCi.pdf

12/5/2018

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 Fwy SB Onramp at Live Oak Ave	Signalized	ICU 1	WB Thru	0.683	-	B
2	I-605 Fwy NB Ramps at Live Oak Ave	Signalized	ICU 1	WB Thru	0.941	-	E
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	WB Thru	0.958	-	E
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	WB Thru	0.970	-	E

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 Fwy SB Onramp at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.683

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	278	521	608	1306
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	59	62	133	206	535
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	59	346	664	826	1867
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	15	87	166	207	467
Total Analysis Volume [veh/h]	0	59	346	664	826	1867
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.11	0.00	0.26	0.58
Intersection LOS	B					
Intersection V/C	0.683					

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.941

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	401	0	0	495	0	121	0	0	246	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	915	0	0	972	0	405	0	0	1720	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	0	0	243	0	101	0	0	430	0
Total Analysis Volume [veh/h]	0	0	0	0	0	972	0	405	0	0	1720	0
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	0	2	0	0	6	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.13	0.00	0.00	0.54	0.00
Intersection LOS	E											
Intersection V/C	0.941											

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.958

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	708	4	125	10	4	8	5	806	97	91	1810	9
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	26	0	22	0	0	0	0	277	123	50	114	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	748	4	150	10	4	8	5	1099	222	143	1960	9
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	187	1	38	3	1	2	1	275	56	36	490	2
Total Analysis Volume [veh/h]	748	4	150	10	4	8	5	1099	222	143	1960	9
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.23	0.24	0.09	0.01	0.01	0.01	0.00	0.28	0.28	0.09	0.61	0.01
Intersection LOS	E											
Intersection V/C	0.958											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.970

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	170	641	66	96	510	465	356	530	59	68	1131	106
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	10	18	16	65	7	47	25	279	5	2	117	10
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	183	672	83	163	527	521	388	820	65	71	1271	118
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	46	168	21	41	132	130	97	205	16	18	318	30
Total Analysis Volume [veh/h]	183	672	83	163	527	521	388	820	65	71	1271	118
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.11	0.24	0.24	0.10	0.16	0.20	0.12	0.18	0.18	0.04	0.40	0.07
Intersection LOS	E											
Intersection V/C	0.970											

5010 Azusa Canyon Road

Vistro File: G:\...\SH-AMEi.vistro
Report File: G:\...\FBCPi AM (Int 15-16).pdf

Scenario 6 Future Baseline Plus Cumulative Plus Project
7/14/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	ICU 1	WB Thru	0.765	-	C

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.765

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	408	589	0	679	1019	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	33	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	230	527	0	168	126	0
Total Hourly Volume [veh/h]	679	1128	0	861	1165	0
Peak Hour Factor	0.9630	0.9630	1.0000	0.9630	0.9630	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	176	0	0	224	302	0
Total Analysis Volume [veh/h]	705	0	0	894	1210	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	60
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.22	0.00	0.00	0.19	0.38	0.00
Intersection LOS	C					
Intersection V/C	0.765					

5010 Azusa Canyon Road

Vistro File: G:\...\PMEP.vistro

Scenario 3 Future Baseline Plus Cumulative Projects With Project

Report File: G:\...\pmOYPC.pdf

6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 Fwy SB Onramp at Live Oak Ave	Signalized	ICU 1	WB Left	1.123	-	F
2	I-605 Fwy NB Ramps at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Right	1.873	425.8	F
3	Graham Access Rd at Live Oak Ave	Signalized	ICU 1	EB Thru	0.779	-	C
4	Live Oak Ln at Live Oak Ave	Two-way stop	HCM 6th Edition	SB Left	0.173	190.4	F
5	Rivergrade Rd at Live Oak Ave	Signalized	ICU 1	EB Thru	1.107	-	F
6	Stewart Ave at Live Oak Ave	Signalized	ICU 1	EB Thru	0.998	-	E
7	Baldwin Park Blvd at Live Oak Ave	Signalized	ICU 1	EB Thru	0.979	-	E
8	Arrow Hwy at Live Oak Ave	Signalized	ICU 1	EB Thru	1.062	-	F
9	Maine Ave at Arrow Hwy	Signalized	ICU 1	EB Thru	1.042	-	F
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	EB Thru	1.091	-	F
11	Azusa Canyon Rd at Sandstone St	Two-way stop	HCM 6th Edition	WB Thru	0.000	22.0	C
12	Azusa Canyon Rd at Nubia St	Two-way stop	HCM 6th Edition	EB Thru	0.000	23.8	C
13	4th St at Arrow Hwy	Signalized	ICU 1	EB Thru	0.713	-	C
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	EB Thru	0.915	-	E

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 Fwy SB Onramp at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.123

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	1183	1209	549	898
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	95	92	484	427	213
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	95	1299	1717	987	1129
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	24	325	429	247	282
Total Analysis Volume [veh/h]	0	95	1299	1717	987	1129
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.41	0.00	0.62	0.35
Intersection LOS	F					
Intersection V/C	1.123					

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	425.8
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.873

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	140	0	0	202	0	187	0	0	438	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	725	0	0	733	0	1394	0	0	1383	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	181	0	0	183	0	349	0	0	346	0
Total Analysis Volume [veh/h]	0	0	725	0	0	733	0	1394	0	0	1383	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	1.87	0.00	0.00	1.87	0.00	0.01	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	423.86	0.00	0.00	425.85	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			F			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	47.80	0.00	0.00	48.39	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	1194.90	0.00	0.00	1209.63	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	423.86			425.85			0.00			0.00		
Approach LOS	F			F			A			A		
d_I, Intersection Delay [s/veh]	146.27											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 3: Graham Access Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.779

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	10	10	1749	8	11	916
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	327	0	0	438
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	10	10	2111	8	11	1372
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	3	3	528	2	3	343
Total Analysis Volume [veh/h]	10	10	2111	8	11	1372
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.01	0.66	0.01	0.01	0.43
Intersection LOS	C					
Intersection V/C	0.779					

Intersection Level Of Service Report
Intersection 4: Live Oak Ln at Live Oak Ave

Control Type:	Two-way stop	Delay (sec / veh):	190.4
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.173

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	4	34	39	1735	893	7
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	327	438	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	4	35	40	2097	1349	7
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	1	9	10	524	337	2
Total Analysis Volume [veh/h]	4	35	40	2097	1349	7
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Priority Scheme	Stop	Free	Free
Flared Lane			
Storage Area [veh]	0	0	0
Two-Stage Gap Acceptance	No		
Number of Storage Spaces in Median	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.17	0.09	0.08	0.02	0.01	0.00
d_M, Delay for Movement [s/veh]	190.36	14.88	12.60	0.00	0.00	0.00
Movement LOS	F	B	B	A	A	A
95th-Percentile Queue Length [veh/ln]	0.52	0.29	0.25	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	12.88	7.16	6.31	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	32.88		0.24		0.00	
Approach LOS	D		A		A	
d_I, Intersection Delay [s/veh]	0.51					
Intersection LOS	F					

Intersection Level Of Service Report
Intersection 5: Rivergrade Rd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.107

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	118	182	508	15	18	59	44	1701	30	95	715	22
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	2	3	0	2	99	113	214	0	3	339	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	120	188	521	15	20	159	158	1949	31	100	1068	22
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	30	47	130	4	5	40	40	487	8	25	267	6
Total Analysis Volume [veh/h]	120	188	521	15	20	159	158	1949	31	100	1068	22
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.08	0.12	0.33	0.01	0.01	0.10	0.10	0.61	0.02	0.06	0.33	0.01
Intersection LOS	F											
Intersection V/C	1.107											

Intersection Level Of Service Report
Intersection 6: Stewart Ave at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.998

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	53	29	17	134	181	14	31	2049	312	36	670	16
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	2	3	0	2	0	0	217	0	3	342	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	54	32	20	137	187	14	32	2307	318	40	1025	16
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	14	8	5	34	47	4	8	577	80	10	256	4
Total Analysis Volume [veh/h]	54	32	20	137	187	14	32	2307	318	40	1025	16
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	2	0	0	6	0	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.07	0.07	0.09	0.12	0.01	0.02	0.72	0.20	0.03	0.32	0.01
Intersection LOS	E											
Intersection V/C	0.998											

Intersection Level Of Service Report
Intersection 7: Baldwin Park Blvd at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.979

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	96	0	131	0	0	0	0	1469	599	312	596	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	0.00	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00
Growth Rate	1.02	1.00	1.02	1.02	1.02	1.02	1.00	1.02	1.02	1.02	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	7	5	11	29	7	29	24	182	14	33	309	24
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	105	5	145	29	7	29	24	1680	625	351	917	24
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	1	36	7	2	7	6	420	156	88	229	6
Total Analysis Volume [veh/h]	105	5	145	29	7	29	24	1680	625	351	917	24
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.03	0.09	0.09	0.02	0.04	0.04	0.02	0.53	0.39	0.22	0.29	0.02
Intersection LOS	E											
Intersection V/C	0.979											

Intersection Level Of Service Report
Intersection 8: Arrow Hwy at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.062

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	1108	136	53	1616	796	449
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	47	65	98	124	301	92
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1177	204	152	1772	1113	550
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000
Total 15-Minute Volume [veh/h]	294	51	38	443	278	0
Total Analysis Volume [veh/h]	1177	204	152	1772	1113	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Unsignalized
Signal group	1	0	0	8	4	0
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.37	0.13	0.10	0.55	0.35	0.00
Intersection LOS	F					
Intersection V/C	1.062					

Intersection Level Of Service Report
Intersection 9: Maine Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.042

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	223	81	2398	341	72	1022
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	5	0	166	5	0	388
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	232	83	2612	353	73	1430
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	58	21	653	88	18	358
Total Analysis Volume [veh/h]	232	83	2612	353	73	1430
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	Lead	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.05	0.82	0.22	0.05	0.30
Intersection LOS	F					
Intersection V/C	1.042					

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.091

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	128	7	247	26	20	22	9	2000	299	141	995	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	109	0	42	0	0	0	0	128	32	22	276	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	240	7	294	27	20	22	9	2168	337	166	1291	14
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	60	2	74	7	5	6	2	542	84	42	323	4
Total Analysis Volume [veh/h]	240	7	294	27	20	22	9	2168	337	166	1291	14
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.08	0.08	0.18	0.02	0.03	0.03	0.01	0.68	0.21	0.10	0.40	0.01
Intersection LOS	F											
Intersection V/C	1.091											

Intersection Level Of Service Report
Intersection 11: Azusa Canyon Rd at Sandstone St

Control Type:	Two-way stop	Delay (sec / veh):	22.0
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.000

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	9	371	0	0	459	12	10	0	5	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	72	0	3	51	0	0	0	0	5	0	79
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	14	1	12	8	0	0	0	0	2	0	13
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	9	464	1	15	527	12	10	0	5	7	0	92
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	2	116	0	4	132	3	3	0	1	2	0	23
Total Analysis Volume [veh/h]	9	464	1	15	527	12	10	0	5	7	0	92
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.01	0.00	0.00	0.01	0.01	0.00	0.04	0.00	0.01	0.02	0.00	0.12
d_M, Delay for Movement [s/veh]	8.49	0.00	0.00	8.30	0.00	0.00	20.63	21.45	10.45	18.54	21.98	10.51
Movement LOS	A	A	A	A	A	A	C	C	B	C	C	B
95th-Percentile Queue Length [veh/ln]	0.03	0.00	0.00	0.04	0.00	0.00	0.15	0.15	0.15	0.50	0.50	0.50
95th-Percentile Queue Length [ft/ln]	0.65	0.00	0.00	1.03	0.00	0.00	3.81	3.81	3.81	12.46	12.46	12.46
d_A, Approach Delay [s/veh]	0.16			0.22			17.24			11.08		
Approach LOS	A			A			C			B		
d_I, Intersection Delay [s/veh]	1.36											
Intersection LOS	C											

Intersection Level Of Service Report
Intersection 12: Azusa Canyon Rd at Nubia St

Control Type:	Two-way stop	Delay (sec / veh):	23.8
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.000

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	42	323	0	0	462	26	51	0	99	0	0	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	35	0	0	56	0	0	0	0	8	0	37
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	43	364	0	0	527	27	52	0	101	8	0	37
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	91	0	0	132	7	13	0	25	2	0	9
Total Analysis Volume [veh/h]	43	364	0	0	527	27	52	0	101	8	0	37
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Free	Free	Stop	Stop
Flared Lane			No	No
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance			No	No
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.04	0.00	0.00	0.00	0.01	0.00	0.20	0.00	0.14	0.03	0.00	0.04
d_M, Delay for Movement [s/veh]	8.66	0.00	0.00	7.99	0.00	0.00	22.75	23.80	13.80	18.82	20.89	9.78
Movement LOS	A	A	A	A	A	A	C	C	B	C	C	A
95th-Percentile Queue Length [veh/ln]	0.13	0.00	0.00	0.00	0.00	0.00	1.46	1.46	1.46	0.24	0.24	0.24
95th-Percentile Queue Length [ft/ln]	3.28	0.00	0.00	0.00	0.00	0.00	36.50	36.50	36.50	5.97	5.97	5.97
d_A, Approach Delay [s/veh]	0.92			0.00			16.84			11.39		
Approach LOS	A			A			C			B		
d_I, Intersection Delay [s/veh]	2.99											
Intersection LOS	C											

Intersection Level Of Service Report
Intersection 13: 4th St at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.713

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	161	2	46	8	6	21	8	2181	87	63	1000	6
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	170	0	0	298	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	164	2	47	8	6	21	8	2395	89	64	1318	6
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	41	1	12	2	2	5	2	599	22	16	330	2
Total Analysis Volume [veh/h]	164	2	47	8	6	21	8	2395	89	64	1318	6
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.05	0.05	0.03	0.01	0.02	0.02	0.01	0.50	0.06	0.04	0.41	0.00
Intersection LOS	C											
Intersection V/C	0.713											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.915

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	96	510	90	208	698	322	430	1658	120	99	588	70
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	7	8	2	16	18	25	40	125	11	14	273	14
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	105	528	94	228	730	353	479	1816	133	115	873	85
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	132	24	57	183	88	120	454	33	29	218	21
Total Analysis Volume [veh/h]	105	528	94	228	730	353	479	1816	133	115	873	85
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Overlap	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	6	3	8	0	7	4	0
Auxiliary Signal Groups						3,6						
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.19	0.19	0.14	0.23	0.07	0.15	0.41	0.41	0.07	0.30	0.30
Intersection LOS	E											
Intersection V/C	0.915											

5010 Azusa Canyon Road

Vistro File: G:\...\SH-PME.vistro
Report File: G:\...\FBCP PM (Int 15-16).pdf

Scenario 6 Future Baseline Plus Cumulative Plus Project
7/14/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	ICU 1	EB Thru	0.788	-	C
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	ICU 1	SB Thru	0.592	-	A

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.788

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	259	241	0	1156	408	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	209	202	0	615	53	0
Total Hourly Volume [veh/h]	473	448	0	1794	469	0
Peak Hour Factor	0.9740	0.9740	1.0000	0.9740	0.9740	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	121	0	0	460	120	0
Total Analysis Volume [veh/h]	486	0	0	1842	482	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.30	0.00	0.00	0.38	0.15	0.00
Intersection LOS	C					
Intersection V/C	0.788					

Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.592

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	864	0	0	1501	217	208
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.02	1.00	1.00	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	1	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	28	0	0	15	66	0
Total Hourly Volume [veh/h]	909	0	0	1546	288	212
Peak Hour Factor	0.9720	1.0000	1.0000	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	234	0	0	398	74	55
Total Analysis Volume [veh/h]	935	0	0	1591	296	218
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.19	0.00	0.00	0.33	0.09	0.16
Intersection LOS	A					
Intersection V/C	0.592					

5010 Azusa Canyon Road

Vistro File: G:\...\PMEPi.vistro

Scenario 3 Future Baseline Plus Cumulative Projects With Project

Report File: G:\...\pmOYPCi.pdf

6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 Fwy SB Onramp at Live Oak Ave	Signalized	ICU 1	EB Thru	0.814	-	D
2	I-605 Fwy NB Ramps at Live Oak Ave	Signalized	ICU 1	EB Thru	0.765	-	C
10	Azusa Canyon Rd at Arrow Hwy	Signalized	ICU 1	EB Thru	0.936	-	E
14	Irwindale Ave at Arrow Hwy	Signalized	ICU 1	EB Thru	0.915	-	E

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 Fwy SB Onramp at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.814

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	1183	1209	549	898
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	95	92	484	427	213
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	95	1299	1717	987	1129
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	24	325	429	247	282
Total Analysis Volume [veh/h]	0	95	1299	1717	987	1129
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Permissive	Permissive
Signal group	5	0	8	0	0	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.41	0.00	0.31	0.35
Intersection LOS	D					
Intersection V/C	0.814					

Intersection Level Of Service Report
Intersection 2: I-605 Fwy NB Ramps at Live Oak Ave

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.765

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	140	0	0	202	0	187	0	0	438	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	725	0	0	733	0	1394	0	0	1383	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	0	0	0	183	0	349	0	0	346	0
Total Analysis Volume [veh/h]	0	0	0	0	0	733	0	1394	0	0	1383	0
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	0	2	0	0	6	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.44	0.00	0.00	0.43	0.00
Intersection LOS	C											
Intersection V/C	0.765											

Intersection Level Of Service Report
Intersection 10: Azusa Canyon Rd at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.936

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	128	7	247	26	20	22	9	2000	299	141	995	14
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	109	0	42	0	0	0	0	128	32	22	276	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	240	7	294	27	20	22	9	2168	337	166	1291	14
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	60	2	74	7	5	6	2	542	84	42	323	4
Total Analysis Volume [veh/h]	240	7	294	27	20	22	9	2168	337	166	1291	14
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Split	Split	Split	Split	Split	Split	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	0	2	0	0	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.08	0.08	0.18	0.02	0.03	0.03	0.01	0.52	0.52	0.10	0.40	0.01
Intersection LOS	E											
Intersection V/C	0.936											

Intersection Level Of Service Report
Intersection 14: Irwindale Ave at Arrow Hwy

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.915

Intersection Setup

Name												
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	96	510	90	208	698	322	430	1658	120	99	588	70
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Growth Rate	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	7	8	2	16	18	25	40	125	11	14	273	14
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	105	528	94	228	730	353	479	1816	133	115	873	85
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	132	24	57	183	88	120	454	33	29	218	21
Total Analysis Volume [veh/h]	105	528	94	228	730	353	479	1816	133	115	873	85
Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

Control Type	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss	Protecte	Permiss	Permiss
Signal group	5	2	0	1	6	0	3	8	0	7	4	0
Auxiliary Signal Groups												
Lead / Lag	Lead	-	-	Lead	-	-	Lead	-	-	Lead	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.07	0.19	0.19	0.14	0.23	0.22	0.15	0.41	0.41	0.07	0.27	0.05
Intersection LOS	E											
Intersection V/C	0.915											

5010 Azusa Canyon Road

Vistro File: G:\...\SH-PMEi.vistro
Report File: G:\...\FBCPi PM (Int 15-16).pdf

Scenario 6 Future Baseline Plus Cumulative Plus Project
7/14/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	ICU 1	EB Thru	0.636	-	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	-
Analysis Method:	ICU 1	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.636

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	259	241	0	1156	408	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	209	202	0	615	53	0
Total Hourly Volume [veh/h]	473	448	0	1794	469	0
Peak Hour Factor	0.9740	0.9740	1.0000	0.9740	0.9740	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	121	0	0	460	120	0
Total Analysis Volume [veh/h]	486	0	0	1842	482	0
Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Cycle Length [s]	100
Lost time [s]	10.00

Phasing & Timing

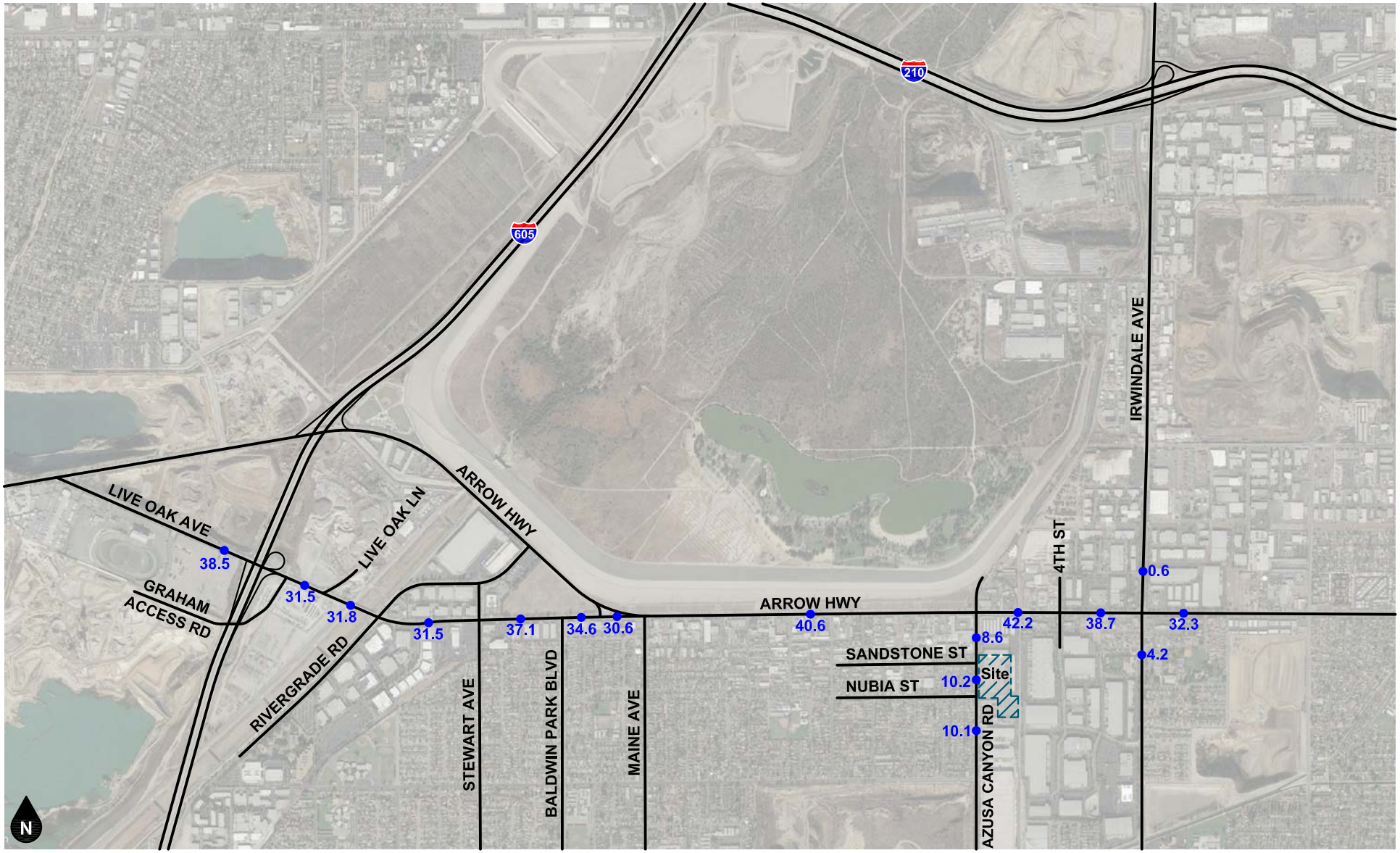
Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.15	0.00	0.00	0.38	0.15	0.00
Intersection LOS	B					
Intersection V/C	0.636					

APPENDIX E

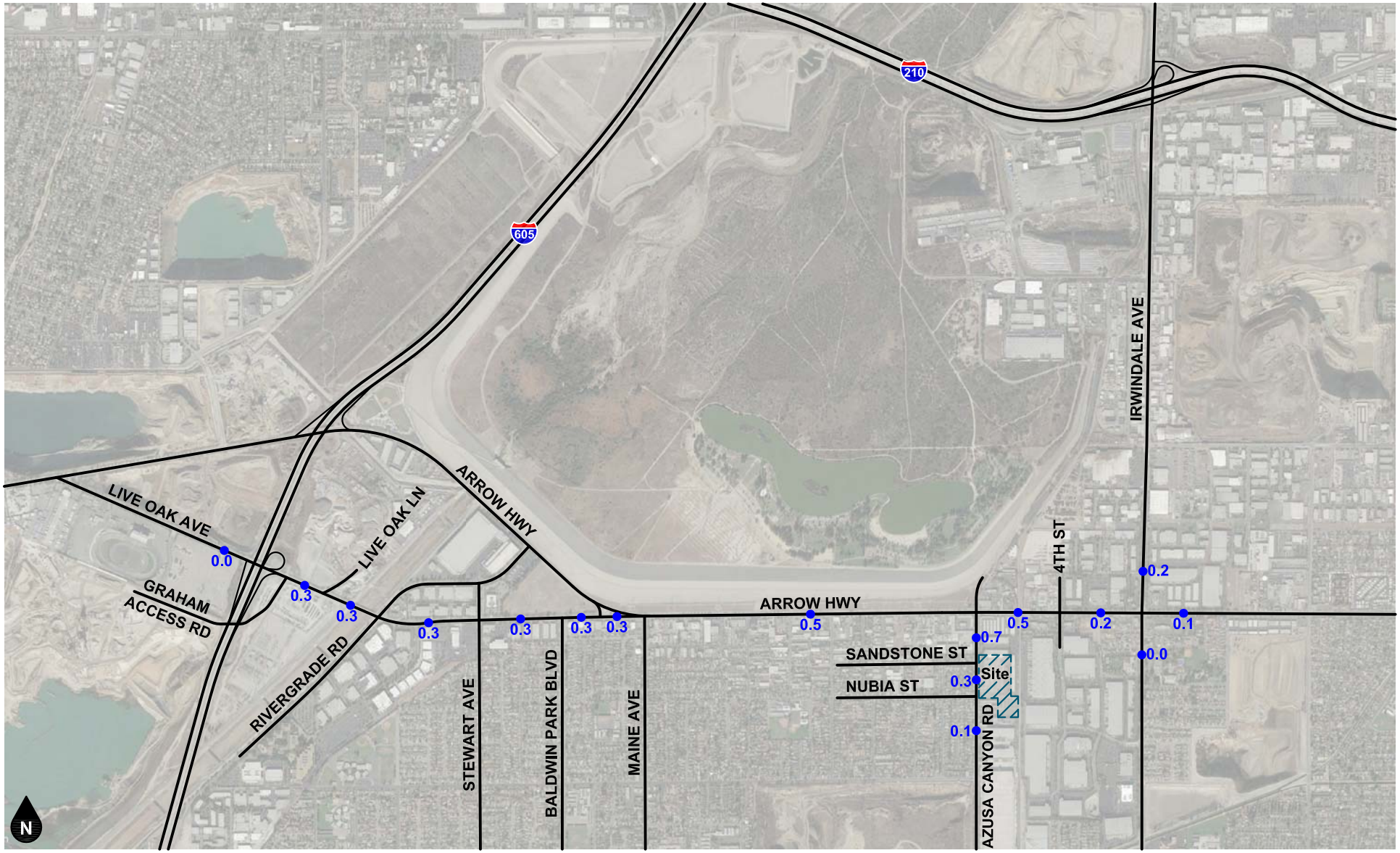
AVERAGE DAILY TRAFFIC VOLUMES



Legend

●## Vehicles Per Day (1,000's)

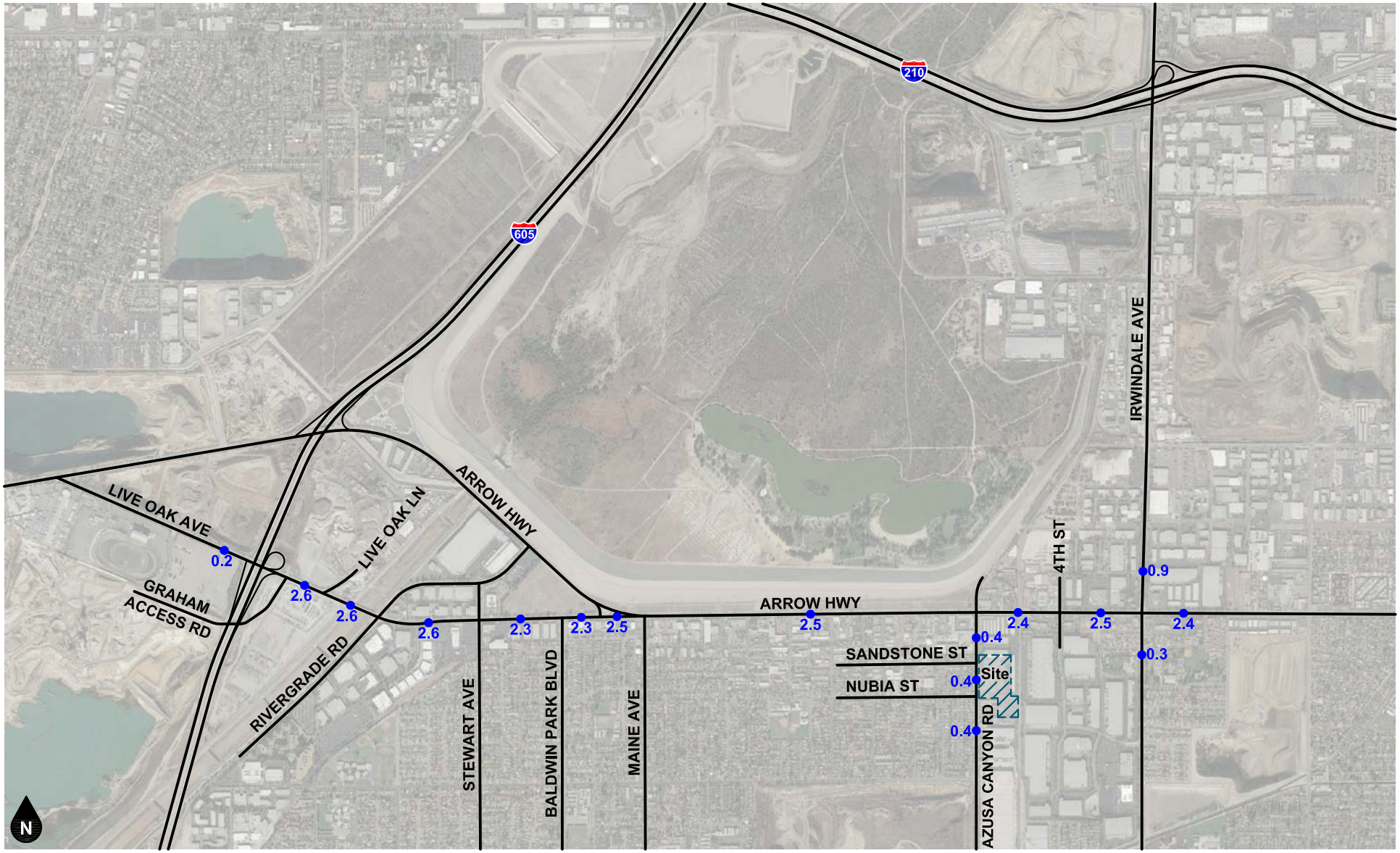
Figure E-1
Existing Average Daily Traffic Volumes



Legend

●## Vehicles Per Day (1,000's)

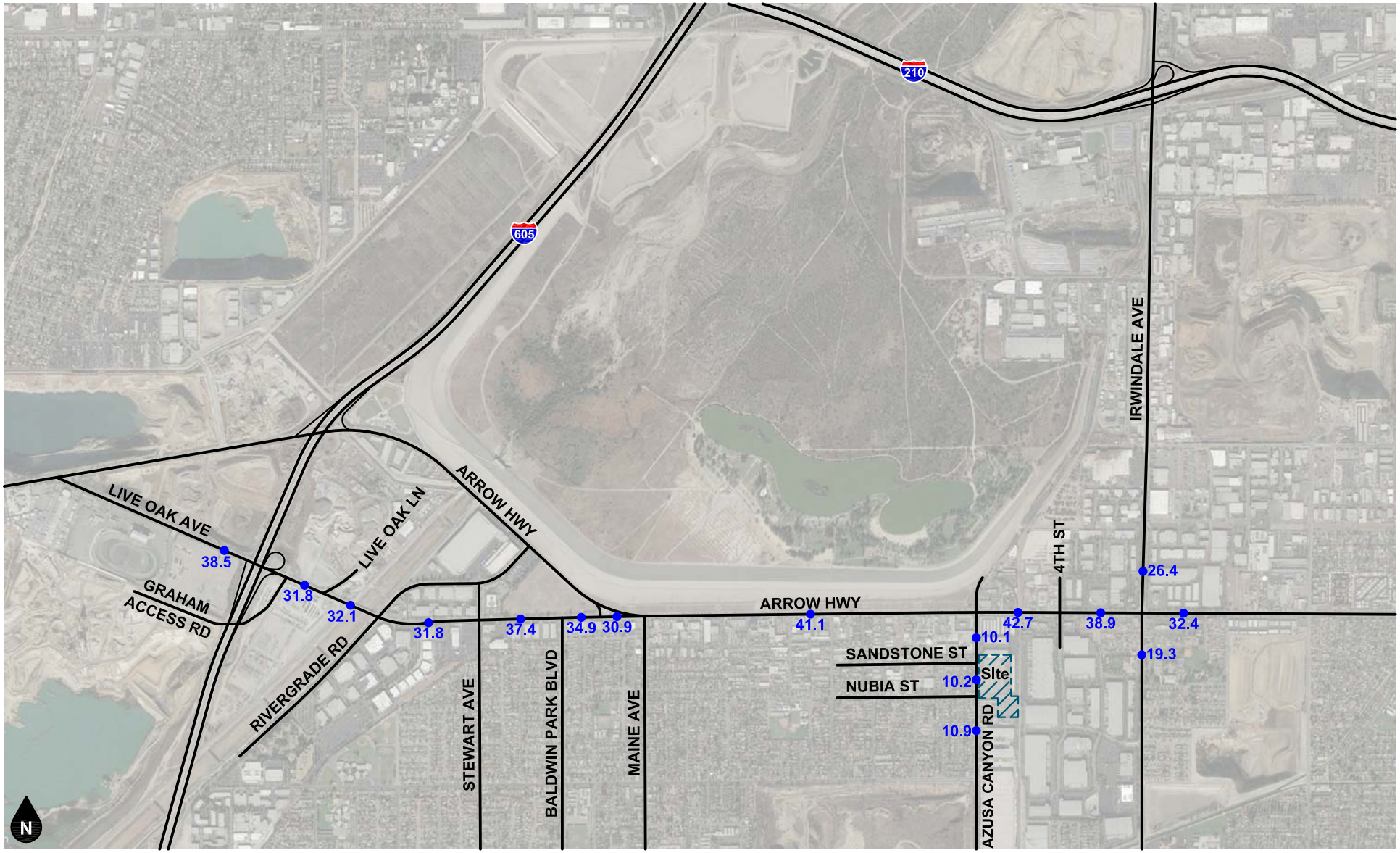
Figure E-2
Project Average Daily Traffic Volumes



Legend

●## Vehicles Per Day (1,000's)

Figure E-3
Other Cumulative Projects Average Daily Traffic Volumes



Legend

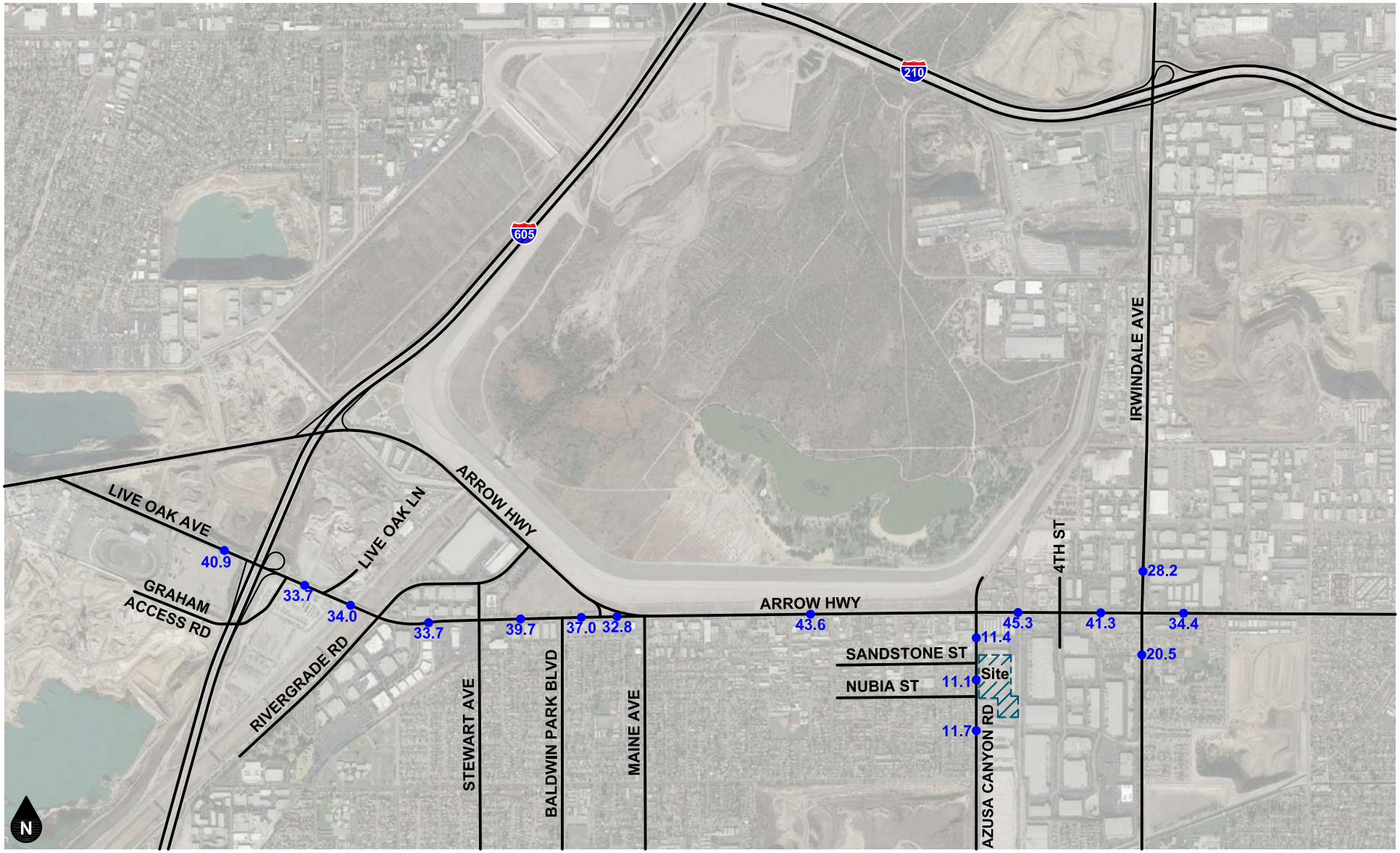
●## Vehicles Per Day (1,000's)

Figure E-4
Existing Plus Project Average Daily Traffic Volumes

Legend

●## Vehicles Per Day (1,000's)

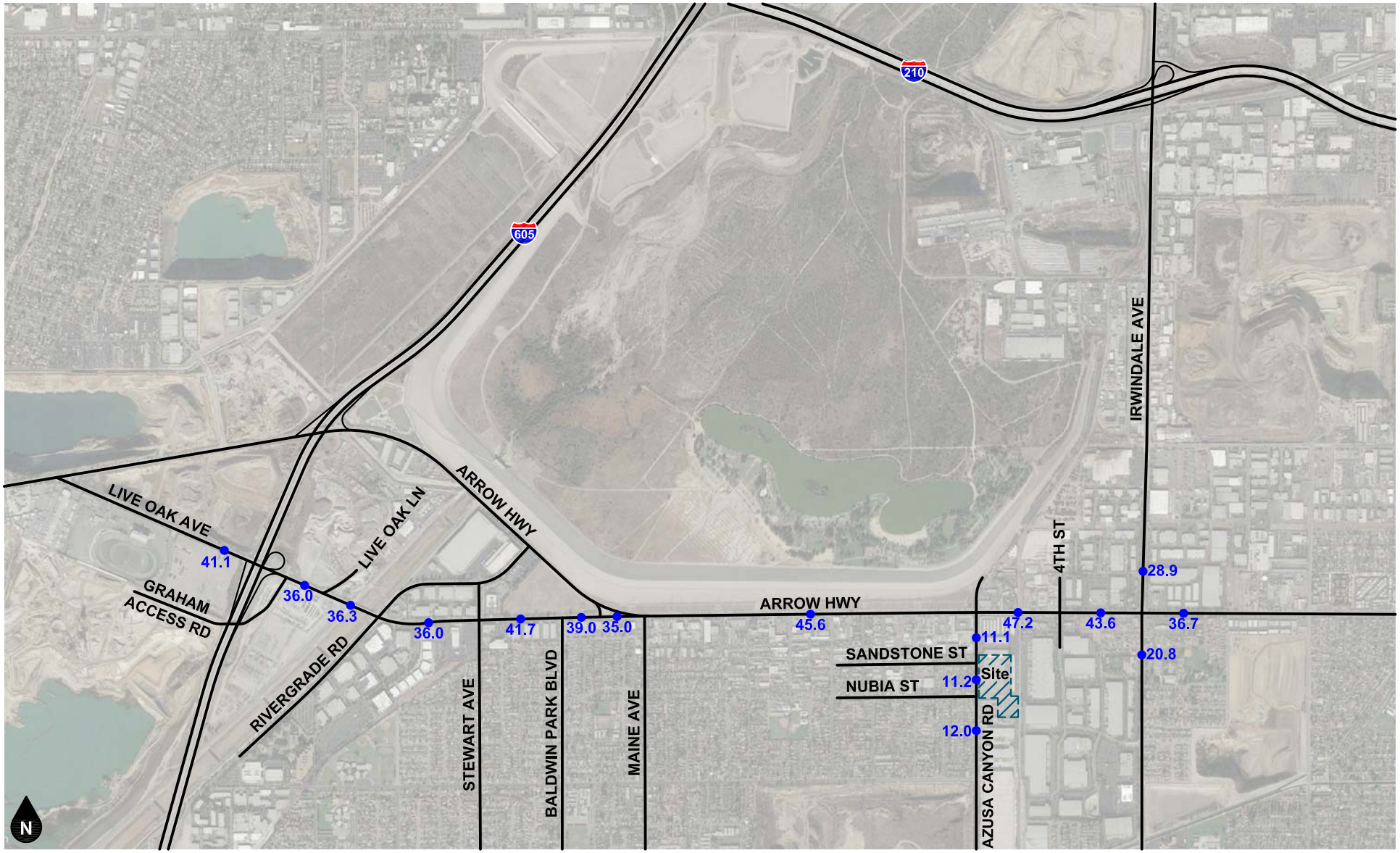
Figure E-5
Future Baseline Without Project Average Daily Traffic Volumes



Legend

●## Vehicles Per Day (1,000's)

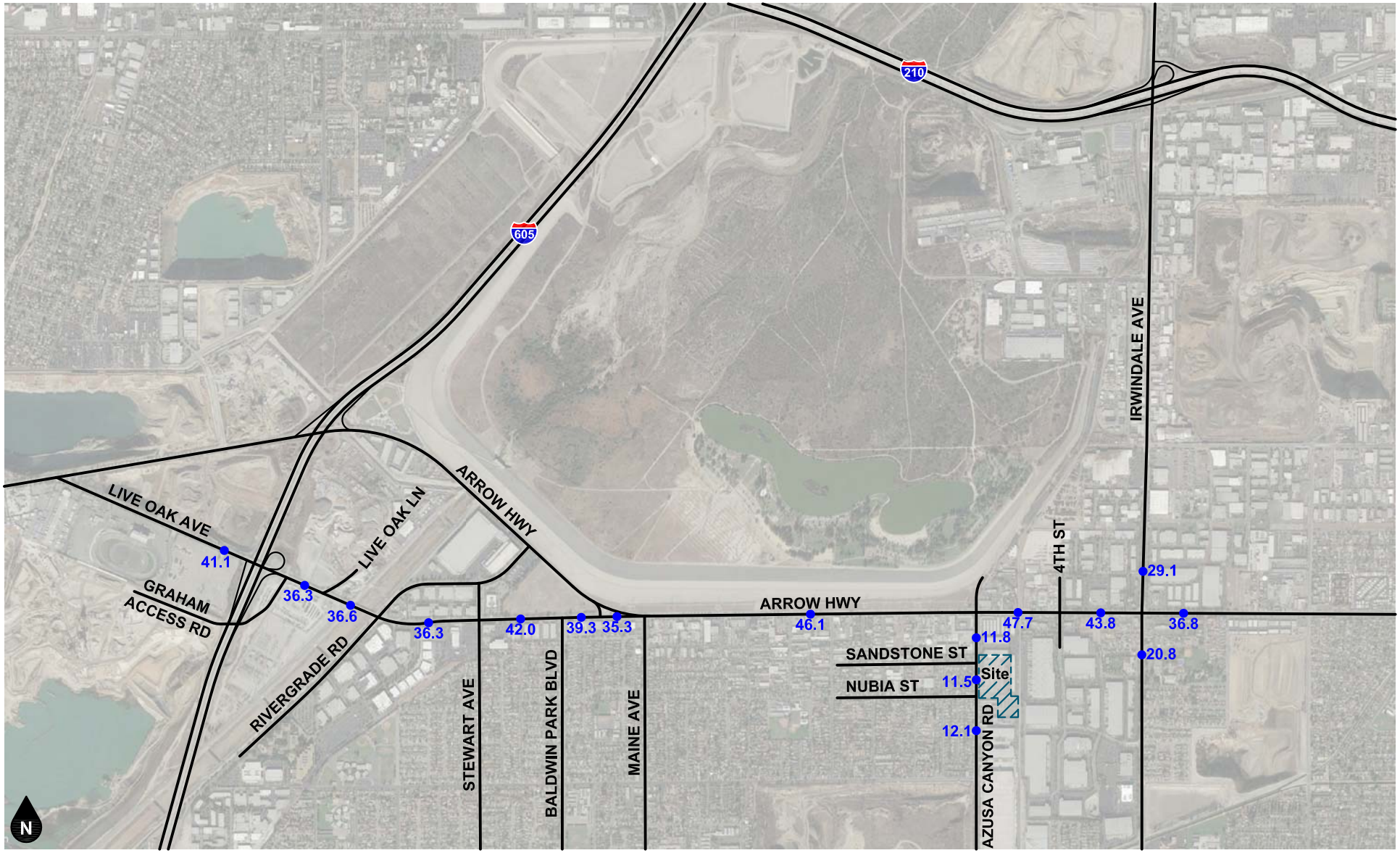
Figure E-6
Future Baseline With Project Average Daily Traffic Volumes



Legend

●## Vehicles Per Day (1,000's)

Figure E-7
Future Baseline Plus Cumulative Projects Without Project Average Daily Traffic Volumes



Legend

●## Vehicles Per Day (1,000's)

Figure E-8
Future Baseline Plus Cumulative Projects With Project Average Daily Traffic Volumes

APPENDIX F

TRAFFIC SIGNAL WARRANT WORKSHEETS

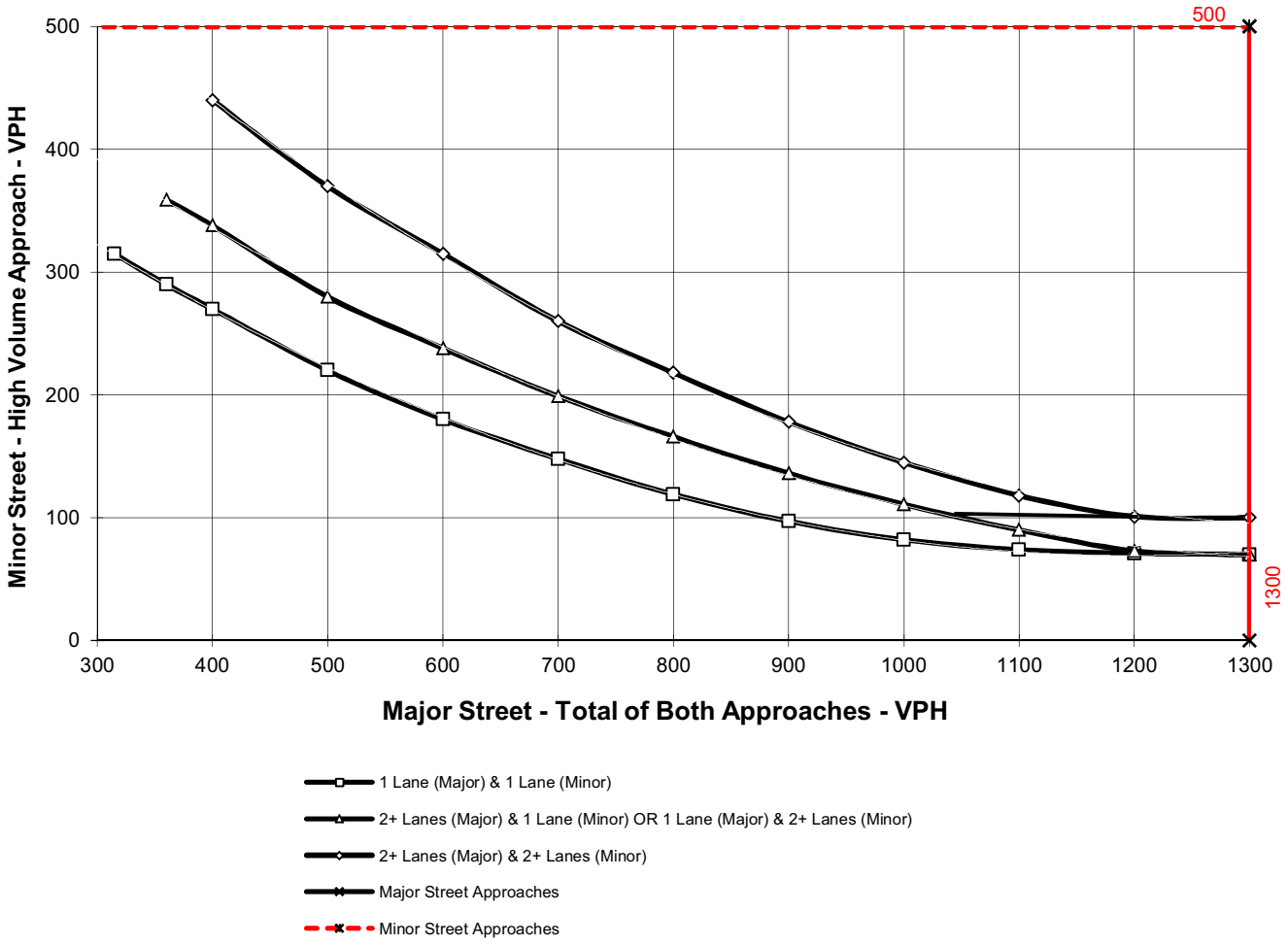
PEAK HOUR VOLUME WARRANT
(Rural Areas)

Existing

Major Street Name = **Live Oak Avenue**
Total of Both Approaches (VPH) = **2109**
Number of Approach Lanes Major Street = **2**

Minor Street Name = **I-605 Fwy NB Ramps**
High Volume Approach (VPH) = **521**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



** NOTE:
100 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACH WITH TWO OR MORE LANES AND 75 VPH APPLIES AS THE LOWER THRESHOLD VOLUME FOR A MINOR STREET APPROACHING WITH ONE LANE.

Based on California MUTCD, 2012 Edition
(FHWA's MUTCD 2009 Edition, as amended for use in California)

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 1 of 5)

Count Date: 11/1/2018

City of Irwindale	Azusa Canyon Road/Nubia Street	Calc: CP	Date: 12/1/2018
Jurisdiction	Intersection	Check: GG	Date: 12/5/2018

Major St: Azusa Canyon Road — Critical Approach Speed: 40 mph
Minor St: Nubia Street — Critical Approach Speed: n/A mph

Speed limit or critical speed on major street traffic > 40 mph ..... ☐
or
In built up area of isolated community of < 10,000 population ..... ☐
→ RURAL (R)

☑ URBAN (U)

WARRANT 1 - Eight Hour Vehicular Volume

SATISFIED ☐ YES ☑ NO

(Condition A or Condition B or Combination of A and B must be satisfied)

Condition A - Minimum Vehicle Volume

100% SATISFIED ☐ YES ☑ NO
80% SATISFIED ☐ YES ☑ NO

	MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)												
	Urban	Rural	Urban	Rural	5:00 PM	4:00 PM	3:00 PM	2:00 PM	6:00 PM	7:00 AM	8:00 AM	1:00 PM	Hour
APPROACH LANES	1		2 or More										
Both Approaches Major Street	500 (400)	350 (280)	600 (480)	420 (336)	796	792	773	642	626	989	625	475	
Highest Approach Minor Street	150 (120)	105 (84)	200 (160)	140 (112)	147	142	113	107	75	67	61	56	

Condition B - Interruption of Continuous Traffic

100% SATISFIED ☐ YES ☑ NO
80% SATISFIED ☐ YES ☑ NO

	MINIMUM REQUIREMENTS (80% SHOWN IN BRACKETS)												
	Urban	Rural	Urban	Rural	5:00 PM	4:00 PM	3:00 PM	2:00 PM	6:00 PM	7:00 AM	8:00 AM	1:00 PM	Hour
APPROACH LANES	1		2 or More										
Both Approaches Major Street	750 (600)	525 (420)	900 (720)	630 (504)	796	792	773	642	626	989	625	475	
Highest Approach Minor Street	75 (60)	53 (42)	100 (80)	70 (56)	147	142	113	107	75	67	61	56	

Combination of Conditions A & B

SATISFIED ☐ YES ☑ NO

REQUIREMENT	CONDITION	X	FULFILLED
TWO CONDITIONS SATISFIED 80%	A. Minimum Vehicular Volume		☐ YES ☑ NO
	AND, B. Interruption of Continuous Traffic		
AND, an adequate trial of other alternatives that could cause less delay and inconvenience to traffic has failed to solve the traffic problems			☐ YES ☑ NO

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 2 of 5)

WARRANT 2 - Four Hour Vehicular Volume

SATISFIED* ☐ YES ☑ NO

Record hourly vehicular volumes for any four hours of an average day.

APPROACH LANES	One	2 or More	5:00 PM	4:00 PM	3:00 PM	2:00 PM	Hour
Both Approaches - Major Street		X	796	792	773	642	
Higher Approach - Minor Street	X		147	142	113	107	

*All plotted points fall above the applicable curve in Figure 4C-1. (URBAN AREAS)	☐ YES	☑ NO
OR, All plotted points fall above the applicable curve in Figure 4C-2. (RURAL AREAS)	☐ YES	☑ NO

WARRANT 3 - Peak Hour

SATISFIED ☐ YES ☑ NO

(Part A or Part B must be satisfied)

PART A **SATISFIED** ☐ YES ☑ NO

(All parts 1, 2, and 3 below must be satisfied for the same one hour, for any four consecutive 15-minute periods)

1. The total delay experienced by traffic on one minor street approach (one direction only) controlled by a STOP sign equals or exceeds four vehicle-hours for a one-lane approach, or five vehicle-hours for a two-lane approach; AND	☐ YES	☑ NO
2. The volume on the same minor street approach (one direction only) equals or exceeds 100 vph for one moving lane of traffic or 150 vph for two moving lanes; AND	☑ YES	☐ NO
3. The total entering volume serviced during the hour equals or exceeds 800 vph for intersections with four or more approaches or 650 vph for intersections with three approaches	☑ YES	☐ NO

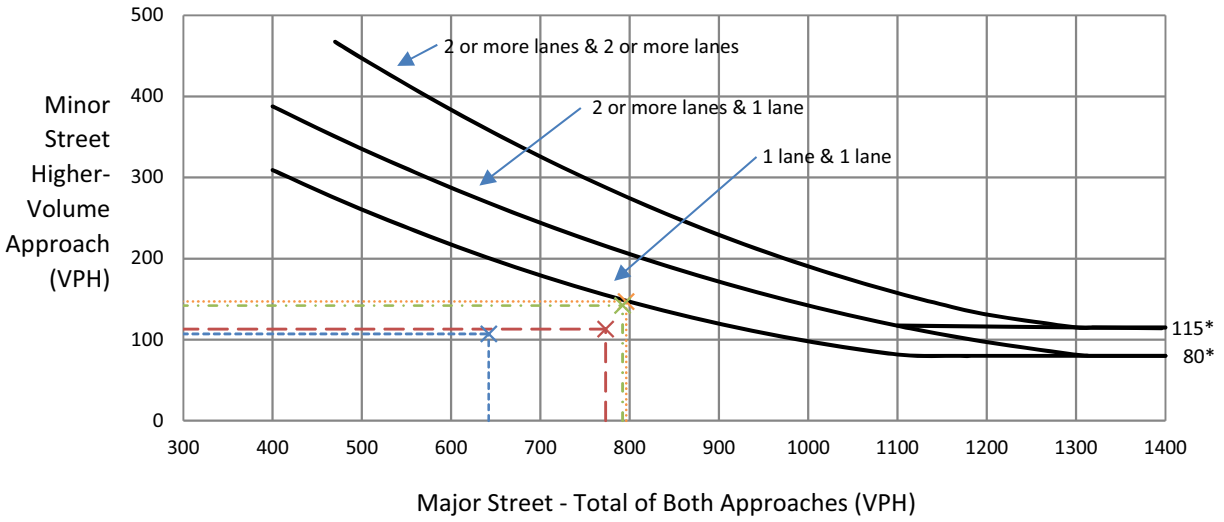
PART B **SATISFIED** ☐ YES ☑ NO

APPROACH LANES	One	2 or More	5:00 PM
Both Approaches - Major Street		X	796
Higher Approach - Minor Street	X		147

The plotted point falls above the applicable curve in Figure 4C-3. (URBAN AREAS)	☐ YES	☑ NO
OR, The plotted point falls above the applicable curve in Figure 4C-4. (RURAL AREAS)	☐ YES	☑ NO

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-1. Warrant 2, Four-Hour Vehicular Volume

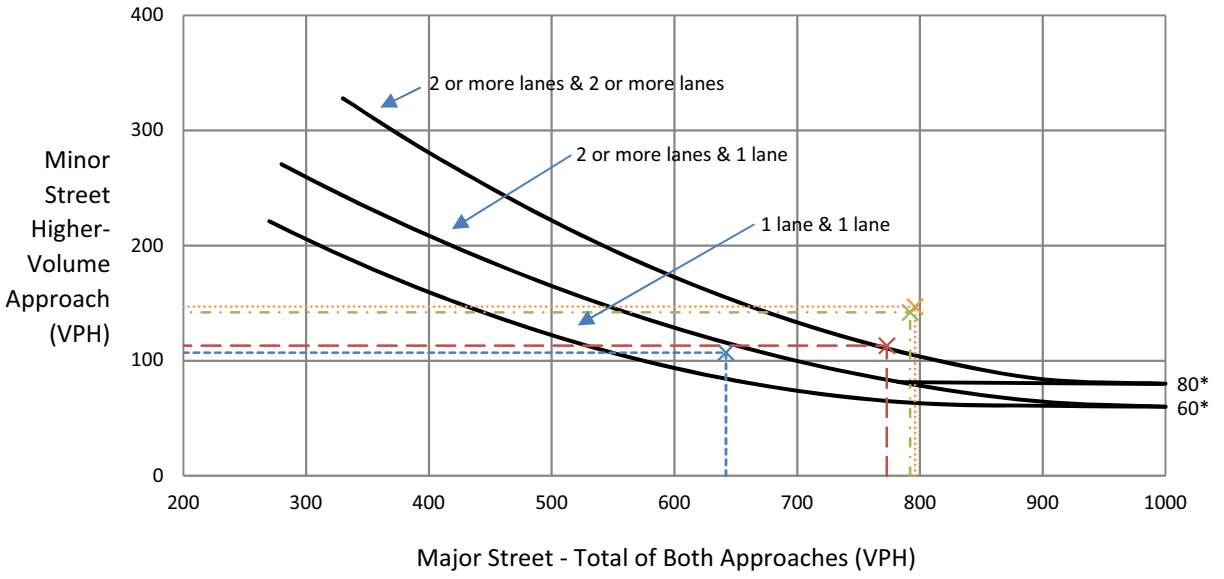


Traffic Signal Warrant Is NOT Satisfied

*Note: 115 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor street approach with one lane.

Figure 4C-2. Warrant 2, Four-Hour Vehicular Volume (70% Factor)

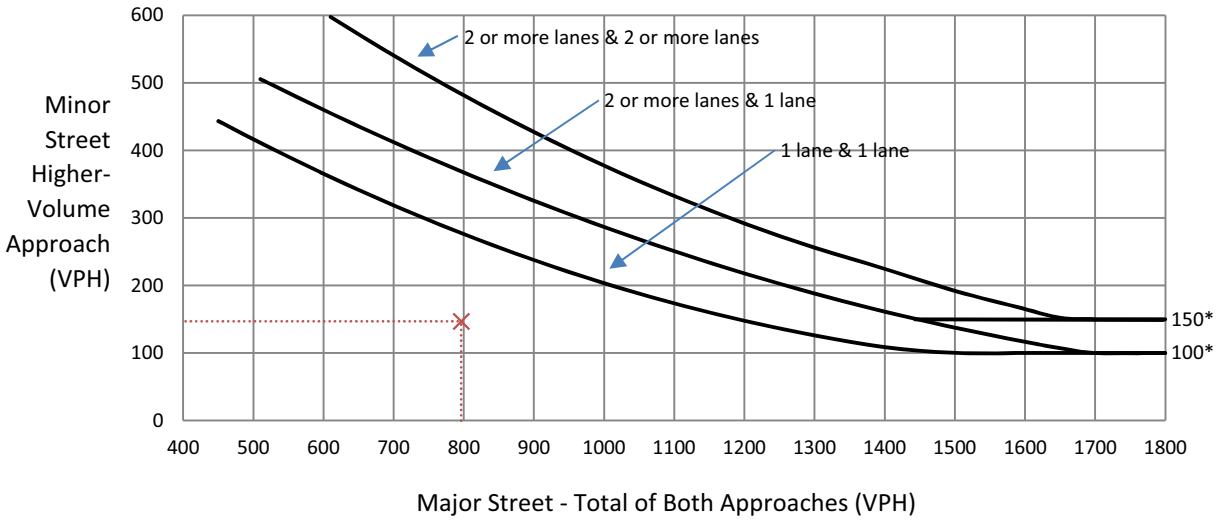
(Community less than 10,000 population or above 40 mph on the major street)



This figure is not applicable; see Figure 4C-1 above.

*Note: 80 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 60 vph applies as the lower threshold volume for a minor street approach with one lane.

Figure 4C-3. Warrant 3, Peak Hour Vehicular Volume

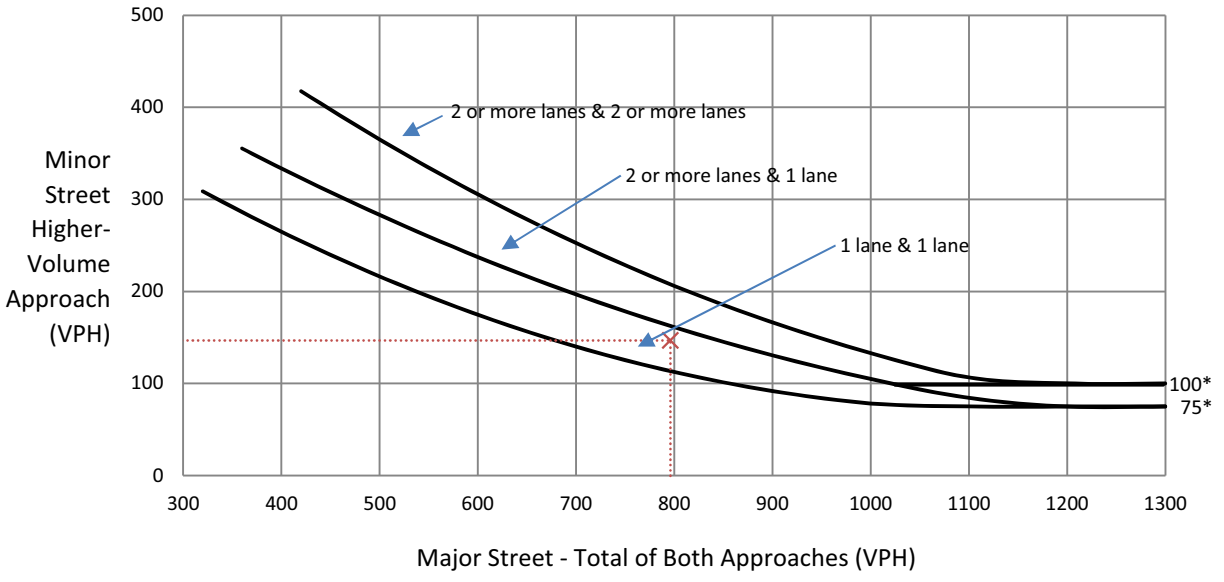


Traffic Signal Warrant Is NOT Satisfied

*Note: 150 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with one lane.

Figure 4C-4. Warrant 3, Peak Hour Vehicular Volume (70% Factor)

(Community less than 10,000 population or above 40 mph on the major street)



This figure is not applicable; see Figure 4C-3 above.

*Note: 100 vph applies as the lower threshold volume for a minor street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor street approach with one lane.

Figure 4C-101 (CA). Traffic Signal Warrants Worksheet (Sheet 4 of 5)

WARRANT 7 - Crash Experience Warrant **SATISFIED** ☐ YES ☑ NO
(All Parts Must Be Satisfied)

Adequate trial of alternatives with satisfactory observance and enforcement has failed to reduce the crash frequency.			☐ YES ☑ NO
REQUIREMENTS	Number of crashes reported within a 12 month period susceptible to correction by a traffic signal, and involving injury or damage exceeding the requirements for a reportable crash.		☐ YES ☑ NO
5 OR MORE	**4**		
REQUIREMENTS	CONDITIONS	✓	
ONE CONDITION SATISFIED 80%	Warrant 1, Condition A - Minimum Vehicular Volume		☐ YES ☑ NO
	OR, Warrant 1, Condition B - Interruption of Continuous Traffic		
	OR. Warrant 4, Pedestrian Volume Condition - Ped Vol ≥ 152 for any hour OR, Ped Vol ≥ 80 for any 4 hours		

Table F-1
5-Year Collision Summary at Azusa Canyon Road/Nubia Street[1]

Date	Intersection	Collision Type	Primary Collision Factor	Pre-collision Movement[2]		Susceptible to Correction by Traffic Signal?
				Vehicle 1	Vehicle 2	
08/01/2013	Azusa Canyon Road/Nubia Street	Head-On	R-O-W Auto	EBL	SBT	Yes
12/22/2013	Azusa Canyon Road/Nubia Street	Rear End	Lane Change	SBT	Parked	No
12/14/2015	Azusa Canyon Road/Nubia Street	Broadside	R-O-W Auto	EBL	SBT	Yes
05/04/2016	Azusa Canyon Road/Nubia Street	Broadside	R-O-W Auto	EBL	SBT	Yes
05/19/2016	Azusa Canyon Road/Nubia Street	Head-On	R-O-W Auto	NBL	SBT	Unlikely[3]
06/09/2016	Azusa Canyon Road/Nubia Street	Broadside	R-O-W Auto	EBL	NBT or SBT	Yes
10/06/2016	Azusa Canyon Road/Nubia Street	Broadside	Unsafe Speed	EBL	SBT	Yes
02/02/2017	Azusa Canyon Road/Nubia Street	Unknown	Improper Turn	EBU	SBT	No
10/13/2017	Azusa Canyon Road/Nubia Street	Rear End	Unsafe Speed	EBT	EB Stopped	No
11/25/2017	Azusa Canyon Road/Nubia Street	Rear End	Unsafe Speed	SBT	SBT	No

Notes:

(1) Source: California Highway Patrol, Statewide Integrated Traffic Records System (May 1, 2013 through April 30, 2018).

(2) EB = Eastbound; SB = Southbound; NB = Northbound; L = Left; T = Through; U = U-Turn

(3) Traffic volume forecasts do not appear to require protected phasing for NBL; therefore, a traffic signal with permitted phasing is unlikely to correct this error since the NBL movement would still be required to yield to the SBT movement.

APPENDIX G

STATE HIGHWAY LEVEL OF SERVICE WORKSHEETS

5010 Azusa Canyon Road

Vistro File: G:\...\SH-AME.vistro
Report File: G:\...\SH-E AM.pdf

Scenario 1 Existing
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 SB On-Ramp (SB) at Live Oak Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.901	27.6	C
2	I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)	Two-way stop	HCM 6th Edition	SB Right	1.253	164.7	F
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	HCM 6th Edition	SB Left	0.650	17.9	B
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	HCM 6th Edition	WB Right	0.475	15.7	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 SB On-Ramp (SB) at Live Oak Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	27.6
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.901

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present			No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	278	521	608	1306
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	278	521	608	1306
Peak Hour Factor	1.0000	1.0000	0.8740	0.8740	0.8740	0.8740
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	80	149	174	374
Total Analysis Volume [veh/h]	0	0	318	596	696	1494
Presence of On-Street Parking			No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	70
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	0	0	5	0	5	5
Maximum Green [s]	0	0	30	0	30	30
Amber [s]	0.0	0.0	3.0	0.0	3.0	3.0
All red [s]	0.0	0.0	1.0	0.0	1.0	1.0
Split [s]	0	0	35	0	35	35
Vehicle Extension [s]	0.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	0	0	5	0	0	5
Pedestrian Clearance [s]	0	0	10	0	0	10
Rest In Walk			No			No
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall			No		No	No
Maximum Recall			No		No	No
Pedestrian Recall			No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	L	C
C, Cycle Length [s]		70	70	70
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00
g_i, Effective Green Time [s]		31	31	31
g / C, Green / Cycle		0.44	0.44	0.44
(v / s)_i Volume / Saturation Flow Rate		0.09	0.38	0.41
s, saturation flow rate [veh/h]		3618	1810	3618
c, Capacity [veh/h]		1602	801	1602
d1, Uniform Delay [s]		11.91	17.65	18.51
k, delay calibration		0.50	0.50	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00
d2, Incremental Delay [s]		0.28	12.29	11.31
d3, Initial Queue Delay [s]		0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.20	0.87	0.93
d, Delay for Lane Group [s/veh]		12.19	29.94	29.82
Lane Group LOS		B	C	C
Critical Lane Group		No	Yes	Yes
50th-Percentile Queue Length [veh/ln]		1.45	11.73	12.63
50th-Percentile Queue Length [ft/ln]		36.19	293.14	315.83
95th-Percentile Queue Length [veh/ln]		2.61	17.34	18.46
95th-Percentile Queue Length [ft/ln]		65.14	433.54	461.55

Movement, Approach, & Intersection Results

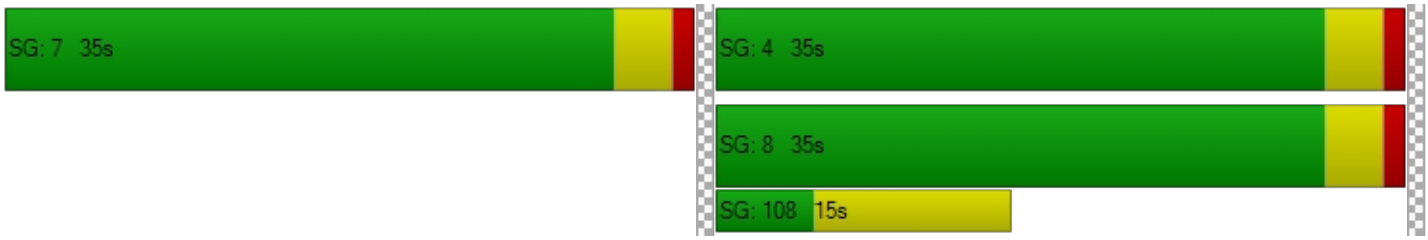
d_M, Delay for Movement [s/veh]	0.00	0.00	12.19	0.00	29.94	29.82
Movement LOS			B		C	C
d_A, Approach Delay [s/veh]	0.00		12.19		29.86	
Approach LOS	A		B		C	
d_I, Intersection Delay [s/veh]	27.62					
Intersection LOS	C					
Intersection V/C	0.901					

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	26.58	35.00	35.00
l_p,int, Pedestrian LOS Score for Intersection	2.091	2.653	2.789
Crosswalk LOS	B	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	35.00	35.00	35.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.395	5.939
Bicycle LOS	D	E	F

Sequence

Ring 1	7	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	164.7
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.253

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	126	0	0	117	0	70	0	0	361	0
Total Analysis Volume [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.57	0.00	0.00	1.25	0.00	0.00	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	14.19	0.00	0.00	164.71	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			B			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	3.64	0.00	0.00	20.41	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	91.02	0.00	0.00	510.28	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	14.19			164.71			0.00			0.00		
Approach LOS	B			F			A			A		
d_I, Intersection Delay [s/veh]	31.26											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	17.9
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.650

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	408	589	0	679	1019	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	408	589	0	679	1019	0
Peak Hour Factor	0.9630	0.9630	1.0000	0.9630	0.9630	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	106	0	0	176	265	0
Total Analysis Volume [veh/h]	424	0	0	705	1058	0
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-
Minimum Green [s]	9	0	0	5	15	0
Maximum Green [s]	30	0	0	50	50	0
Amber [s]	4.8	0.0	0.0	3.7	4.8	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	30	0	0	50	50	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	0	0	0	0	7	0
Pedestrian Clearance [s]	0	0	0	0	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.8	0.0	0.0	2.7	3.8	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	C
C, Cycle Length [s]	80	80	80	80
L, Total Lost Time per Cycle [s]	5.80	5.80	4.70	5.80
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.80	3.80	2.70	3.80
g_i, Effective Green Time [s]	24	24	45	44
g / C, Green / Cycle	0.30	0.30	0.57	0.55
(v / s)_i Volume / Saturation Flow Rate	0.26	0.00	0.15	0.32
s, saturation flow rate [veh/h]	1629	1454	4658	3256
c, Capacity [veh/h]	493	440	2638	1799
d1, Uniform Delay [s]	26.31	0.00	8.87	11.87
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	17.62	0.00	0.25	1.42
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.86	0.00	0.27	0.59
d, Delay for Lane Group [s/veh]	43.93	0.00	9.12	13.28
Lane Group LOS	D	A	A	B
Critical Lane Group	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	9.77	0.00	1.93	5.89
50th-Percentile Queue Length [ft/ln]	244.31	0.00	48.28	147.18
95th-Percentile Queue Length [veh/ln]	14.90	0.00	3.48	9.87
95th-Percentile Queue Length [ft/ln]	372.48	0.00	86.90	246.66

Movement, Approach, & Intersection Results

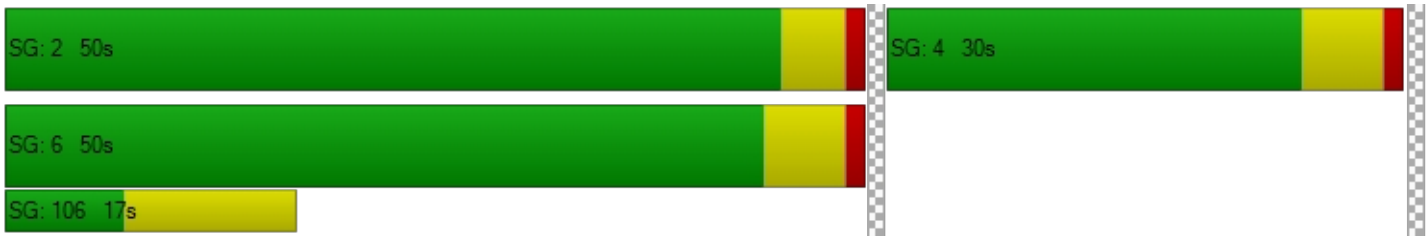
d_M, Delay for Movement [s/veh]	43.93	0.00	0.00	9.12	13.28	0.00
Movement LOS	D	A		A	B	
d_A, Approach Delay [s/veh]	43.93		9.12		13.28	
Approach LOS	D		A		B	
d_I, Intersection Delay [s/veh]	17.88					
Intersection LOS	B					
Intersection V/C	0.650					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	24.2	24.2
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	19.46	19.46
I_p,int, Pedestrian LOS Score for Intersection	1.880	2.620	2.703
Crosswalk LOS	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	40.00	40.00	40.00
I_b,int, Bicycle LOS Score for Intersection	4.132	4.520	5.005
Bicycle LOS	D	E	F

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	15.7
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.475

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	999	0	0	1195	248	230
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	999	0	0	1195	248	230
Peak Hour Factor	0.9780	1.0000	1.0000	0.9780	0.9780	0.9780
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	255	0	0	305	63	59
Total Analysis Volume [veh/h]	1021	0	0	1222	254	235
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	20	0	0	20	15	0
Maximum Green [s]	40	0	0	40	35	0
Amber [s]	4.3	0.0	0.0	4.3	4.1	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	40	0	0	40	35	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	7	0	0	0	0	0
Pedestrian Clearance [s]	15	0	0	0	0	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.3	0.0	0.0	3.3	3.1	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C
C, Cycle Length [s]	75	75	75	75
L, Total Lost Time per Cycle [s]	5.30	5.30	5.10	5.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.30	3.30	3.10	3.10
g_i, Effective Green Time [s]	35	35	30	30
g / C, Green / Cycle	0.46	0.46	0.40	0.40
(v / s)_i Volume / Saturation Flow Rate	0.22	0.26	0.16	0.16
s, saturation flow rate [veh/h]	4658	4658	1629	1454
c, Capacity [veh/h]	2155	2155	649	579
d1, Uniform Delay [s]	13.87	14.68	16.07	16.18
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.75	1.09	1.77	2.10
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.47	0.57	0.39	0.41
d, Delay for Lane Group [s/veh]	14.62	15.77	17.84	18.28
Lane Group LOS	B	B	B	B
Critical Lane Group	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	3.67	4.68	3.22	3.04
50th-Percentile Queue Length [ft/ln]	91.83	117.02	80.53	76.04
95th-Percentile Queue Length [veh/ln]	6.61	8.23	5.80	5.48
95th-Percentile Queue Length [ft/ln]	165.29	205.73	144.96	136.88

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	14.62	0.00	0.00	15.77	17.85	18.28
Movement LOS	B			B	B	B
d_A, Approach Delay [s/veh]	14.62		15.77		18.05	
Approach LOS	B		B		B	
d_I, Intersection Delay [s/veh]	15.74					
Intersection LOS	B					
Intersection V/C	0.475					

Other Modes

g_Walk,mi, Effective Walk Time [s]	29.9	29.9	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	13.56	13.56	27.31
l_p,int, Pedestrian LOS Score for Intersection	2.888	2.885	1.943
Crosswalk LOS	C	C	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	37.50	37.50	37.50
l_b,int, Bicycle LOS Score for Intersection	4.694	4.805	4.939
Bicycle LOS	E	E	E

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

5010 Azusa Canyon Road

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Report File: G:\...\SH-E PM.pdf

Scenario 1 Existing
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 SB On-Ramp (SB) at Live Oak Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.806	19.4	B
2	I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)	Two-way stop	HCM 6th Edition	NB Right	1.262	161.1	F
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	HCM 6th Edition	SB Left	0.465	12.8	B
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	HCM 6th Edition	SB Thru	0.536	16.8	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 SB On-Ramp (SB) at Live Oak Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	19.4
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.806

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present			No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	1183	1209	549	898
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	52	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	1183	1209	601	898
Peak Hour Factor	1.0000	1.0000	0.9430	0.9430	0.9430	0.9430
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	314	321	159	238
Total Analysis Volume [veh/h]	0	0	1255	1282	637	952
Presence of On-Street Parking			No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	0	0	5	0	5	5
Maximum Green [s]	0	0	30	0	30	30
Amber [s]	0.0	0.0	3.0	0.0	3.0	3.0
All red [s]	0.0	0.0	1.0	0.0	1.0	1.0
Split [s]	0	0	29	0	31	29
Vehicle Extension [s]	0.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	0	0	5	0	0	5
Pedestrian Clearance [s]	0	0	10	0	0	10
Rest In Walk			No			No
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall			No		No	No
Maximum Recall			No		No	No
Pedestrian Recall			No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	L	C
C, Cycle Length [s]		60	60	60
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00
g_i, Effective Green Time [s]		25	27	25
g / C, Green / Cycle		0.42	0.45	0.42
(v / s)_i Volume / Saturation Flow Rate		0.35	0.35	0.26
s, saturation flow rate [veh/h]		3618	1810	3618
c, Capacity [veh/h]		1507	814	1507
d1, Uniform Delay [s]		15.63	14.01	13.85
k, delay calibration		0.50	0.50	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00
d2, Incremental Delay [s]		5.53	7.39	2.02
d3, Initial Queue Delay [s]		0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.83	0.78	0.63
d, Delay for Lane Group [s/veh]		21.16	21.39	15.88
Lane Group LOS		C	C	B
Critical Lane Group		Yes	Yes	No
50th-Percentile Queue Length [veh/ln]		7.73	7.85	4.84
50th-Percentile Queue Length [ft/ln]		193.21	196.17	121.02
95th-Percentile Queue Length [veh/ln]		12.29	12.44	8.45
95th-Percentile Queue Length [ft/ln]		307.19	311.02	211.23

Movement, Approach, & Intersection Results

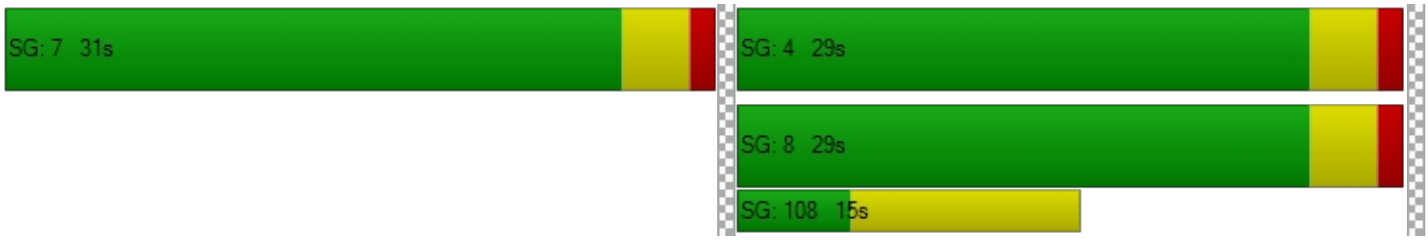
d_M, Delay for Movement [s/veh]	0.00	0.00	21.16	0.00	21.39	15.88
Movement LOS			C		C	B
d_A, Approach Delay [s/veh]	0.00		21.16		18.09	
Approach LOS	A		C		B	
d_I, Intersection Delay [s/veh]	19.44					
Intersection LOS	B					
Intersection V/C	0.806					

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	21.68	30.00	30.00
l_p,int, Pedestrian LOS Score for Intersection	2.025	2.724	2.848
Crosswalk LOS	B	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	4.132	5.168	5.443
Bicycle LOS	D	F	F

Sequence

Ring 1	7	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	161.1
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.262

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	144	0	0	130	0	296	0	0	232	0
Total Analysis Volume [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	1.26	0.00	0.00	0.95	0.00	0.01	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	161.13	0.00	0.00	53.34	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			F			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	23.90	0.00	0.00	12.22	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	597.53	0.00	0.00	305.45	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	161.13			53.34			0.00			0.00		
Approach LOS	F			F			A			A		
d_I, Intersection Delay [s/veh]	37.54											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	12.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.465

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	259	241	0	1156	408	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	259	241	0	1156	408	0
Peak Hour Factor	0.9740	0.9740	1.0000	0.9740	0.9740	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	66	0	0	297	105	0
Total Analysis Volume [veh/h]	266	0	0	1187	419	0
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-
Minimum Green [s]	9	0	0	5	15	0
Maximum Green [s]	30	0	0	50	50	0
Amber [s]	4.8	0.0	0.0	3.7	4.8	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	30	0	0	50	50	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	0	0	0	0	7	0
Pedestrian Clearance [s]	0	0	0	0	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.8	0.0	0.0	2.7	3.8	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	C
C, Cycle Length [s]	80	80	80	80
L, Total Lost Time per Cycle [s]	5.80	5.80	4.70	5.80
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.80	3.80	2.70	3.80
g_i, Effective Green Time [s]	24	24	45	44
g / C, Green / Cycle	0.30	0.30	0.57	0.55
(v / s)_i Volume / Saturation Flow Rate	0.16	0.00	0.25	0.13
s, saturation flow rate [veh/h]	1629	1454	4658	3256
c, Capacity [veh/h]	493	440	2638	1799
d1, Uniform Delay [s]	23.26	0.00	10.10	9.19
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	4.20	0.00	0.56	0.30
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.54	0.00	0.45	0.23
d, Delay for Lane Group [s/veh]	27.46	0.00	10.66	9.50
Lane Group LOS	C	A	B	A
Critical Lane Group	Yes	No	Yes	No
50th-Percentile Queue Length [veh/ln]	4.66	0.00	3.72	1.77
50th-Percentile Queue Length [ft/ln]	116.45	0.00	93.07	44.34
95th-Percentile Queue Length [veh/ln]	8.20	0.00	6.70	3.19
95th-Percentile Queue Length [ft/ln]	204.94	0.00	167.52	79.80

Movement, Approach, & Intersection Results

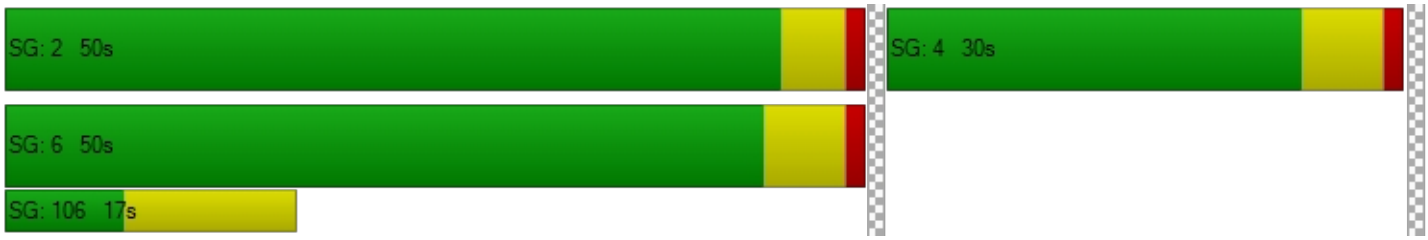
d_M, Delay for Movement [s/veh]	27.46	0.00	0.00	10.66	9.50	0.00
Movement LOS	C	A		B	A	
d_A, Approach Delay [s/veh]	27.46		10.66		9.50	
Approach LOS	C		B		A	
d_I, Intersection Delay [s/veh]	12.78					
Intersection LOS	B					
Intersection V/C	0.465					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	24.2	24.2
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	19.46	19.46
l_p,int, Pedestrian LOS Score for Intersection	1.816	2.589	2.641
Crosswalk LOS	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	40.00	40.00	40.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.785	4.478
Bicycle LOS	D	E	E

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	16.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.536

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	864	0	0	1501	217	208
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	864	0	0	1501	217	208
Peak Hour Factor	0.9720	1.0000	1.0000	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	222	0	0	386	56	53
Total Analysis Volume [veh/h]	889	0	0	1544	223	214
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	20	0	0	20	15	0
Maximum Green [s]	40	0	0	40	35	0
Amber [s]	4.3	0.0	0.0	4.3	4.1	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	40	0	0	40	35	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	7	0	0	0	0	0
Pedestrian Clearance [s]	15	0	0	0	0	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.3	0.0	0.0	3.3	3.1	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C
C, Cycle Length [s]	75	75	75	75
L, Total Lost Time per Cycle [s]	5.30	5.30	5.10	5.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.30	3.30	3.10	3.10
g_i, Effective Green Time [s]	35	35	30	30
g / C, Green / Cycle	0.46	0.46	0.40	0.40
(v / s)_i Volume / Saturation Flow Rate	0.19	0.33	0.14	0.15
s, saturation flow rate [veh/h]	4658	4658	1629	1454
c, Capacity [veh/h]	2155	2155	649	579
d1, Uniform Delay [s]	13.38	16.20	15.71	15.90
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.59	2.08	1.44	1.81
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.41	0.72	0.34	0.37
d, Delay for Lane Group [s/veh]	13.97	18.27	17.15	17.71
Lane Group LOS	B	B	B	B
Critical Lane Group	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	3.08	6.64	2.75	2.71
50th-Percentile Queue Length [ft/ln]	76.93	165.94	68.80	67.77
95th-Percentile Queue Length [veh/ln]	5.54	10.86	4.95	4.88
95th-Percentile Queue Length [ft/ln]	138.48	271.57	123.84	121.99

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	13.97	0.00	0.00	18.27	17.17	17.71
Movement LOS	B			B	B	B
d_A, Approach Delay [s/veh]	13.97		18.27		17.43	
Approach LOS	B		B		B	
d_I, Intersection Delay [s/veh]	16.81					
Intersection LOS	B					
Intersection V/C	0.536					

Other Modes

g_Walk,mi, Effective Walk Time [s]	29.9	29.9	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	13.56	13.56	27.31
I_p,int, Pedestrian LOS Score for Intersection	2.918	2.917	1.918
Crosswalk LOS	C	C	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	37.50	37.50	37.50
I_b,int, Bicycle LOS Score for Intersection	4.621	4.982	4.853
Bicycle LOS	E	E	E

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

5010 Azusa Canyon Road

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Report File: G:\...\SH-EP AM.pdf

Scenario 4 Existing Plus Project
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 SB On-Ramp (SB) at Live Oak Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.867	29.7	C
2	I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)	Two-way stop	HCM 6th Edition	SB Right	1.253	164.7	F
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	HCM 6th Edition	SB Left	0.674	20.2	C
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	HCM 6th Edition	WB Right	0.484	15.9	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 SB On-Ramp (SB) at Live Oak Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	29.7
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.867

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present			No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	278	521	608	1306
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	278	521	608	1306
Peak Hour Factor	1.0000	1.0000	0.8740	0.8740	0.8740	0.8740
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	80	149	174	374
Total Analysis Volume [veh/h]	0	0	318	596	696	1494
Presence of On-Street Parking			No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	100
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	0	0	5	0	5	5
Maximum Green [s]	0	0	30	0	30	30
Amber [s]	0.0	0.0	3.0	0.0	3.0	3.0
All red [s]	0.0	0.0	1.0	0.0	1.0	1.0
Split [s]	0	0	52	0	48	52
Vehicle Extension [s]	0.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	0	0	5	0	0	5
Pedestrian Clearance [s]	0	0	10	0	0	10
Rest In Walk			No			No
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall			No		No	No
Maximum Recall			No		No	No
Pedestrian Recall			No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	L	C
C, Cycle Length [s]		100	100	100
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00
g_i, Effective Green Time [s]		48	44	48
g / C, Green / Cycle		0.48	0.44	0.48
(v / s)_i Volume / Saturation Flow Rate		0.09	0.38	0.41
s, saturation flow rate [veh/h]		3618	1810	3618
c, Capacity [veh/h]		1736	796	1736
d1, Uniform Delay [s]		14.82	25.48	23.03
k, delay calibration		0.50	0.50	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00
d2, Incremental Delay [s]		0.23	12.81	5.84
d3, Initial Queue Delay [s]		0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.18	0.87	0.86
d, Delay for Lane Group [s/veh]		15.06	38.29	28.88
Lane Group LOS		B	D	C
Critical Lane Group		No	Yes	Yes
50th-Percentile Queue Length [veh/ln]		2.07	17.16	16.12
50th-Percentile Queue Length [ft/ln]		51.78	429.11	403.01
95th-Percentile Queue Length [veh/ln]		3.73	23.96	22.70
95th-Percentile Queue Length [ft/ln]		93.21	598.97	567.62

Movement, Approach, & Intersection Results

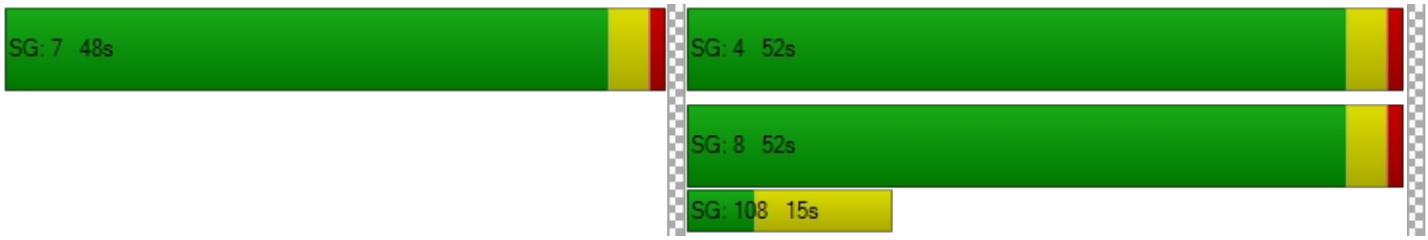
d_M, Delay for Movement [s/veh]	0.00	0.00	15.06	0.00	38.29	28.88
Movement LOS			B		D	C
d_A, Approach Delay [s/veh]	0.00		15.06		31.87	
Approach LOS	A		B		C	
d_I, Intersection Delay [s/veh]	29.74					
Intersection LOS	C					
Intersection V/C	0.867					

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	41.41	50.00	50.00
l_p,int, Pedestrian LOS Score for Intersection	2.109	2.667	2.803
Crosswalk LOS	B	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	50.00	50.00	50.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.395	5.939
Bicycle LOS	D	E	F

Sequence

Ring 1	7	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	164.7
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.253

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	63	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	35	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	602	0	0	468	0	278	0	0	1445	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	151	0	0	117	0	70	0	0	361	0
Total Analysis Volume [veh/h]	0	0	602	0	0	468	0	278	0	0	1445	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	0.68	0.00	0.00	1.25	0.00	0.00	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	17.05	0.00	0.00	164.71	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			C			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	5.44	0.00	0.00	20.41	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	136.12	0.00	0.00	510.28	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	17.05			164.71			0.00			0.00		
Approach LOS	C			F			A			A		
d_I, Intersection Delay [s/veh]	31.28											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	20.2
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.674

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	408	589	0	679	1019	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	33	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	441	589	0	679	1019	0
Peak Hour Factor	0.9630	0.9630	1.0000	0.9630	0.9630	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	114	0	0	176	265	0
Total Analysis Volume [veh/h]	458	0	0	705	1058	0
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-
Minimum Green [s]	9	0	0	5	15	0
Maximum Green [s]	30	0	0	50	50	0
Amber [s]	4.8	0.0	0.0	3.7	4.8	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	30	0	0	50	50	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	0	0	0	0	7	0
Pedestrian Clearance [s]	0	0	0	0	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.8	0.0	0.0	2.7	3.8	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	C
C, Cycle Length [s]	80	80	80	80
L, Total Lost Time per Cycle [s]	5.80	5.80	4.70	5.80
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.80	3.80	2.70	3.80
g_i, Effective Green Time [s]	24	24	45	44
g / C, Green / Cycle	0.30	0.30	0.57	0.55
(v / s)_i Volume / Saturation Flow Rate	0.28	0.00	0.15	0.32
s, saturation flow rate [veh/h]	1629	1454	4658	3256
c, Capacity [veh/h]	493	440	2638	1799
d1, Uniform Delay [s]	27.07	0.00	8.87	11.87
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	26.36	0.00	0.25	1.42
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.93	0.00	0.27	0.59
d, Delay for Lane Group [s/veh]	53.43	0.00	9.12	13.28
Lane Group LOS	D	A	A	B
Critical Lane Group	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	11.79	0.00	1.93	5.89
50th-Percentile Queue Length [ft/ln]	294.73	0.00	48.28	147.18
95th-Percentile Queue Length [veh/ln]	17.42	0.00	3.48	9.87
95th-Percentile Queue Length [ft/ln]	435.51	0.00	86.90	246.66

Movement, Approach, & Intersection Results

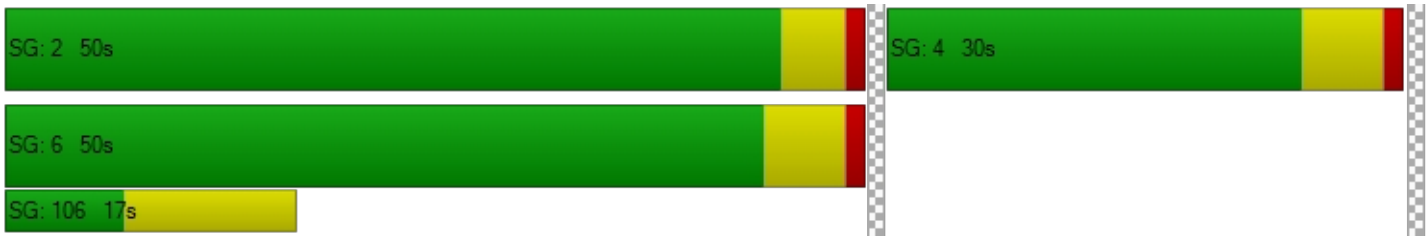
d_M, Delay for Movement [s/veh]	53.43	0.00	0.00	9.12	13.28	0.00
Movement LOS	D	A		A	B	
d_A, Approach Delay [s/veh]	53.43		9.12		13.28	
Approach LOS	D		A		B	
d_I, Intersection Delay [s/veh]	20.24					
Intersection LOS	C					
Intersection V/C	0.674					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	24.2	24.2
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	19.46	19.46
l_p,int, Pedestrian LOS Score for Intersection	1.894	2.620	2.709
Crosswalk LOS	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	40.00	40.00	40.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.520	5.005
Bicycle LOS	D	E	F

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	15.9
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.484

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	999	0	0	1195	248	230
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	35	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	999	0	0	1195	283	230
Peak Hour Factor	0.9780	1.0000	1.0000	0.9780	0.9780	0.9780
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	255	0	0	305	72	59
Total Analysis Volume [veh/h]	1021	0	0	1222	289	235
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	20	0	0	20	15	0
Maximum Green [s]	40	0	0	40	35	0
Amber [s]	4.3	0.0	0.0	4.3	4.1	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	40	0	0	40	35	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	7	0	0	0	0	0
Pedestrian Clearance [s]	15	0	0	0	0	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.3	0.0	0.0	3.3	3.1	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C
C, Cycle Length [s]	75	75	75	75
L, Total Lost Time per Cycle [s]	5.30	5.30	5.10	5.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.30	3.30	3.10	3.10
g_i, Effective Green Time [s]	35	35	30	30
g / C, Green / Cycle	0.46	0.46	0.40	0.40
(v / s)_i Volume / Saturation Flow Rate	0.22	0.26	0.17	0.17
s, saturation flow rate [veh/h]	4658	4658	1629	1462
c, Capacity [veh/h]	2155	2155	649	583
d1, Uniform Delay [s]	13.87	14.68	16.33	16.33
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.75	1.09	2.03	2.27
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.47	0.57	0.43	0.43
d, Delay for Lane Group [s/veh]	14.62	15.77	18.36	18.60
Lane Group LOS	B	B	B	B
Critical Lane Group	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	3.67	4.68	3.57	3.25
50th-Percentile Queue Length [ft/ln]	91.83	117.02	89.32	81.16
95th-Percentile Queue Length [veh/ln]	6.61	8.23	6.43	5.84
95th-Percentile Queue Length [ft/ln]	165.29	205.73	160.77	146.08

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	14.62	0.00	0.00	15.77	18.38	18.60
Movement LOS	B			B	B	B
d_A, Approach Delay [s/veh]	14.62		15.77		18.47	
Approach LOS	B		B		B	
d_I, Intersection Delay [s/veh]	15.85					
Intersection LOS	B					
Intersection V/C	0.484					

Other Modes

g_Walk,mi, Effective Walk Time [s]	29.9	29.9	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	13.56	13.56	27.31
l_p,int, Pedestrian LOS Score for Intersection	2.895	2.885	1.960
Crosswalk LOS	C	C	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	37.50	37.50	37.50
l_b,int, Bicycle LOS Score for Intersection	4.694	4.805	4.997
Bicycle LOS	E	E	E

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

5010 Azusa Canyon Road

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Report File: G:\...\SH-EPi AM.pdf

Scenario 4 Existing Plus Project
6/12/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
2	I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)	Signalized	HCM 6th Edition	NB Right	0.678	17.0	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 2: I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	17.0
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.678

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	63	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	35	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	602	0	0	468	0	278	0	0	1445	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	151	0	0	117	0	70	0	0	361	0
Total Analysis Volume [veh/h]	0	0	602	0	0	468	0	278	0	0	1445	0
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	1 - Coordination Group
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	51.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	0	2	0	0	6	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	0	5	0	0	5	0	5	0	0	5	0
Maximum Green [s]	0	0	30	0	0	30	0	30	0	0	30	0
Amber [s]	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	0	22	0	0	22	0	38	0	0	38	0
Vehicle Extension [s]	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	0	5	0	0	5	0	5	0	0	5	0
Pedestrian Clearance [s]	0	0	10	0	0	10	0	10	0	0	10	0
Rest In Walk			No			No		No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall			No			No		No			No	
Maximum Recall			No			No		No			No	
Pedestrian Recall			No			No		No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	R	R	C	C
C, Cycle Length [s]	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	18	18	34	34
g / C, Green / Cycle	0.30	0.30	0.57	0.57
(v / s)_i Volume / Saturation Flow Rate	0.23	0.18	0.09	0.44
s, saturation flow rate [veh/h]	2573	2573	3256	3256
c, Capacity [veh/h]	772	772	1845	1845
d1, Uniform Delay [s]	19.19	17.97	6.16	10.13
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	7.67	3.52	0.17	3.41
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.78	0.61	0.15	0.78
d, Delay for Lane Group [s/veh]	26.86	21.49	6.33	13.53
Lane Group LOS	C	C	A	B
Critical Lane Group	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	4.27	2.89	0.70	6.51
50th-Percentile Queue Length [ft/ln]	106.84	72.24	17.59	162.70
95th-Percentile Queue Length [veh/ln]	7.66	5.20	1.27	10.69
95th-Percentile Queue Length [ft/ln]	191.60	130.04	31.66	267.29

Movement, Approach, & Intersection Results

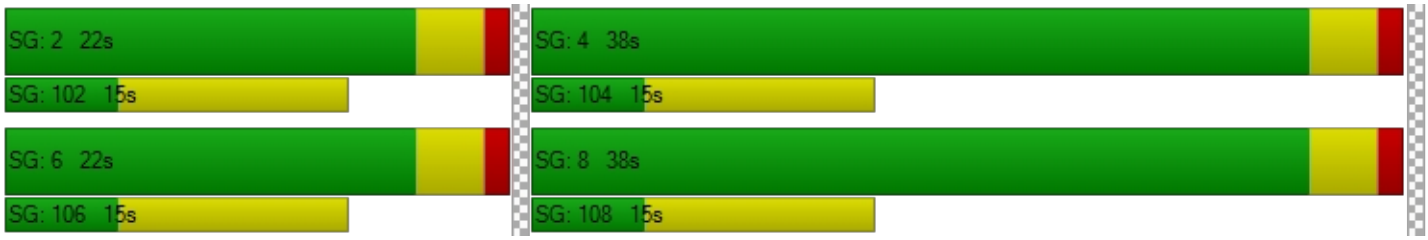
d_M, Delay for Movement [s/veh]	0.00	0.00	26.86	0.00	0.00	21.49	0.00	6.33	0.00	0.00	13.53	0.00
Movement LOS			C			C		A			B	
d_A, Approach Delay [s/veh]	26.86			21.49			6.33			13.53		
Approach LOS	C			C			A			B		
d_I, Intersection Delay [s/veh]	17.02											
Intersection LOS	B											
Intersection V/C	0.678											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	21.68	21.68	21.68	21.68
l_p,int, Pedestrian LOS Score for Intersection	1.989	1.924	2.790	2.734
Crosswalk LOS	A	A	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	1133	1133
d_b, Bicycle Delay [s]	30.00	30.00	5.63	5.63
l_b,int, Bicycle LOS Score for Intersection	4.132	4.132	1.789	2.752
Bicycle LOS	D	D	A	C

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



5010 Azusa Canyon Road

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Report File: G:\...\SH-EP PM.pdf

Scenario 4 Existing Plus Project
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 SB On-Ramp (SB) at Live Oak Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.760	24.1	C
2	I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)	Two-way stop	HCM 6th Edition	NB Right	1.266	162.9	F
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	HCM 6th Edition	SB Left	0.465	12.8	B
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	HCM 6th Edition	SB Thru	0.536	16.8	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 SB On-Ramp (SB) at Live Oak Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	24.1
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.760

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present			No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	1183	1209	549	898
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	52	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	1183	1209	601	898
Peak Hour Factor	1.0000	1.0000	0.9430	0.9430	0.9430	0.9430
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	314	321	159	238
Total Analysis Volume [veh/h]	0	0	1255	1282	637	952
Presence of On-Street Parking			No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	100
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	0	0	5	0	5	5
Maximum Green [s]	0	0	30	0	30	30
Amber [s]	0.0	0.0	3.0	0.0	3.0	3.0
All red [s]	0.0	0.0	1.0	0.0	1.0	1.0
Split [s]	0	0	52	0	48	52
Vehicle Extension [s]	0.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	0	0	5	0	0	5
Pedestrian Clearance [s]	0	0	10	0	0	10
Rest In Walk			No			No
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall			No		No	No
Maximum Recall			No		No	No
Pedestrian Recall			No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	L	C
C, Cycle Length [s]		100	100	100
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00
g_i, Effective Green Time [s]		48	44	48
g / C, Green / Cycle		0.48	0.44	0.48
(v / s)_i Volume / Saturation Flow Rate		0.35	0.35	0.26
s, saturation flow rate [veh/h]		3618	1810	3618
c, Capacity [veh/h]		1736	796	1736
d1, Uniform Delay [s]		20.70	24.20	18.35
k, delay calibration		0.50	0.50	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00
d2, Incremental Delay [s]		2.65	8.28	1.25
d3, Initial Queue Delay [s]		0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.72	0.80	0.55
d, Delay for Lane Group [s/veh]		23.35	32.48	19.60
Lane Group LOS		C	C	B
Critical Lane Group		Yes	Yes	No
50th-Percentile Queue Length [veh/ln]		11.75	14.29	7.77
50th-Percentile Queue Length [ft/ln]		293.64	357.22	194.24
95th-Percentile Queue Length [veh/ln]		17.37	20.49	12.34
95th-Percentile Queue Length [ft/ln]		434.15	512.20	308.52

Movement, Approach, & Intersection Results

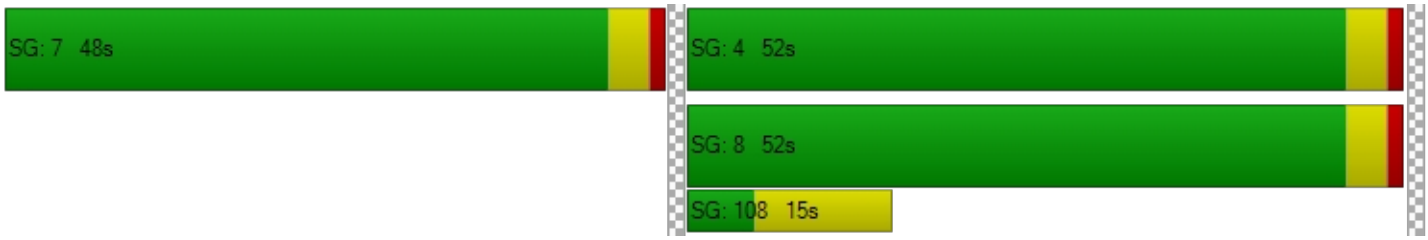
d_M, Delay for Movement [s/veh]	0.00	0.00	23.35	0.00	32.48	19.60
Movement LOS			C		C	B
d_A, Approach Delay [s/veh]	0.00		23.35		24.76	
Approach LOS	A		C		C	
d_I, Intersection Delay [s/veh]	24.14					
Intersection LOS	C					
Intersection V/C	0.760					

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	41.41	50.00	50.00
l_p,int, Pedestrian LOS Score for Intersection	2.051	2.744	2.869
Crosswalk LOS	B	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	50.00	50.00	50.00
l_b,int, Bicycle LOS Score for Intersection	4.132	5.168	5.443
Bicycle LOS	D	F	F

Sequence

Ring 1	7	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	162.9
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.266

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	2	0	0	0	0	0	0	0	52	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	576	0	0	521	0	1183	0	0	978	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	144	0	0	130	0	296	0	0	245	0
Total Analysis Volume [veh/h]	0	0	576	0	0	521	0	1183	0	0	978	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	1.27	0.00	0.00	0.98	0.00	0.01	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	162.87	0.00	0.00	62.81	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			F			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	24.11	0.00	0.00	13.41	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	602.64	0.00	0.00	335.34	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	162.87			62.81			0.00			0.00		
Approach LOS	F			F			A			A		
d_I, Intersection Delay [s/veh]	38.84											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	12.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.465

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	259	241	0	1156	408	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	259	241	0	1156	408	0
Peak Hour Factor	0.9740	0.9740	1.0000	0.9740	0.9740	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	66	0	0	297	105	0
Total Analysis Volume [veh/h]	266	0	0	1187	419	0
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-
Minimum Green [s]	9	0	0	5	15	0
Maximum Green [s]	30	0	0	50	50	0
Amber [s]	4.8	0.0	0.0	3.7	4.8	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	30	0	0	50	50	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	0	0	0	0	7	0
Pedestrian Clearance [s]	0	0	0	0	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.8	0.0	0.0	2.7	3.8	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	C
C, Cycle Length [s]	80	80	80	80
L, Total Lost Time per Cycle [s]	5.80	5.80	4.70	5.80
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.80	3.80	2.70	3.80
g_i, Effective Green Time [s]	24	24	45	44
g / C, Green / Cycle	0.30	0.30	0.57	0.55
(v / s)_i Volume / Saturation Flow Rate	0.16	0.00	0.25	0.13
s, saturation flow rate [veh/h]	1629	1454	4658	3256
c, Capacity [veh/h]	493	440	2638	1799
d1, Uniform Delay [s]	23.26	0.00	10.10	9.19
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	4.20	0.00	0.56	0.30
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.54	0.00	0.45	0.23
d, Delay for Lane Group [s/veh]	27.46	0.00	10.66	9.50
Lane Group LOS	C	A	B	A
Critical Lane Group	Yes	No	Yes	No
50th-Percentile Queue Length [veh/ln]	4.66	0.00	3.72	1.77
50th-Percentile Queue Length [ft/ln]	116.45	0.00	93.07	44.34
95th-Percentile Queue Length [veh/ln]	8.20	0.00	6.70	3.19
95th-Percentile Queue Length [ft/ln]	204.94	0.00	167.52	79.80

Movement, Approach, & Intersection Results

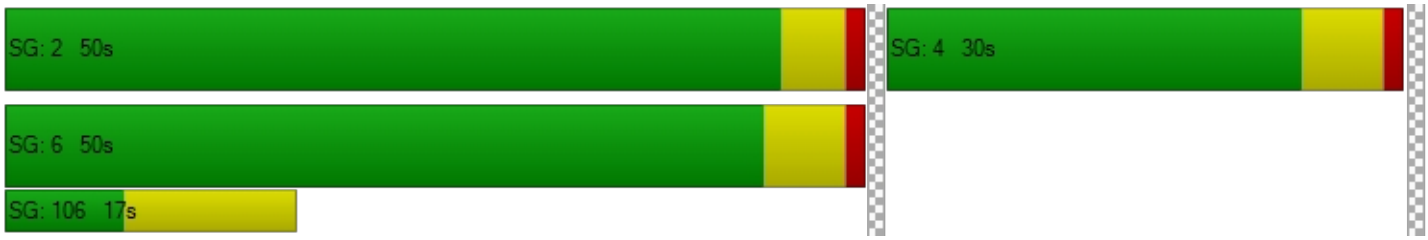
d_M, Delay for Movement [s/veh]	27.46	0.00	0.00	10.66	9.50	0.00
Movement LOS	C	A		B	A	
d_A, Approach Delay [s/veh]	27.46		10.66		9.50	
Approach LOS	C		B		A	
d_I, Intersection Delay [s/veh]	12.78					
Intersection LOS	B					
Intersection V/C	0.465					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	24.2	24.2
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	19.46	19.46
l_p,int, Pedestrian LOS Score for Intersection	1.816	2.589	2.641
Crosswalk LOS	A	B	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	40.00	40.00	40.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.785	4.478
Bicycle LOS	D	E	E

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	16.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.536

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	864	0	0	1501	217	208
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	0	0	1	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	864	0	0	1501	218	208
Peak Hour Factor	0.9720	1.0000	1.0000	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	222	0	0	386	56	53
Total Analysis Volume [veh/h]	889	0	0	1544	224	214
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	20	0	0	20	15	0
Maximum Green [s]	40	0	0	40	35	0
Amber [s]	4.3	0.0	0.0	4.3	4.1	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	40	0	0	40	35	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	7	0	0	0	0	0
Pedestrian Clearance [s]	15	0	0	0	0	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.3	0.0	0.0	3.3	3.1	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C
C, Cycle Length [s]	75	75	75	75
L, Total Lost Time per Cycle [s]	5.30	5.30	5.10	5.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.30	3.30	3.10	3.10
g_i, Effective Green Time [s]	35	35	30	30
g / C, Green / Cycle	0.46	0.46	0.40	0.40
(v / s)_i Volume / Saturation Flow Rate	0.19	0.33	0.14	0.15
s, saturation flow rate [veh/h]	4658	4658	1629	1454
c, Capacity [veh/h]	2155	2155	649	579
d1, Uniform Delay [s]	13.38	16.20	15.72	15.90
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.59	2.08	1.45	1.81
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.41	0.72	0.35	0.37
d, Delay for Lane Group [s/veh]	13.97	18.27	17.18	17.71
Lane Group LOS	B	B	B	B
Critical Lane Group	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	3.08	6.64	2.77	2.71
50th-Percentile Queue Length [ft/ln]	76.93	165.94	69.17	67.77
95th-Percentile Queue Length [veh/ln]	5.54	10.86	4.98	4.88
95th-Percentile Queue Length [ft/ln]	138.48	271.57	124.50	121.99

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	13.97	0.00	0.00	18.27	17.19	17.71
Movement LOS	B			B	B	B
d_A, Approach Delay [s/veh]	13.97		18.27		17.44	
Approach LOS	B		B		B	
d_I, Intersection Delay [s/veh]	16.81					
Intersection LOS	B					
Intersection V/C	0.536					

Other Modes

g_Walk,mi, Effective Walk Time [s]	29.9	29.9	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	13.56	13.56	27.31
I_p,int, Pedestrian LOS Score for Intersection	2.918	2.917	1.918
Crosswalk LOS	C	C	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	37.50	37.50	37.50
I_b,int, Bicycle LOS Score for Intersection	4.621	4.982	4.855
Bicycle LOS	E	E	E

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

5010 Azusa Canyon Road

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Scenario 4 Existing Plus Project
6/12/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
2	I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)	Signalized	HCM 6th Edition	NB Right	0.587	14.7	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 2: I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	14.7
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.587

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
In-Process Volume [veh/h]	0	0	2	0	0	0	0	0	0	0	52	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	576	0	0	521	0	1183	0	0	978	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	144	0	0	130	0	296	0	0	245	0
Total Analysis Volume [veh/h]	0	0	576	0	0	521	0	1183	0	0	978	0
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	1 - Coordination Group
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	14.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	0	2	0	0	6	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	0	5	0	0	5	0	5	0	0	5	0
Maximum Green [s]	0	0	30	0	0	30	0	30	0	0	30	0
Amber [s]	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	0	24	0	0	24	0	36	0	0	36	0
Vehicle Extension [s]	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	0	5	0	0	5	0	5	0	0	5	0
Pedestrian Clearance [s]	0	0	10	0	0	10	0	10	0	0	10	0
Rest In Walk			No			No		No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall			No			No		No			No	
Maximum Recall			No			No		No			No	
Pedestrian Recall			No			No		No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	R	R	C	C
C, Cycle Length [s]	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	20	20	32	32
g / C, Green / Cycle	0.33	0.33	0.53	0.53
(v / s)_i Volume / Saturation Flow Rate	0.22	0.20	0.36	0.30
s, saturation flow rate [veh/h]	2573	2573	3256	3256
c, Capacity [veh/h]	858	858	1736	1736
d1, Uniform Delay [s]	17.18	16.72	10.26	9.34
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	4.18	3.19	2.18	1.33
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.67	0.61	0.68	0.56
d, Delay for Lane Group [s/veh]	21.36	19.91	12.44	10.67
Lane Group LOS	C	B	B	B
Critical Lane Group	Yes	No	Yes	No
50th-Percentile Queue Length [veh/ln]	3.55	3.07	5.07	3.74
50th-Percentile Queue Length [ft/ln]	88.76	76.69	126.82	93.51
95th-Percentile Queue Length [veh/ln]	6.39	5.52	8.77	6.73
95th-Percentile Queue Length [ft/ln]	159.76	138.04	219.17	168.33

Movement, Approach, & Intersection Results

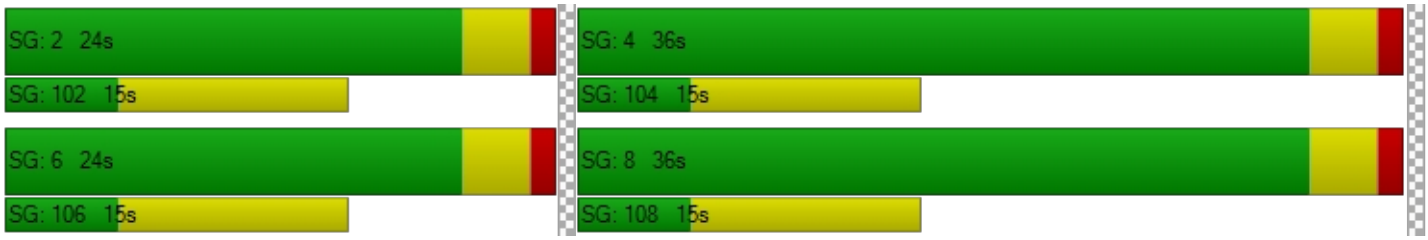
d_M, Delay for Movement [s/veh]	0.00	0.00	21.36	0.00	0.00	19.91	0.00	12.44	0.00	0.00	10.67	0.00
Movement LOS			C			B		B			B	
d_A, Approach Delay [s/veh]	21.36			19.91			12.44			10.67		
Approach LOS	C			B			B			B		
d_I, Intersection Delay [s/veh]	14.68											
Intersection LOS	B											
Intersection V/C	0.587											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	21.68	21.68	21.68	21.68
l_p,int, Pedestrian LOS Score for Intersection	1.976	1.950	2.869	2.814
Crosswalk LOS	A	A	C	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	1067	1067
d_b, Bicycle Delay [s]	30.00	30.00	6.53	6.53
l_b,int, Bicycle LOS Score for Intersection	4.132	4.132	2.536	2.366
Bicycle LOS	D	D	B	B

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



5010 Azusa Canyon Road

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Scenario 3 Future Baseline Plus Cumulative Projects
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 SB On-Ramp (SB) at Live Oak Ave (EW)	Signalized	HCM 6th Edition	WB Left	1.200	114.4	F
2	I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)	Two-way stop	HCM 6th Edition	SB Right	3.204	1,025.8	F
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	HCM 6th Edition	SB Left	0.871	58.8	E
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	HCM 6th Edition	WB Right	0.545	16.6	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 SB On-Ramp (SB) at Live Oak Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	114.4
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.200

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present			No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	278	521	608	1306
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	59	62	133	206	535
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	59	346	664	826	1867
Peak Hour Factor	1.0000	1.0000	0.8740	0.8740	0.8740	0.8740
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	15	99	190	236	534
Total Analysis Volume [veh/h]	0	59	396	760	945	2136
Presence of On-Street Parking			No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	110
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	0	0	5	0	5	5
Maximum Green [s]	0	0	30	0	30	30
Amber [s]	0.0	0.0	3.0	0.0	3.0	3.0
All red [s]	0.0	0.0	1.0	0.0	1.0	1.0
Split [s]	0	0	58	0	52	58
Vehicle Extension [s]	0.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	0	0	5	0	0	5
Pedestrian Clearance [s]	0	0	10	0	0	10
Rest In Walk			No			No
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall			No		No	No
Maximum Recall			No		No	No
Pedestrian Recall			No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	L	C
C, Cycle Length [s]		110	110	110
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00
g_i, Effective Green Time [s]		54	48	54
g / C, Green / Cycle		0.49	0.44	0.49
(v / s)_i Volume / Saturation Flow Rate		0.11	0.52	0.59
s, saturation flow rate [veh/h]		3618	1810	3618
c, Capacity [veh/h]		1776	790	1776
d1, Uniform Delay [s]		16.01	31.00	28.00
k, delay calibration		0.50	0.50	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00
d2, Incremental Delay [s]		0.29	100.74	96.90
d3, Initial Queue Delay [s]		0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.22	1.20	1.20
d, Delay for Lane Group [s/veh]		16.30	131.74	124.90
Lane Group LOS		B	F	F
Critical Lane Group		No	Yes	Yes
50th-Percentile Queue Length [veh/ln]		2.89	42.18	46.00
50th-Percentile Queue Length [ft/ln]		72.23	1054.58	1150.08
95th-Percentile Queue Length [veh/ln]		5.20	59.89	65.32
95th-Percentile Queue Length [ft/ln]		130.01	1497.19	1633.00

Movement, Approach, & Intersection Results

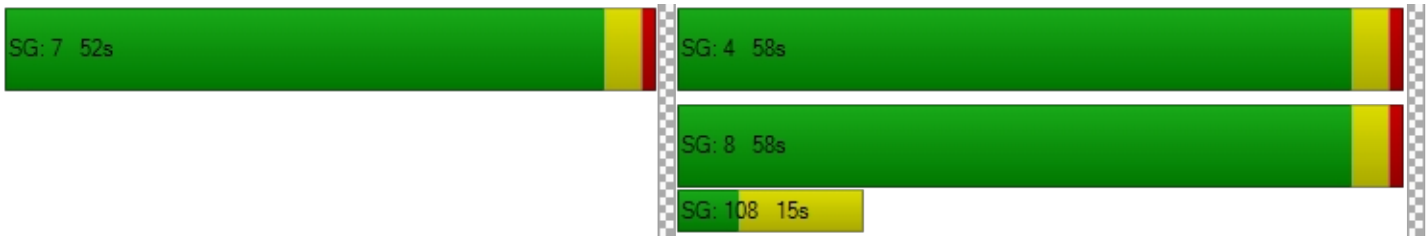
d_M, Delay for Movement [s/veh]	0.00	0.00	16.30	0.00	131.74	124.90
Movement LOS			B		F	F
d_A, Approach Delay [s/veh]	0.00		16.30		127.00	
Approach LOS	A		B		F	
d_I, Intersection Delay [s/veh]	114.39					
Intersection LOS	F					
Intersection V/C	1.200					

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	46.37	55.00	55.00
l_p,int, Pedestrian LOS Score for Intersection	2.356	2.812	2.996
Crosswalk LOS	B	C	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	55.00	55.00	55.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.459	6.674
Bicycle LOS	D	E	F

Sequence

Ring 1	7	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	1,025.8
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	3.204

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	338	0	0	495	0	121	0	0	246	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	852	0	0	972	0	405	0	0	1720	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	213	0	0	243	0	101	0	0	430	0
Total Analysis Volume [veh/h]	0	0	852	0	0	972	0	405	0	0	1720	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	1.05	0.00	0.00	3.20	0.00	0.00	0.00	0.00	0.02	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	68.10	0.00	0.00	1025.80	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			F			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	20.63	0.00	0.00	87.74	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	515.86	0.00	0.00	2193.44	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	68.10			1025.80			0.00			0.00		
Approach LOS	F			F			A			A		
d_I, Intersection Delay [s/veh]	267.18											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	58.8
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.871

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	408	589	0	679	1019	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	230	527	0	168	126	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	646	1128	0	861	1165	0
Peak Hour Factor	0.9630	0.9630	1.0000	0.9630	0.9630	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	168	0	0	224	302	0
Total Analysis Volume [veh/h]	671	0	0	894	1210	0
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-
Minimum Green [s]	9	0	0	5	15	0
Maximum Green [s]	30	0	0	50	50	0
Amber [s]	4.8	0.0	0.0	3.7	4.8	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	30	0	0	50	50	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	0	0	0	0	7	0
Pedestrian Clearance [s]	0	0	0	0	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.8	0.0	0.0	2.7	3.8	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	C
C, Cycle Length [s]	80	80	80	80
L, Total Lost Time per Cycle [s]	5.80	5.80	4.70	5.80
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.80	3.80	2.70	3.80
g_i, Effective Green Time [s]	24	24	45	44
g / C, Green / Cycle	0.30	0.30	0.57	0.55
(v / s)_i Volume / Saturation Flow Rate	0.41	0.00	0.19	0.37
s, saturation flow rate [veh/h]	1629	1454	4658	3256
c, Capacity [veh/h]	493	440	2638	1799
d1, Uniform Delay [s]	27.90	0.00	9.31	12.75
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	175.67	0.00	0.35	2.03
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	1.36	0.00	0.34	0.67
d, Delay for Lane Group [s/veh]	203.57	0.00	9.66	14.78
Lane Group LOS	F	A	A	B
Critical Lane Group	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	33.11	0.00	2.58	7.30
50th-Percentile Queue Length [ft/ln]	827.73	0.00	64.41	182.61
95th-Percentile Queue Length [veh/ln]	50.31	0.00	4.64	11.74
95th-Percentile Queue Length [ft/ln]	1257.85	0.00	115.94	293.42

Movement, Approach, & Intersection Results

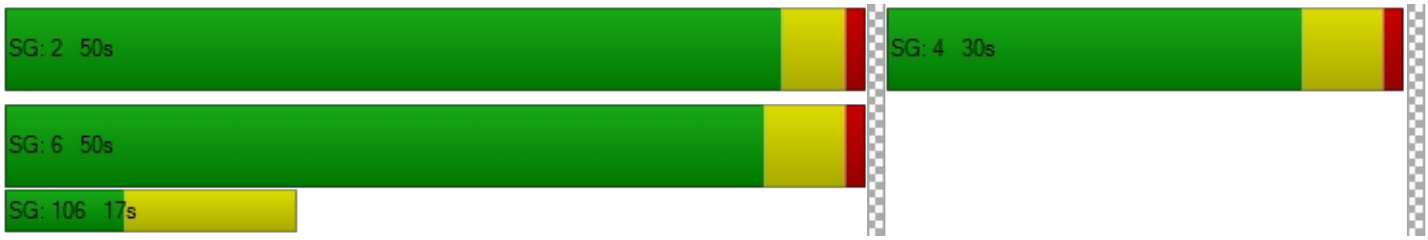
d_M, Delay for Movement [s/veh]	203.57	0.00	0.00	9.66	14.78	0.00
Movement LOS	F	A		A	B	
d_A, Approach Delay [s/veh]	203.57		9.66		14.78	
Approach LOS	F		A		B	
d_I, Intersection Delay [s/veh]	58.78					
Intersection LOS	E					
Intersection V/C	0.871					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	24.2	24.2
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	19.46	19.46
l_p,int, Pedestrian LOS Score for Intersection	1.981	2.686	2.817
Crosswalk LOS	A	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	40.00	40.00	40.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.624	5.131
Bicycle LOS	D	E	F

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	16.6
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.545

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	999	0	0	1195	248	230
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.02	1.00	1.00	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	13	0	0	34	155	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1032	0	0	1253	408	235
Peak Hour Factor	0.9780	1.0000	1.0000	0.9780	0.9780	0.9780
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	264	0	0	320	104	60
Total Analysis Volume [veh/h]	1055	0	0	1281	417	240
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	20	0	0	20	15	0
Maximum Green [s]	40	0	0	40	35	0
Amber [s]	4.3	0.0	0.0	4.3	4.1	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	40	0	0	40	35	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	7	0	0	0	0	0
Pedestrian Clearance [s]	15	0	0	0	0	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.3	0.0	0.0	3.3	3.1	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C
C, Cycle Length [s]	75	75	75	75
L, Total Lost Time per Cycle [s]	5.30	5.30	5.10	5.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.30	3.30	3.10	3.10
g_i, Effective Green Time [s]	35	35	30	30
g / C, Green / Cycle	0.46	0.46	0.40	0.40
(v / s)_i Volume / Saturation Flow Rate	0.23	0.28	0.21	0.21
s, saturation flow rate [veh/h]	4658	4658	1629	1492
c, Capacity [veh/h]	2155	2155	649	595
d1, Uniform Delay [s]	14.00	14.93	17.15	17.20
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.80	1.22	3.03	3.37
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.49	0.59	0.53	0.53
d, Delay for Lane Group [s/veh]	14.80	16.15	20.18	20.57
Lane Group LOS	B	B	C	C
Critical Lane Group	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	3.83	5.00	4.71	4.42
50th-Percentile Queue Length [ft/ln]	95.86	125.09	117.74	110.48
95th-Percentile Queue Length [veh/ln]	6.90	8.67	8.27	7.87
95th-Percentile Queue Length [ft/ln]	172.55	216.81	206.71	196.67

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	14.80	0.00	0.00	16.15	20.26	20.57
Movement LOS	B			B	C	C
d_A, Approach Delay [s/veh]	14.80		16.15		20.37	
Approach LOS	B		B		C	
d_I, Intersection Delay [s/veh]	16.60					
Intersection LOS	B					
Intersection V/C	0.545					

Other Modes

g_Walk,mi, Effective Walk Time [s]	29.9	29.9	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	13.56	13.56	27.31
l_p,int, Pedestrian LOS Score for Intersection	2.937	2.903	2.025
Crosswalk LOS	C	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	37.50	37.50	37.50
l_b,int, Bicycle LOS Score for Intersection	4.713	4.837	5.216
Bicycle LOS	E	E	F

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

5010 Azusa Canyon Road

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Report File: G:\...\SH-OYC PM.pdf

Scenario 3 Future Baseline Plus Cumulative Projects
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 SB On-Ramp (SB) at Live Oak Ave (EW)	Signalized	HCM 6th Edition	WB Left	1.032	48.1	D
2	I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)	Two-way stop	HCM 6th Edition	NB Right	1.863	421.6	F
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	HCM 6th Edition	SB Left	0.771	22.1	C
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	HCM 6th Edition	SB Thru	0.568	17.3	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 SB On-Ramp (SB) at Live Oak Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	48.1
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.032

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present			No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	1183	1209	549	898
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	95	92	484	375	213
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	95	1299	1717	935	1129
Peak Hour Factor	1.0000	1.0000	0.9430	0.9430	0.9430	0.9430
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	24	344	455	248	299
Total Analysis Volume [veh/h]	0	95	1378	1821	992	1197
Presence of On-Street Parking			No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	0	0	5	0	5	5
Maximum Green [s]	0	0	30	0	30	30
Amber [s]	0.0	0.0	3.0	0.0	3.0	3.0
All red [s]	0.0	0.0	1.0	0.0	1.0	1.0
Split [s]	0	0	34	0	46	34
Vehicle Extension [s]	0.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	0	0	5	0	0	5
Pedestrian Clearance [s]	0	0	10	0	0	10
Rest In Walk			No			No
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall			No		No	No
Maximum Recall			No		No	No
Pedestrian Recall			No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	L	C
C, Cycle Length [s]		80	80	80
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00
g_i, Effective Green Time [s]		30	42	30
g / C, Green / Cycle		0.38	0.53	0.38
(v / s)_i Volume / Saturation Flow Rate		0.38	0.55	0.33
s, saturation flow rate [veh/h]		3618	1810	3618
c, Capacity [veh/h]		1357	950	1357
d1, Uniform Delay [s]		25.00	19.00	23.35
k, delay calibration		0.50	0.50	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00
d2, Incremental Delay [s]		28.43	41.40	8.57
d3, Initial Queue Delay [s]		0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00

Lane Group Results

X, volume / capacity		1.02	1.04	0.88
d, Delay for Lane Group [s/veh]		53.43	60.40	31.92
Lane Group LOS		F	F	C
Critical Lane Group		Yes	Yes	No
50th-Percentile Queue Length [veh/ln]		17.30	26.27	11.46
50th-Percentile Queue Length [ft/ln]		432.50	656.69	286.43
95th-Percentile Queue Length [veh/ln]		24.38	35.89	17.01
95th-Percentile Queue Length [ft/ln]		609.60	897.18	425.21

Movement, Approach, & Intersection Results

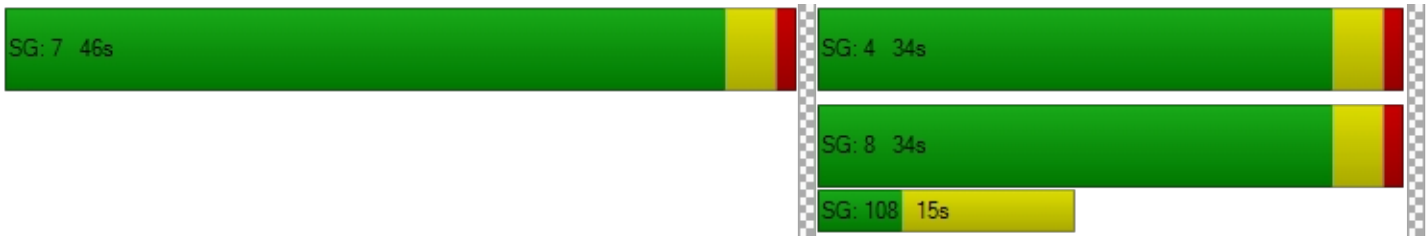
d_M, Delay for Movement [s/veh]	0.00	0.00	53.43	0.00	60.40	31.92
Movement LOS			F		F	C
d_A, Approach Delay [s/veh]	0.00		53.43		44.82	
Approach LOS	A		D		D	
d_I, Intersection Delay [s/veh]	48.15					
Intersection LOS	D					
Intersection V/C	1.032					

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	31.51	40.00	40.00
l_p,int, Pedestrian LOS Score for Intersection	2.386	2.807	3.001
Crosswalk LOS	B	C	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	40.00	40.00	40.00
l_b,int, Bicycle LOS Score for Intersection	4.132	5.269	5.938
Bicycle LOS	D	F	F

Sequence

Ring 1	7	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report

Intersection 2: I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	421.6
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.863

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	138	0	0	202	0	187	0	0	386	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	723	0	0	733	0	1394	0	0	1331	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	181	0	0	183	0	349	0	0	333	0
Total Analysis Volume [veh/h]	0	0	723	0	0	733	0	1394	0	0	1331	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	1.86	0.00	0.00	1.80	0.00	0.01	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	421.60	0.00	0.00	393.21	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			F			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	47.56	0.00	0.00	46.64	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	1188.97	0.00	0.00	1166.11	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	421.60			393.21			0.00			0.00		
Approach LOS	F			F			A			A		
d_I, Intersection Delay [s/veh]	141.84											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	22.1
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.771

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	259	241	0	1156	408	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	209	202	0	615	53	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	473	448	0	1794	469	0
Peak Hour Factor	0.9740	0.9740	1.0000	0.9740	0.9740	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	121	0	0	460	120	0
Total Analysis Volume [veh/h]	486	0	0	1842	482	0
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-
Minimum Green [s]	9	0	0	5	15	0
Maximum Green [s]	30	0	0	50	50	0
Amber [s]	4.8	0.0	0.0	3.7	4.8	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	30	0	0	50	50	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	0	0	0	0	7	0
Pedestrian Clearance [s]	0	0	0	0	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.8	0.0	0.0	2.7	3.8	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	C
C, Cycle Length [s]	80	80	80	80
L, Total Lost Time per Cycle [s]	5.80	5.80	4.70	5.80
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.80	3.80	2.70	3.80
g_i, Effective Green Time [s]	24	24	45	44
g / C, Green / Cycle	0.30	0.30	0.57	0.55
(v / s)_i Volume / Saturation Flow Rate	0.30	0.00	0.40	0.15
s, saturation flow rate [veh/h]	1629	1454	4658	3256
c, Capacity [veh/h]	493	440	2638	1799
d1, Uniform Delay [s]	27.74	0.00	12.45	9.40
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	37.35	0.00	1.56	0.37
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.99	0.00	0.70	0.27
d, Delay for Lane Group [s/veh]	65.09	0.00	14.01	9.77
Lane Group LOS	E	A	B	A
Critical Lane Group	Yes	No	Yes	No
50th-Percentile Queue Length [veh/ln]	14.01	0.00	7.24	2.09
50th-Percentile Queue Length [ft/ln]	350.19	0.00	181.04	52.21
95th-Percentile Queue Length [veh/ln]	20.15	0.00	11.66	3.76
95th-Percentile Queue Length [ft/ln]	503.64	0.00	291.38	93.99

Movement, Approach, & Intersection Results

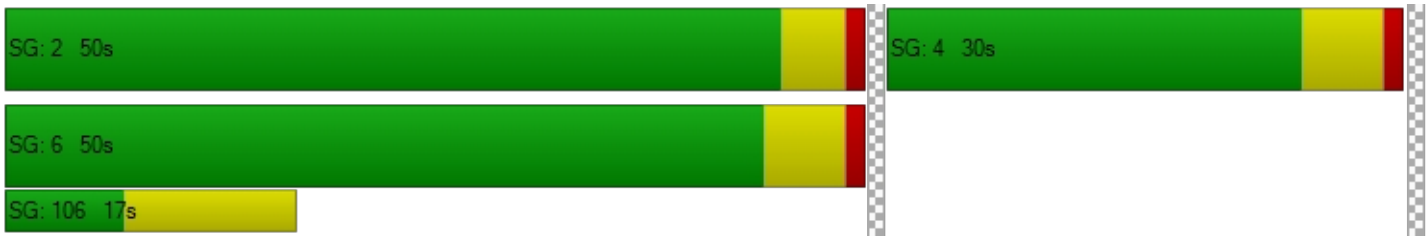
d_M, Delay for Movement [s/veh]	65.09	0.00	0.00	14.01	9.77	0.00
Movement LOS	E	A		B	A	
d_A, Approach Delay [s/veh]	65.09		14.01		9.77	
Approach LOS	E		B		A	
d_I, Intersection Delay [s/veh]	22.12					
Intersection LOS	C					
Intersection V/C	0.771					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	24.2	24.2
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	19.46	19.46
l_p,int, Pedestrian LOS Score for Intersection	1.906	2.729	2.824
Crosswalk LOS	A	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	40.00	40.00	40.00
l_b,int, Bicycle LOS Score for Intersection	4.132	5.146	4.530
Bicycle LOS	D	F	E

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	17.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.568

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	864	0	0	1501	217	208
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.02	1.00	1.00	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	28	0	0	15	66	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	909	0	0	1546	287	212
Peak Hour Factor	0.9720	1.0000	1.0000	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	234	0	0	398	74	55
Total Analysis Volume [veh/h]	935	0	0	1591	295	218
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	20	0	0	20	15	0
Maximum Green [s]	40	0	0	40	35	0
Amber [s]	4.3	0.0	0.0	4.3	4.1	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	40	0	0	40	35	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	7	0	0	0	0	0
Pedestrian Clearance [s]	15	0	0	0	0	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.3	0.0	0.0	3.3	3.1	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C
C, Cycle Length [s]	75	75	75	75
L, Total Lost Time per Cycle [s]	5.30	5.30	5.10	5.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.30	3.30	3.10	3.10
g_i, Effective Green Time [s]	35	35	30	30
g / C, Green / Cycle	0.46	0.46	0.40	0.40
(v / s)_i Volume / Saturation Flow Rate	0.20	0.34	0.17	0.17
s, saturation flow rate [veh/h]	4658	4658	1629	1470
c, Capacity [veh/h]	2155	2155	649	586
d1, Uniform Delay [s]	13.55	16.44	16.25	16.25
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.64	2.31	1.95	2.16
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.43	0.74	0.42	0.42
d, Delay for Lane Group [s/veh]	14.18	18.75	18.20	18.42
Lane Group LOS	B	B	B	B
Critical Lane Group	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	3.28	6.97	3.47	3.17
50th-Percentile Queue Length [ft/ln]	81.99	174.30	86.70	79.14
95th-Percentile Queue Length [veh/ln]	5.90	11.30	6.24	5.70
95th-Percentile Queue Length [ft/ln]	147.58	282.56	156.06	142.45

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	14.18	0.00	0.00	18.75	18.23	18.42
Movement LOS	B			B	B	B
d_A, Approach Delay [s/veh]	14.18		18.75		18.30	
Approach LOS	B		B		B	
d_I, Intersection Delay [s/veh]	17.27					
Intersection LOS	B					
Intersection V/C	0.568					

Other Modes

g_Walk,mi, Effective Walk Time [s]	29.9	29.9	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	13.56	13.56	27.31
l_p,int, Pedestrian LOS Score for Intersection	2.950	2.935	1.955
Crosswalk LOS	C	C	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	37.50	37.50	37.50
l_b,int, Bicycle LOS Score for Intersection	4.647	5.007	4.979
Bicycle LOS	E	F	E

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

5010 Azusa Canyon Road

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Scenario 6 Future Baseline Plus Cumulative Plus Project
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 SB On-Ramp (SB) at Live Oak Ave (EW)	Signalized	HCM 6th Edition	WB Left	1.200	114.4	F
2	I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)	Two-way stop	HCM 6th Edition	SB Right	3.204	1,025.8	F
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	HCM 6th Edition	SB Left	0.894	68.0	E
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	HCM 6th Edition	WB Right	0.558	16.8	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 SB On-Ramp (SB) at Live Oak Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	114.4
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.200

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present			No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	278	521	608	1306
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	59	62	133	206	535
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	59	346	664	826	1867
Peak Hour Factor	1.0000	1.0000	0.8740	0.8740	0.8740	0.8740
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	15	99	190	236	534
Total Analysis Volume [veh/h]	0	59	396	760	945	2136
Presence of On-Street Parking			No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	110
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	0	0	5	0	5	5
Maximum Green [s]	0	0	30	0	30	30
Amber [s]	0.0	0.0	3.0	0.0	3.0	3.0
All red [s]	0.0	0.0	1.0	0.0	1.0	1.0
Split [s]	0	0	58	0	52	58
Vehicle Extension [s]	0.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	0	0	5	0	0	5
Pedestrian Clearance [s]	0	0	10	0	0	10
Rest In Walk			No			No
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall			No		No	No
Maximum Recall			No		No	No
Pedestrian Recall			No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	L	C
C, Cycle Length [s]		110	110	110
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00
g_i, Effective Green Time [s]		54	48	54
g / C, Green / Cycle		0.49	0.44	0.49
(v / s)_i Volume / Saturation Flow Rate		0.11	0.52	0.59
s, saturation flow rate [veh/h]		3618	1810	3618
c, Capacity [veh/h]		1776	790	1776
d1, Uniform Delay [s]		16.01	31.00	28.00
k, delay calibration		0.50	0.50	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00
d2, Incremental Delay [s]		0.29	100.74	96.90
d3, Initial Queue Delay [s]		0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.22	1.20	1.20
d, Delay for Lane Group [s/veh]		16.30	131.74	124.90
Lane Group LOS		B	F	F
Critical Lane Group		No	Yes	Yes
50th-Percentile Queue Length [veh/ln]		2.89	42.18	46.00
50th-Percentile Queue Length [ft/ln]		72.23	1054.58	1150.08
95th-Percentile Queue Length [veh/ln]		5.20	59.89	65.32
95th-Percentile Queue Length [ft/ln]		130.01	1497.19	1633.00

Movement, Approach, & Intersection Results

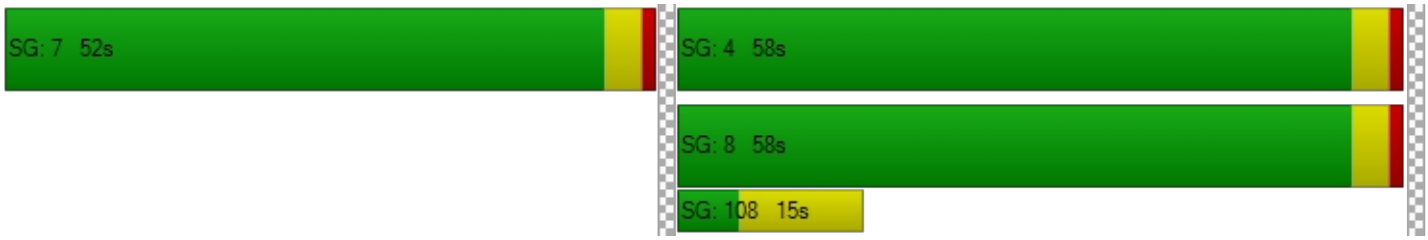
d_M, Delay for Movement [s/veh]	0.00	0.00	16.30	0.00	131.74	124.90
Movement LOS			B		F	F
d_A, Approach Delay [s/veh]	0.00		16.30		127.00	
Approach LOS	A		B		F	
d_I, Intersection Delay [s/veh]	114.39					
Intersection LOS	F					
Intersection V/C	1.200					

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	46.37	55.00	55.00
l_p,int, Pedestrian LOS Score for Intersection	2.356	2.812	2.996
Crosswalk LOS	B	C	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	55.00	55.00	55.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.459	6.674
Bicycle LOS	D	E	F

Sequence

Ring 1	7	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	1,025.8
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	3.204

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	63	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	373	0	0	495	0	121	0	0	246	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	950	0	0	972	0	405	0	0	1720	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	238	0	0	243	0	101	0	0	430	0
Total Analysis Volume [veh/h]	0	0	950	0	0	972	0	405	0	0	1720	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	1.17	0.00	0.00	3.20	0.00	0.00	0.00	0.00	0.02	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	109.98	0.00	0.00	1025.80	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			F			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	29.48	0.00	0.00	87.74	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	737.08	0.00	0.00	2193.44	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	109.98			1025.80			0.00			0.00		
Approach LOS	F			F			A			A		
d_I, Intersection Delay [s/veh]	272.19											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	68.0
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.894

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	408	589	0	679	1019	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	33	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	230	527	0	168	126	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	679	1128	0	861	1165	0
Peak Hour Factor	0.9630	0.9630	1.0000	0.9630	0.9630	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	176	0	0	224	302	0
Total Analysis Volume [veh/h]	705	0	0	894	1210	0
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-
Minimum Green [s]	9	0	0	5	15	0
Maximum Green [s]	30	0	0	50	50	0
Amber [s]	4.8	0.0	0.0	3.7	4.8	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	30	0	0	50	50	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	0	0	0	0	7	0
Pedestrian Clearance [s]	0	0	0	0	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.8	0.0	0.0	2.7	3.8	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	C
C, Cycle Length [s]	80	80	80	80
L, Total Lost Time per Cycle [s]	5.80	5.80	4.70	5.80
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.80	3.80	2.70	3.80
g_i, Effective Green Time [s]	24	24	45	44
g / C, Green / Cycle	0.30	0.30	0.57	0.55
(v / s)_i Volume / Saturation Flow Rate	0.43	0.00	0.19	0.37
s, saturation flow rate [veh/h]	1629	1454	4658	3256
c, Capacity [veh/h]	493	440	2638	1799
d1, Uniform Delay [s]	27.90	0.00	9.31	12.75
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	205.43	0.00	0.35	2.03
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	1.43	0.00	0.34	0.67
d, Delay for Lane Group [s/veh]	233.33	0.00	9.66	14.78
Lane Group LOS	F	A	A	B
Critical Lane Group	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	37.18	0.00	2.58	7.30
50th-Percentile Queue Length [ft/ln]	929.55	0.00	64.41	182.61
95th-Percentile Queue Length [veh/ln]	56.96	0.00	4.64	11.74
95th-Percentile Queue Length [ft/ln]	1424.10	0.00	115.94	293.42

Movement, Approach, & Intersection Results

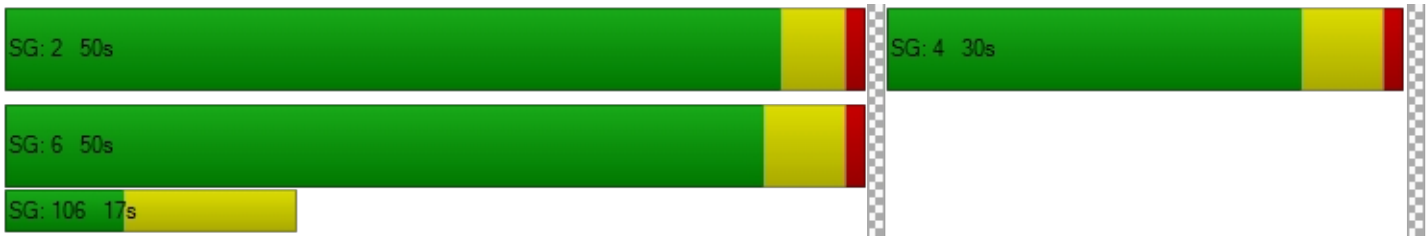
d_M, Delay for Movement [s/veh]	233.33	0.00	0.00	9.66	14.78	0.00
Movement LOS	F	A		A	B	
d_A, Approach Delay [s/veh]	233.33		9.66		14.78	
Approach LOS	F		A		B	
d_I, Intersection Delay [s/veh]	68.00					
Intersection LOS	E					
Intersection V/C	0.894					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	24.2	24.2
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	19.46	19.46
l_p,int, Pedestrian LOS Score for Intersection	1.995	2.686	2.824
Crosswalk LOS	A	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	40.00	40.00	40.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.624	5.131
Bicycle LOS	D	E	F

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	16.8
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.558

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	999	0	0	1195	248	230
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.02	1.00	1.00	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	35	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	13	0	0	34	155	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	1032	0	0	1253	443	235
Peak Hour Factor	0.9780	1.0000	1.0000	0.9780	0.9780	0.9780
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	264	0	0	320	113	60
Total Analysis Volume [veh/h]	1055	0	0	1281	453	240
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	20	0	0	20	15	0
Maximum Green [s]	40	0	0	40	35	0
Amber [s]	4.3	0.0	0.0	4.3	4.1	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	40	0	0	40	35	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	7	0	0	0	0	0
Pedestrian Clearance [s]	15	0	0	0	0	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.3	0.0	0.0	3.3	3.1	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C
C, Cycle Length [s]	75	75	75	75
L, Total Lost Time per Cycle [s]	5.30	5.30	5.10	5.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.30	3.30	3.10	3.10
g_i, Effective Green Time [s]	35	35	30	30
g / C, Green / Cycle	0.46	0.46	0.40	0.40
(v / s)_i Volume / Saturation Flow Rate	0.23	0.28	0.22	0.22
s, saturation flow rate [veh/h]	4658	4658	1629	1499
c, Capacity [veh/h]	2155	2155	649	598
d1, Uniform Delay [s]	14.00	14.93	17.39	17.46
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.80	1.22	3.36	3.76
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.49	0.59	0.55	0.56
d, Delay for Lane Group [s/veh]	14.80	16.15	20.75	21.21
Lane Group LOS	B	B	C	C
Critical Lane Group	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	3.83	5.00	5.04	4.78
50th-Percentile Queue Length [ft/ln]	95.86	125.09	125.96	119.43
95th-Percentile Queue Length [veh/ln]	6.90	8.67	8.72	8.36
95th-Percentile Queue Length [ft/ln]	172.55	216.81	217.99	209.04

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	14.80	0.00	0.00	16.15	20.85	21.21
Movement LOS	B			B	C	C
d_A, Approach Delay [s/veh]	14.80		16.15		20.97	
Approach LOS	B		B		C	
d_I, Intersection Delay [s/veh]	16.78					
Intersection LOS	B					
Intersection V/C	0.558					

Other Modes

g_Walk,mi, Effective Walk Time [s]	29.9	29.9	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	13.56	13.56	27.31
l_p,int, Pedestrian LOS Score for Intersection	2.943	2.903	2.043
Crosswalk LOS	C	C	B
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	37.50	37.50	37.50
l_b,int, Bicycle LOS Score for Intersection	4.713	4.837	5.276
Bicycle LOS	E	E	F

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

5010 Azusa Canyon Road

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Report File: G:\...\SH-OYCPi AM.pdf

Scenario 6 Future Baseline Plus Cumulative Plus Project
6/12/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 SB On-Ramp (SB) at Live Oak Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.943	29.5	C
2	I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)	Signalized	HCM 6th Edition	SB Right	0.906	44.0	D
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	HCM 6th Edition	WB Thru	0.686	16.6	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 SB On-Ramp (SB) at Live Oak Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	29.5
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.943

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present			No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	278	521	608	1306
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	59	62	133	206	535
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	59	346	664	826	1867
Peak Hour Factor	1.0000	1.0000	0.8740	0.8740	0.8740	0.8740
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	15	99	190	236	534
Total Analysis Volume [veh/h]	0	59	396	760	945	2136
Presence of On-Street Parking			No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	1 - Coordination Group
Cycle Length [s]	90
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	0	0	5	0	5	5
Maximum Green [s]	0	0	30	0	30	30
Amber [s]	0.0	0.0	3.0	0.0	3.0	3.0
All red [s]	0.0	0.0	1.0	0.0	1.0	1.0
Split [s]	0	0	60	0	30	60
Vehicle Extension [s]	0.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	0	0	5	0	0	5
Pedestrian Clearance [s]	0	0	10	0	0	10
Rest In Walk			No			No
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall			No		No	No
Maximum Recall			No		No	No
Pedestrian Recall			No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	L	C
C, Cycle Length [s]		90	90	90
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00
g_i, Effective Green Time [s]		56	26	56
g / C, Green / Cycle		0.62	0.29	0.62
(v / s)_i Volume / Saturation Flow Rate		0.11	0.27	0.59
s, saturation flow rate [veh/h]		3618	3514	3618
c, Capacity [veh/h]		2251	1015	2251
d1, Uniform Delay [s]		7.21	31.13	15.68
k, delay calibration		0.50	0.50	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00
d2, Incremental Delay [s]		0.17	15.82	10.27
d3, Initial Queue Delay [s]		0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.18	0.93	0.95
d, Delay for Lane Group [s/veh]		7.38	46.95	25.95
Lane Group LOS		A	D	C
Critical Lane Group		No	Yes	Yes
50th-Percentile Queue Length [veh/ln]		1.51	11.86	20.32
50th-Percentile Queue Length [ft/ln]		37.80	296.42	507.95
95th-Percentile Queue Length [veh/ln]		2.72	17.50	27.71
95th-Percentile Queue Length [ft/ln]		68.04	437.60	692.76

Movement, Approach, & Intersection Results

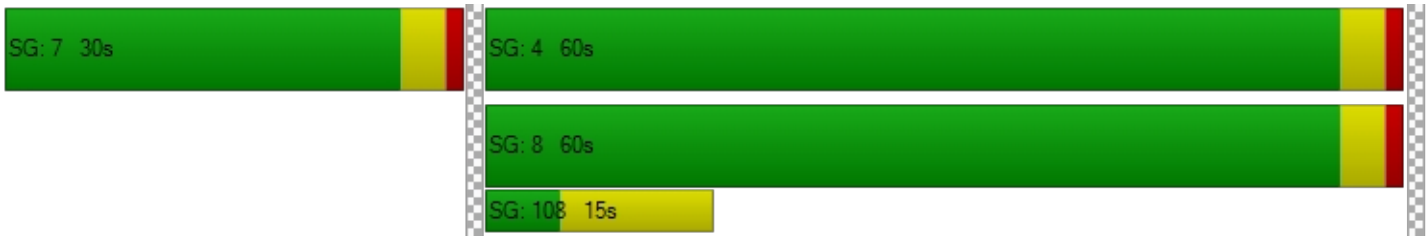
d_M, Delay for Movement [s/veh]	0.00	0.00	7.38	0.00	46.95	25.95
Movement LOS			A		D	C
d_A, Approach Delay [s/veh]	0.00		7.38		32.39	
Approach LOS	A		A		C	
d_I, Intersection Delay [s/veh]	29.54					
Intersection LOS	C					
Intersection V/C	0.943					

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	36.45	45.00	45.00
l_p,int, Pedestrian LOS Score for Intersection	2.177	2.804	3.028
Crosswalk LOS	B	C	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	45.00	45.00	45.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.459	6.674
Bicycle LOS	D	E	F

Sequence

Ring 1	7	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	44.0
Analysis Method:	HCM 6th Edition	Level Of Service:	D
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.906

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	504	0	0	468	0	278	0	0	1445	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	63	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	373	0	0	495	0	121	0	0	246	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	950	0	0	972	0	405	0	0	1720	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	238	0	0	243	0	101	0	0	430	0
Total Analysis Volume [veh/h]	0	0	950	0	0	972	0	405	0	0	1720	0
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	1 - Coordination Group
Cycle Length [s]	90
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	88.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	0	2	0	0	6	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	0	5	0	0	5	0	5	0	0	5	0
Maximum Green [s]	0	0	30	0	0	30	0	30	0	0	30	0
Amber [s]	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	0	38	0	0	38	0	52	0	0	52	0
Vehicle Extension [s]	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	0	5	0	0	5	0	5	0	0	5	0
Pedestrian Clearance [s]	0	0	10	0	0	10	0	10	0	0	10	0
Rest In Walk			No			No		No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall			No			No		No			No	
Maximum Recall			No			No		No			No	
Pedestrian Recall			No			No		No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	R	R	C	C
C, Cycle Length [s]	90	90	90	90
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	34	34	48	48
g / C, Green / Cycle	0.38	0.38	0.53	0.53
(v / s)_i Volume / Saturation Flow Rate	0.37	0.38	0.12	0.53
s, saturation flow rate [veh/h]	2573	2573	3256	3256
c, Capacity [veh/h]	972	972	1736	1736
d1, Uniform Delay [s]	27.62	28.00	11.19	20.78
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	23.92	28.89	0.32	19.47
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.98	1.00	0.23	0.99
d, Delay for Lane Group [s/veh]	51.54	56.89	11.51	40.24
Lane Group LOS	D	F	B	D
Critical Lane Group	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	12.77	13.80	2.11	20.71
50th-Percentile Queue Length [ft/ln]	319.28	344.91	52.68	517.68
95th-Percentile Queue Length [veh/ln]	18.63	19.89	3.79	28.17
95th-Percentile Queue Length [ft/ln]	465.80	497.23	94.82	704.25

Movement, Approach, & Intersection Results

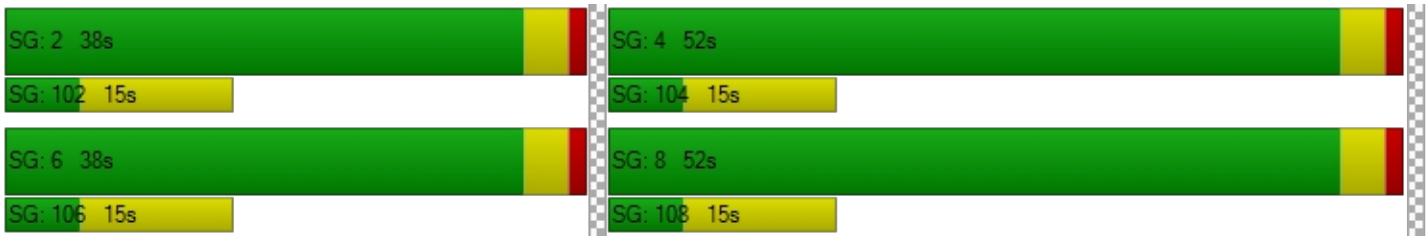
d_M, Delay for Movement [s/veh]	0.00	0.00	51.54	0.00	0.00	56.89	0.00	11.51	0.00	0.00	40.24	0.00
Movement LOS			D			F		B			D	
d_A, Approach Delay [s/veh]	51.54			56.89			11.51			40.24		
Approach LOS	D			E			B			D		
d_I, Intersection Delay [s/veh]	44.02											
Intersection LOS	D											
Intersection V/C	0.906											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	36.45	36.45	36.45	36.45
l_p,int, Pedestrian LOS Score for Intersection	2.179	2.190	2.958	2.901
Crosswalk LOS	B	B	C	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	1067	1067
d_b, Bicycle Delay [s]	45.00	45.00	9.80	9.80
l_b,int, Bicycle LOS Score for Intersection	4.132	4.132	1.894	2.979
Bicycle LOS	D	D	A	C

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	16.6
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.686

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	408	589	0	679	1019	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	33	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	230	527	0	168	126	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	679	1128	0	861	1165	0
Peak Hour Factor	0.9630	0.9630	1.0000	0.9630	0.9630	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	176	0	0	224	302	0
Total Analysis Volume [veh/h]	705	0	0	894	1210	0
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-
Minimum Green [s]	9	0	0	5	15	0
Maximum Green [s]	30	0	0	50	50	0
Amber [s]	4.8	0.0	0.0	3.7	4.8	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	27	0	0	33	33	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	0	0	0	0	7	0
Pedestrian Clearance [s]	0	0	0	0	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.8	0.0	0.0	2.7	3.8	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	C
C, Cycle Length [s]	60	60	60	60
L, Total Lost Time per Cycle [s]	5.80	5.80	4.70	5.80
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.80	3.80	2.70	3.80
g_i, Effective Green Time [s]	21	21	28	27
g / C, Green / Cycle	0.35	0.35	0.47	0.45
(v / s)_i Volume / Saturation Flow Rate	0.22	0.00	0.19	0.37
s, saturation flow rate [veh/h]	3163	1454	4658	3256
c, Capacity [veh/h]	1117	514	2197	1476
d1, Uniform Delay [s]	16.14	0.00	10.36	14.27
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	2.71	0.00	0.56	5.21
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.63	0.00	0.41	0.82
d, Delay for Lane Group [s/veh]	18.85	0.00	10.92	19.48
Lane Group LOS	B	A	B	B
Critical Lane Group	Yes	No	No	Yes
50th-Percentile Queue Length [veh/ln]	4.10	0.00	2.30	7.06
50th-Percentile Queue Length [ft/ln]	102.59	0.00	57.44	176.60
95th-Percentile Queue Length [veh/ln]	7.39	0.00	4.14	11.42
95th-Percentile Queue Length [ft/ln]	184.66	0.00	103.40	285.57

Movement, Approach, & Intersection Results

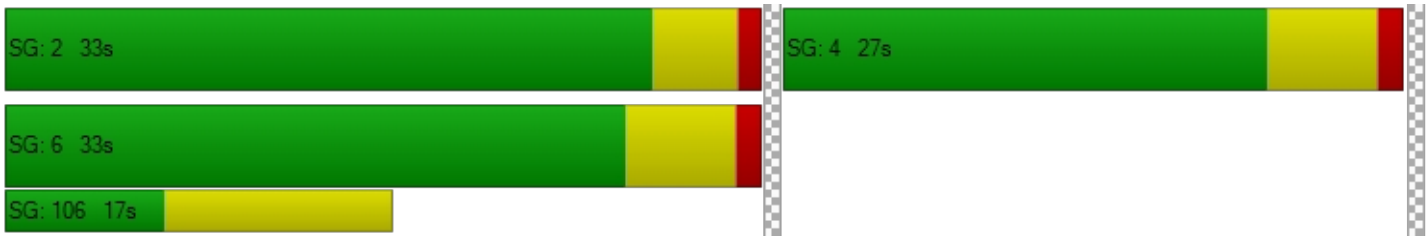
d_M, Delay for Movement [s/veh]	18.85	0.00	0.00	10.92	19.48	0.00
Movement LOS	B	A		B	B	
d_A, Approach Delay [s/veh]	18.85		10.92		19.48	
Approach LOS	B		B		B	
d_I, Intersection Delay [s/veh]	16.60					
Intersection LOS	B					
Intersection V/C	0.686					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	21.2	21.2
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	20.01	12.55	12.55
l_p,int, Pedestrian LOS Score for Intersection	2.109	2.669	2.806
Crosswalk LOS	B	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	4.132	4.624	5.131
Bicycle LOS	D	E	F

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



5010 Azusa Canyon Road

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Scenario 6 Future Baseline Plus Cumulative Plus Project
6/11/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 SB On-Ramp (SB) at Live Oak Ave (EW)	Signalized	HCM 6th Edition	WB Left	1.053	56.1	E
2	I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)	Two-way stop	HCM 6th Edition	SB Right	1.873	425.8	F
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	HCM 6th Edition	SB Left	0.771	22.1	C
116	Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)	Signalized	HCM 6th Edition	SB Thru	0.568	17.3	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 SB On-Ramp (SB) at Live Oak Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	56.1
Analysis Method:	HCM 6th Edition	Level Of Service:	E
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.053

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present			No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	1183	1209	549	898
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	52	0
Site-Generated Trips [veh/h]	0	95	92	484	375	213
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	95	1299	1717	987	1129
Peak Hour Factor	1.0000	1.0000	0.9430	0.9430	0.9430	0.9430
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	24	344	455	262	299
Total Analysis Volume [veh/h]	0	95	1378	1821	1047	1197
Presence of On-Street Parking			No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	-
Cycle Length [s]	90
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	0	0	5	0	5	5
Maximum Green [s]	0	0	30	0	30	30
Amber [s]	0.0	0.0	3.0	0.0	3.0	3.0
All red [s]	0.0	0.0	1.0	0.0	1.0	1.0
Split [s]	0	0	37	0	53	37
Vehicle Extension [s]	0.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	0	0	5	0	0	5
Pedestrian Clearance [s]	0	0	10	0	0	10
Rest In Walk			No			No
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall			No		No	No
Maximum Recall			No		No	No
Pedestrian Recall			No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	L	C
C, Cycle Length [s]		90	90	90
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00
g_i, Effective Green Time [s]		33	49	33
g / C, Green / Cycle		0.37	0.54	0.37
(v / s)_i Volume / Saturation Flow Rate		0.38	0.58	0.33
s, saturation flow rate [veh/h]		3618	1810	3618
c, Capacity [veh/h]		1326	985	1326
d1, Uniform Delay [s]		28.50	20.50	26.98
k, delay calibration		0.50	0.50	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00
d2, Incremental Delay [s]		35.41	46.88	10.19
d3, Initial Queue Delay [s]		0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00

Lane Group Results

X, volume / capacity		1.04	1.06	0.90
d, Delay for Lane Group [s/veh]		63.91	67.38	37.16
Lane Group LOS		F	F	D
Critical Lane Group		Yes	Yes	No
50th-Percentile Queue Length [veh/ln]		20.08	31.22	13.46
50th-Percentile Queue Length [ft/ln]		502.07	780.51	336.47
95th-Percentile Queue Length [veh/ln]		28.16	42.42	19.48
95th-Percentile Queue Length [ft/ln]		704.03	1060.48	486.89

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	0.00	0.00	63.91	0.00	67.38	37.16
Movement LOS			F		F	D
d_A, Approach Delay [s/veh]	0.00		63.91		51.26	
Approach LOS	A		E		D	
d_I, Intersection Delay [s/veh]	56.07					
Intersection LOS	E					
Intersection V/C	1.053					

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	36.45	45.00	45.00
l_p,int, Pedestrian LOS Score for Intersection	2.446	2.812	3.016
Crosswalk LOS	B	C	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	45.00	45.00	45.00
l_b,int, Bicycle LOS Score for Intersection	4.132	5.269	5.984
Bicycle LOS	D	F	F

Sequence

Ring 1	7	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Intersection Level Of Service Report

Intersection 2: I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)

Control Type:	Two-way stop	Delay (sec / veh):	425.8
Analysis Method:	HCM 6th Edition	Level Of Service:	F
Analysis Period:	15 minutes	Volume to Capacity (v/c):	1.873

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	2	0	0	0	0	0	0	0	52	0
Site-Generated Trips [veh/h]	0	0	138	0	0	202	0	187	0	0	386	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	725	0	0	733	0	1394	0	0	1383	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	181	0	0	183	0	349	0	0	346	0
Total Analysis Volume [veh/h]	0	0	725	0	0	733	0	1394	0	0	1383	0
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Priority Scheme	Stop	Stop	Free	Free
Flared Lane				
Storage Area [veh]	0	0	0	0
Two-Stage Gap Acceptance	No	No		
Number of Storage Spaces in Median	0	0	0	0

Movement, Approach, & Intersection Results

V/C, Movement V/C Ratio	0.00	0.00	1.87	0.00	0.00	1.87	0.00	0.01	0.00	0.00	0.01	0.00
d_M, Delay for Movement [s/veh]	0.00	0.00	423.86	0.00	0.00	425.85	0.00	0.00	0.00	0.00	0.00	0.00
Movement LOS			F			F		A			A	
95th-Percentile Queue Length [veh/ln]	0.00	0.00	47.80	0.00	0.00	48.39	0.00	0.00	0.00	0.00	0.00	0.00
95th-Percentile Queue Length [ft/ln]	0.00	0.00	1194.90	0.00	0.00	1209.63	0.00	0.00	0.00	0.00	0.00	0.00
d_A, Approach Delay [s/veh]	423.86			425.85			0.00			0.00		
Approach LOS	F			F			A			A		
d_I, Intersection Delay [s/veh]	146.27											
Intersection LOS	F											

Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	22.1
Analysis Method:	HCM 6th Edition	Level Of Service:	C
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.771

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	259	241	0	1156	408	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	209	202	0	615	53	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	473	448	0	1794	469	0
Peak Hour Factor	0.9740	0.9740	1.0000	0.9740	0.9740	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	121	0	0	460	120	0
Total Analysis Volume [veh/h]	486	0	0	1842	482	0
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-
Minimum Green [s]	9	0	0	5	15	0
Maximum Green [s]	30	0	0	50	50	0
Amber [s]	4.8	0.0	0.0	3.7	4.8	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	30	0	0	50	50	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	0	0	0	0	7	0
Pedestrian Clearance [s]	0	0	0	0	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.8	0.0	0.0	2.7	3.8	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	C
C, Cycle Length [s]	80	80	80	80
L, Total Lost Time per Cycle [s]	5.80	5.80	4.70	5.80
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.80	3.80	2.70	3.80
g_i, Effective Green Time [s]	24	24	45	44
g / C, Green / Cycle	0.30	0.30	0.57	0.55
(v / s)_i Volume / Saturation Flow Rate	0.30	0.00	0.40	0.15
s, saturation flow rate [veh/h]	1629	1454	4658	3256
c, Capacity [veh/h]	493	440	2638	1799
d1, Uniform Delay [s]	27.74	0.00	12.45	9.40
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	37.35	0.00	1.56	0.37
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.99	0.00	0.70	0.27
d, Delay for Lane Group [s/veh]	65.09	0.00	14.01	9.77
Lane Group LOS	E	A	B	A
Critical Lane Group	Yes	No	Yes	No
50th-Percentile Queue Length [veh/ln]	14.01	0.00	7.24	2.09
50th-Percentile Queue Length [ft/ln]	350.19	0.00	181.04	52.21
95th-Percentile Queue Length [veh/ln]	20.15	0.00	11.66	3.76
95th-Percentile Queue Length [ft/ln]	503.64	0.00	291.38	93.99

Movement, Approach, & Intersection Results

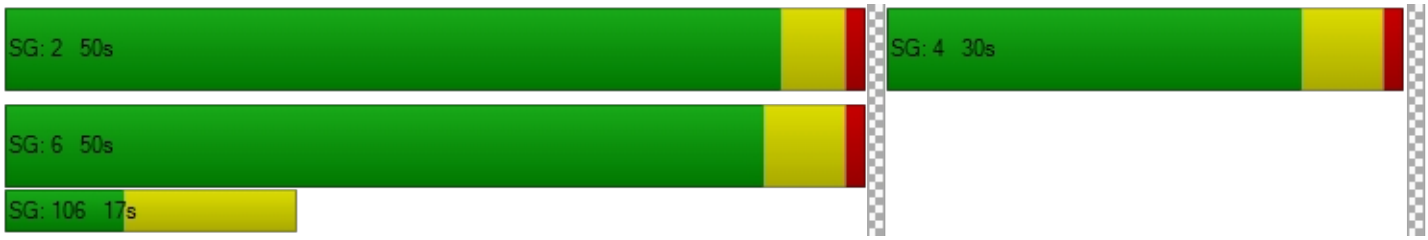
d_M, Delay for Movement [s/veh]	65.09	0.00	0.00	14.01	9.77	0.00
Movement LOS	E	A		B	A	
d_A, Approach Delay [s/veh]	65.09		14.01		9.77	
Approach LOS	E		B		A	
d_I, Intersection Delay [s/veh]	22.12					
Intersection LOS	C					
Intersection V/C	0.771					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	24.2	24.2
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	19.46	19.46
l_p,int, Pedestrian LOS Score for Intersection	1.906	2.729	2.824
Crosswalk LOS	A	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	40.00	40.00	40.00
l_b,int, Bicycle LOS Score for Intersection	4.132	5.146	4.530
Bicycle LOS	D	F	E

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 116: Irwindale Ave (NS) at I-210 WB Off-Ramp (WB)

Control Type:	Signalized	Delay (sec / veh):	17.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.568

Intersection Setup

Name						
Approach	Northbound		Southbound		Westbound	
Lane Configuration						
Turning Movement	Thru	Right	Left	Thru	Left	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	35.00		35.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	864	0	0	1501	217	208
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	2.00	2.00	0.00	0.00	0.00
Growth Rate	1.02	1.00	1.00	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	1	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	28	0	0	15	66	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	909	0	0	1546	288	212
Peak Hour Factor	0.9720	1.0000	1.0000	0.9720	0.9720	0.9720
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	234	0	0	398	74	55
Total Analysis Volume [veh/h]	935	0	0	1591	296	218
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	75
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Permissive	Permissive	Permissive
Signal group	2	0	0	6	4	0
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	20	0	0	20	15	0
Maximum Green [s]	40	0	0	40	35	0
Amber [s]	4.3	0.0	0.0	4.3	4.1	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	40	0	0	40	35	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	7	0	0	0	0	0
Pedestrian Clearance [s]	15	0	0	0	0	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.3	0.0	0.0	3.3	3.1	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	C	C	L	C
C, Cycle Length [s]	75	75	75	75
L, Total Lost Time per Cycle [s]	5.30	5.30	5.10	5.10
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.30	3.30	3.10	3.10
g_i, Effective Green Time [s]	35	35	30	30
g / C, Green / Cycle	0.46	0.46	0.40	0.40
(v / s)_i Volume / Saturation Flow Rate	0.20	0.34	0.17	0.17
s, saturation flow rate [veh/h]	4658	4658	1629	1470
c, Capacity [veh/h]	2155	2155	649	586
d1, Uniform Delay [s]	13.55	16.44	16.26	16.26
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	0.64	2.31	1.96	2.17
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.43	0.74	0.42	0.42
d, Delay for Lane Group [s/veh]	14.18	18.75	18.22	18.43
Lane Group LOS	B	B	B	B
Critical Lane Group	No	Yes	No	Yes
50th-Percentile Queue Length [veh/ln]	3.28	6.97	3.48	3.17
50th-Percentile Queue Length [ft/ln]	81.99	174.30	86.90	79.34
95th-Percentile Queue Length [veh/ln]	5.90	11.30	6.26	5.71
95th-Percentile Queue Length [ft/ln]	147.58	282.56	156.42	142.80

Movement, Approach, & Intersection Results

d_M, Delay for Movement [s/veh]	14.18	0.00	0.00	18.75	18.24	18.43
Movement LOS	B			B	B	B
d_A, Approach Delay [s/veh]	14.18		18.75		18.32	
Approach LOS	B		B		B	
d_I, Intersection Delay [s/veh]	17.27					
Intersection LOS	B					
Intersection V/C	0.568					

Other Modes

g_Walk,mi, Effective Walk Time [s]	29.9	29.9	11.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	13.56	13.56	27.31
l_p,int, Pedestrian LOS Score for Intersection	2.950	2.935	1.955
Crosswalk LOS	C	C	A
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	37.50	37.50	37.50
l_b,int, Bicycle LOS Score for Intersection	4.647	5.007	4.981
Bicycle LOS	E	F	E

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

5010 Azusa Canyon Road

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Report File: G:\...\SH-OYCPi PM.pdf

Scenario 6 Future Baseline Plus Cumulative Plus Project
6/12/2019

Intersection Analysis Summary

ID	Intersection Name	Control Type	Method	Worst Mvmt	V/C	Delay (s/veh)	LOS
1	I-605 SB On-Ramp (SB) at Live Oak Ave (EW)	Signalized	HCM 6th Edition	WB Left	0.783	17.0	B
2	I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)	Signalized	HCM 6th Edition	SB Right	0.713	19.9	B
115	I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)	Signalized	HCM 6th Edition	SB Left	0.610	15.2	B

V/C, Delay, LOS: For two-way stop, these values are taken from the movement with the worst (highest) delay value. For all other control types, they are taken for the whole intersection.

Intersection Level Of Service Report
Intersection 1: I-605 SB On-Ramp (SB) at Live Oak Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	17.0
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.783

Intersection Setup

Name						
Approach	Northbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Thru	Right	Left	Thru
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present			No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	0	0	1183	1209	549	898
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	0.00	0.00	0.00
Growth Rate	1.00	1.00	1.02	1.02	1.02	1.02
In-Process Volume [veh/h]	0	0	0	0	52	0
Site-Generated Trips [veh/h]	0	95	92	484	375	213
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	95	1299	1717	987	1129
Peak Hour Factor	1.0000	1.0000	0.9430	0.9430	0.9430	0.9430
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	24	344	455	262	299
Total Analysis Volume [veh/h]	0	95	1378	1821	1047	1197
Presence of On-Street Parking			No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	No
Signal Coordination Group	1 - Coordination Group
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Permissive	Permissive	Permissive	Unsignalized	Protected	Permissive
Signal group	5	0	8	0	7	4
Auxiliary Signal Groups						
Lead / Lag	-	-	-	-	Lead	-
Minimum Green [s]	0	0	5	0	5	5
Maximum Green [s]	0	0	30	0	30	30
Amber [s]	0.0	0.0	3.0	0.0	3.0	3.0
All red [s]	0.0	0.0	1.0	0.0	1.0	1.0
Split [s]	0	0	33	0	27	33
Vehicle Extension [s]	0.0	0.0	3.0	0.0	3.0	3.0
Walk [s]	0	0	5	0	0	5
Pedestrian Clearance [s]	0	0	10	0	0	10
Rest In Walk			No			No
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	0.0	2.0	2.0
Minimum Recall			No		No	No
Maximum Recall			No		No	No
Pedestrian Recall			No		No	No
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group		C	L	C
C, Cycle Length [s]		60	60	60
L, Total Lost Time per Cycle [s]		4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]		0.00	0.00	0.00
l2, Clearance Lost Time [s]		2.00	2.00	2.00
g_i, Effective Green Time [s]		29	23	29
g / C, Green / Cycle		0.48	0.38	0.48
(v / s)_i Volume / Saturation Flow Rate		0.38	0.30	0.33
s, saturation flow rate [veh/h]		3618	3514	3618
c, Capacity [veh/h]		1749	1347	1749
d1, Uniform Delay [s]		12.94	16.25	11.97
k, delay calibration		0.50	0.50	0.50
I, Upstream Filtering Factor		1.00	1.00	1.00
d2, Incremental Delay [s]		3.69	4.46	2.20
d3, Initial Queue Delay [s]		0.00	0.00	0.00
Rp, platoon ratio		1.00	1.00	1.00
PF, progression factor		1.00	1.00	1.00

Lane Group Results

X, volume / capacity		0.79	0.78	0.68
d, Delay for Lane Group [s/veh]		16.62	20.71	14.17
Lane Group LOS		B	C	B
Critical Lane Group		Yes	Yes	No
50th-Percentile Queue Length [veh/ln]		7.27	6.35	5.66
50th-Percentile Queue Length [ft/ln]		181.72	158.71	141.42
95th-Percentile Queue Length [veh/ln]		11.69	10.48	9.56
95th-Percentile Queue Length [ft/ln]		292.26	262.01	238.94

Movement, Approach, & Intersection Results

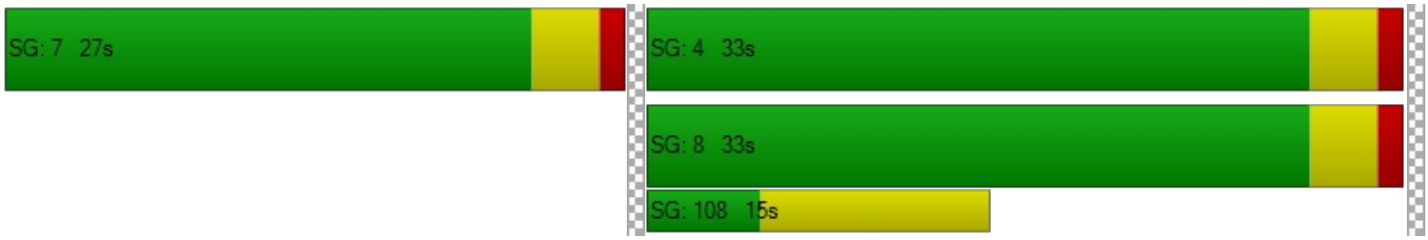
d_M, Delay for Movement [s/veh]	0.00	0.00	16.62	0.00	20.71	14.17
Movement LOS			B		C	B
d_A, Approach Delay [s/veh]	0.00		16.62		17.22	
Approach LOS	A		B		B	
d_I, Intersection Delay [s/veh]	16.99					
Intersection LOS	B					
Intersection V/C	0.783					

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	0.0	0.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	21.68	30.00	30.00
l_p,int, Pedestrian LOS Score for Intersection	2.206	2.796	3.035
Crosswalk LOS	B	C	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	30.00	30.00	30.00
l_b,int, Bicycle LOS Score for Intersection	4.132	5.269	5.984
Bicycle LOS	D	F	F

Sequence

Ring 1	7	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 2: I-605 NB Off-Ramps (NS) at Live Oak Ave (EW)

Control Type:	Signalized	Delay (sec / veh):	19.9
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.713

Intersection Setup

Name											
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Curb Present	No			No			No			No		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name												
Base Volume Input [veh/h]	0	0	574	0	0	521	0	1183	0	0	926	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	0.00	2.00	2.00	0.00	2.00	0.00	2.00	2.00	0.00	2.00
Growth Rate	1.00	1.00	1.02	1.00	1.00	1.02	1.00	1.02	1.00	1.00	1.02	1.00
In-Process Volume [veh/h]	0	0	2	0	0	0	0	0	0	0	52	0
Site-Generated Trips [veh/h]	0	0	138	0	0	202	0	187	0	0	386	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	0	0	725	0	0	733	0	1394	0	0	1383	0
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	0	0	181	0	0	183	0	349	0	0	346	0
Total Analysis Volume [veh/h]	0	0	725	0	0	733	0	1394	0	0	1383	0
Presence of On-Street Parking	No		No	No		No	No		No	No		No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0			0			0			0		
v_di, Inbound Pedestrian Volume crossing m	0			0			0			0		
v_co, Outbound Pedestrian Volume crossing	0			0			0			0		
v_ci, Inbound Pedestrian Volume crossing mi	0			0			0			0		
v_ab, Corner Pedestrian Volume [ped/h]	0			0			0			0		
Bicycle Volume [bicycles/h]	0			0			0			0		

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	1 - Coordination Group
Cycle Length [s]	60
Coordination Type	Time of Day Pattern Coordinated
Actuation Type	Fixed time
Offset [s]	8.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	0.00

Phasing & Timing

Control Type	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss	Permiss
Signal group	0	0	2	0	0	6	0	8	0	0	4	0
Auxiliary Signal Groups												
Lead / Lag	-	-	-	-	-	-	-	-	-	-	-	-
Minimum Green [s]	0	0	5	0	0	5	0	5	0	0	5	0
Maximum Green [s]	0	0	30	0	0	30	0	30	0	0	30	0
Amber [s]	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
All red [s]	0.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0
Split [s]	0	0	25	0	0	25	0	35	0	0	35	0
Vehicle Extension [s]	0.0	0.0	3.0	0.0	0.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0
Walk [s]	0	0	5	0	0	5	0	5	0	0	5	0
Pedestrian Clearance [s]	0	0	10	0	0	10	0	10	0	0	10	0
Rest In Walk			No			No		No			No	
I1, Start-Up Lost Time [s]	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
I2, Clearance Lost Time [s]	0.0	0.0	2.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	2.0	0.0
Minimum Recall			No			No		No			No	
Maximum Recall			No			No		No			No	
Pedestrian Recall			No			No		No			No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	R	R	C	C
C, Cycle Length [s]	60	60	60	60
L, Total Lost Time per Cycle [s]	4.00	4.00	4.00	4.00
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	2.00	2.00	2.00	2.00
g_i, Effective Green Time [s]	21	21	31	31
g / C, Green / Cycle	0.35	0.35	0.52	0.52
(v / s)_i Volume / Saturation Flow Rate	0.28	0.28	0.43	0.42
s, saturation flow rate [veh/h]	2573	2573	3256	3256
c, Capacity [veh/h]	900	900	1682	1682
d1, Uniform Delay [s]	17.65	17.73	12.26	12.18
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	7.60	7.99	4.87	4.67
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.81	0.81	0.83	0.82
d, Delay for Lane Group [s/veh]	25.25	25.71	17.12	16.86
Lane Group LOS	C	C	B	B
Critical Lane Group	No	Yes	Yes	No
50th-Percentile Queue Length [veh/ln]	4.96	5.07	7.44	7.31
50th-Percentile Queue Length [ft/ln]	124.07	126.83	186.02	182.71
95th-Percentile Queue Length [veh/ln]	8.62	8.77	11.91	11.74
95th-Percentile Queue Length [ft/ln]	215.41	219.18	297.85	293.56

Movement, Approach, & Intersection Results

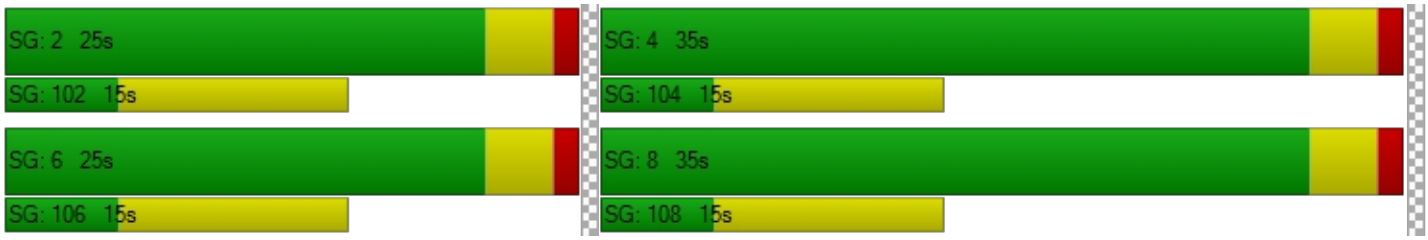
d_M, Delay for Movement [s/veh]	0.00	0.00	25.25	0.00	0.00	25.71	0.00	17.12	0.00	0.00	16.86	0.00
Movement LOS			C			C		B			B	
d_A, Approach Delay [s/veh]	25.25			25.71			17.12			16.86		
Approach LOS	C			C			B			B		
d_I, Intersection Delay [s/veh]	19.91											
Intersection LOS	B											
Intersection V/C	0.713											

Other Modes

g_Walk,mi, Effective Walk Time [s]	9.0	9.0	9.0	9.0
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	21.68	21.68	21.68	21.68
l_p,int, Pedestrian LOS Score for Intersection	2.049	2.053	3.004	2.963
Crosswalk LOS	B	B	C	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	1033	1033
d_b, Bicycle Delay [s]	30.00	30.00	7.01	7.01
l_b,int, Bicycle LOS Score for Intersection	4.132	4.132	2.710	2.701
Bicycle LOS	D	D	B	B

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intersection Level Of Service Report
Intersection 115: I-605 SB Off-Ramp (SB) at Arrrow Hwy (EW)

Control Type:	Signalized	Delay (sec / veh):	15.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.610

Intersection Setup

Name						
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	25.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Curb Present	No		No		No	
Crosswalk	Yes		Yes		Yes	

Volumes

Name						
Base Volume Input [veh/h]	259	241	0	1156	408	0
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	0.00	0.00	2.00	0.00	0.00	2.00
Growth Rate	1.02	1.02	1.00	1.02	1.02	1.00
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	209	202	0	615	53	0
Right-Turn on Red Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	473	448	0	1794	469	0
Peak Hour Factor	0.9740	0.9740	1.0000	0.9740	0.9740	1.0000
Other Adjustment Factor	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	121	0	0	460	120	0
Total Analysis Volume [veh/h]	486	0	0	1842	482	0
Presence of On-Street Parking	No	No	No	No	No	No
On-Street Parking Maneuver Rate [/h]	0	0	0	0	0	0
Local Bus Stopping Rate [/h]	0	0	0	0	0	0
v_do, Outbound Pedestrian Volume crossing	0		0		0	
v_di, Inbound Pedestrian Volume crossing m	0		0		0	
v_co, Outbound Pedestrian Volume crossing	0		0		0	
v_ci, Inbound Pedestrian Volume crossing mi	0		0		0	
v_ab, Corner Pedestrian Volume [ped/h]	0		0		0	
Bicycle Volume [bicycles/h]	0		0		0	

Intersection Settings

Located in CBD	Yes
Signal Coordination Group	-
Cycle Length [s]	80
Coordination Type	Time of Day Pattern Isolated
Actuation Type	Fixed time
Offset [s]	0.0
Offset Reference	LeadGreen
Permissive Mode	SingleBand
Lost time [s]	8.00

Phasing & Timing

Control Type	Split	Split	Permissive	Permissive	Permissive	Permissive
Signal group	4	0	0	2	6	0
Auxiliary Signal Groups						
Lead / Lag	Lag	-	-	-	-	-
Minimum Green [s]	9	0	0	5	15	0
Maximum Green [s]	30	0	0	50	50	0
Amber [s]	4.8	0.0	0.0	3.7	4.8	0.0
All red [s]	1.0	0.0	0.0	1.0	1.0	0.0
Split [s]	30	0	0	50	50	0
Vehicle Extension [s]	2.0	0.0	0.0	2.0	0.0	0.0
Walk [s]	0	0	0	0	7	0
Pedestrian Clearance [s]	0	0	0	0	10	0
Rest In Walk	No			No	No	
I1, Start-Up Lost Time [s]	2.0	0.0	0.0	2.0	2.0	0.0
I2, Clearance Lost Time [s]	3.8	0.0	0.0	2.7	3.8	0.0
Minimum Recall	Yes			Yes	No	
Maximum Recall	No			No	No	
Pedestrian Recall	No			No	No	
Detector Location [ft]	0.0	0.0	0.0	0.0	0.0	0.0
Detector Length [ft]	0.0	0.0	0.0	0.0	0.0	0.0
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00	1.00	1.00

Exclusive Pedestrian Phase

Pedestrian Signal Group	0
Pedestrian Walk [s]	0
Pedestrian Clearance [s]	0

Lane Group Calculations

Lane Group	L	R	C	C
C, Cycle Length [s]	80	80	80	80
L, Total Lost Time per Cycle [s]	5.80	5.80	4.70	5.80
l1_p, Permitted Start-Up Lost Time [s]	0.00	0.00	0.00	0.00
l2, Clearance Lost Time [s]	3.80	3.80	2.70	3.80
g_i, Effective Green Time [s]	24	24	45	44
g / C, Green / Cycle	0.30	0.30	0.57	0.55
(v / s)_i Volume / Saturation Flow Rate	0.15	0.00	0.40	0.15
s, saturation flow rate [veh/h]	3163	1454	4658	3256
c, Capacity [veh/h]	957	440	2638	1799
d1, Uniform Delay [s]	22.99	0.00	12.45	9.40
k, delay calibration	0.50	0.50	0.50	0.50
I, Upstream Filtering Factor	1.00	1.00	1.00	1.00
d2, Incremental Delay [s]	1.93	0.00	1.56	0.37
d3, Initial Queue Delay [s]	0.00	0.00	0.00	0.00
Rp, platoon ratio	1.00	1.00	1.00	1.00
PF, progression factor	1.00	1.00	1.00	1.00

Lane Group Results

X, volume / capacity	0.51	0.00	0.70	0.27
d, Delay for Lane Group [s/veh]	24.92	0.00	14.01	9.77
Lane Group LOS	C	A	B	A
Critical Lane Group	Yes	No	Yes	No
50th-Percentile Queue Length [veh/ln]	3.94	0.00	7.24	2.09
50th-Percentile Queue Length [ft/ln]	98.58	0.00	181.04	52.21
95th-Percentile Queue Length [veh/ln]	7.10	0.00	11.66	3.76
95th-Percentile Queue Length [ft/ln]	177.44	0.00	291.38	93.99

Movement, Approach, & Intersection Results

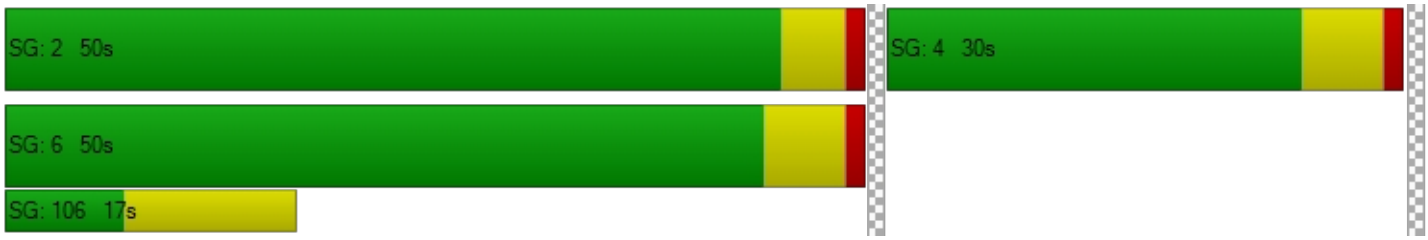
d_M, Delay for Movement [s/veh]	24.92	0.00	0.00	14.01	9.77	0.00
Movement LOS	C	A		B	A	
d_A, Approach Delay [s/veh]	24.92		14.01		9.77	
Approach LOS	C		B		A	
d_I, Intersection Delay [s/veh]	15.17					
Intersection LOS	B					
Intersection V/C	0.610					

Other Modes

g_Walk,mi, Effective Walk Time [s]	11.0	24.2	24.2
M_corner, Corner Circulation Area [ft²/ped]	0.00	0.00	0.00
M_CW, Crosswalk Circulation Area [ft²/ped]	0.00	0.00	0.00
d_p, Pedestrian Delay [s]	29.76	19.46	19.46
l_p,int, Pedestrian LOS Score for Intersection	2.065	2.729	2.824
Crosswalk LOS	B	B	C
s_b, Saturation Flow Rate of the bicycle lane	2000	2000	2000
c_b, Capacity of the bicycle lane [bicycles/h]	0	0	0
d_b, Bicycle Delay [s]	40.00	40.00	40.00
l_b,int, Bicycle LOS Score for Intersection	4.132	5.146	4.530
Bicycle LOS	D	F	E

Sequence

Ring 1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ring 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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714.795.3100 | www.ganddini.com

5010 Azusa Canyon Rd
I-605 Offramp Improvements Cost Estimate

Project		City of Hope Campus Specific Plan	The Park @ Live Oak Industrial/Retail Park	5010 Azusa Canyon Industrial
Trip Generation	Land Use	Medical Campus	Industrial, Retail, Office	Industrial
	Size	1,038,500 SF	1,551,600 SF	233,987
	Avg Daily Volume	4,753	15,867	1,121
I-605 @ Live Oak Ave Off-ramp	Total Cost	**$ 350,000.00**	**$ 1,168,409.43**	**$ 82,547.86**
	Cost Per Trip	$ 73.64	$ 73.64	$ 73.64
I-605 @ Arrow Hwy Off-ramp	Total Cost	**$ 127,000.00**	**$ 423,965.71**	**$ 29,953.08**
	Cost Per Trip	$ 26.72	$ 26.72	$ 26.72
		Total	**$ 1,592,375.13**	**$ 112,500.95**