



# **Chino Parcel Delivery**

## **ENERGY ANALYSIS**

### **CITY OF CHINO**

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11133-03 Energy Analysis Report



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## **LIST OF ABBREVIATED TERMS**

(1)	Reference
AQIA	Air Quality Impact Analysis
ARB	Air Resources Board
CaleEEMod	California Emissions Estimator Model
CARB	California Air Resources Board
CEC	California Energy Commission
CPUC	California Public Utilities Commission
EVs	Electric Vehicles
EMFAC	Emissions Factor
FERC	Federal Energy Regulatory Commission
GPA	General Plan Amendment
GWh	Gigawatt Hour
HHD	Heavy-Heavy Duty
ISO	Independent Service Operator
ISTEA	Intermodal Surface Transportation Efficiency Act
ITE	Institute of Transportation Engineers
LHD	Light-Heavy Duty
MHD	Medium-Heavy Duty
MPG	Miles Per Gallon
MPO	Metropolitan Planning Organization
Project	Chino Parcel Delivery
SCE	Southern California Edison
SoCalGas	Southern California Gas
SF	Square Feet
TEA-21	Transportation Equity Act for the 21 <sup>st</sup> Century
VMT	Vehicle Miles Traveled

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## **EXECUTIVE SUMMARY**

For new development such as that proposed by the Chino Parcel Delivery, compliance with California Building Standards Code Title 24 energy efficiency requirements (CalGreen), combined with the mitigation measures that are recommended by the Chino Parcel Delivery Air Quality Impact Analysis, Greenhouse Gas Analysis, and Health Risk Assessment, are considered demonstrable evidence of efficient use of energy. As discussed below, the Project would provide for, and promote, energy efficiencies beyond those required under other applicable federal and State of California standards and regulations, and in so doing would meet or exceed all California Building Standards Code Title 24 standards. Moreover, energy consumed by the Project's operation is calculated to be comparable to, or less than, energy consumed by other industrial warehouse uses of similar scale and intensity that are constructed and operating in California. On this basis, the Project would not result in the inefficient, wasteful, or unnecessary consumption of energy. Further, the Project would not cause or result in the need for additional energy producing facilities or energy delivery systems.

## **1 INTRODUCTION**

This report presents the results of the air energy analysis prepared by Urban Crossroads, Inc., for the proposed Chino Parcel Delivery (referred to as “Project”). The purpose of this report is to ensure that energy implication is considered by the City of Chino, as the lead agency, and to quantify anticipated energy usage associated with construction and operation of the proposed Project, determine if the usage amounts are efficient, typical, or wasteful for the land use type, and to emphasize avoiding or reducing inefficient, wasteful, and unnecessary consumption of energy.

### **1.1 SITE LOCATION**

The proposed Chino Parcel Delivery Project is located on the southwest corner of Flight Avenue and Merrill Avenue in the City of Chino, as shown on Exhibit 1-A. Interstate 15 (I-15) is located approximately four miles east of the Project site, and Chino Airport is located immediately west of the Project site. Existing land uses in the Project study area include existing agricultural uses north and southeast of the Project site; and the Watson Industrial Park east across Flight Avenue.

### **1.2 PROJECT DESCRIPTION**

The total Project development is proposed to consist of a parcel delivery facility within a single building with up to 476,285 square feet of building space and 26,529 square feet of ancillary building space that will support on-site operations, as shown on Exhibit 1-B. The Project is anticipated to be developed in a single phase with a projected Project Opening Year of 2020.

Per the Chino Parcel Delivery Traffic Impact Analysis prepared by Urban Crossroads, Inc. the Project is expected to generate a net total of approximately 3,905 trip-ends per day (actual vehicles) for the parcel delivery use (6). It should be noted that the 26,529 square feet of ancillary building space would not generate any additional traffic. The Project trip generation includes 1,263 truck trip-ends per day from the proposed Project site.

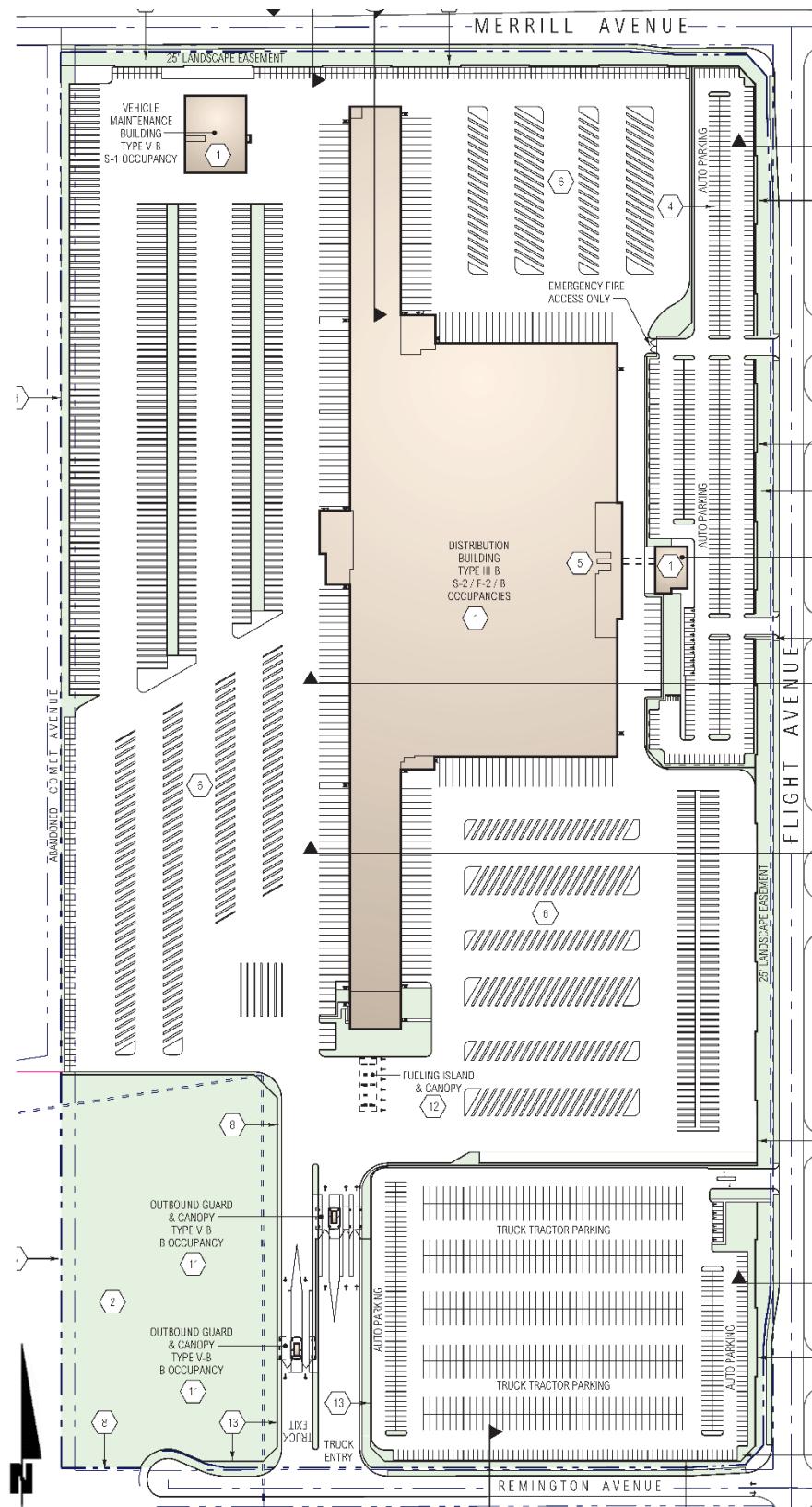
### **1.3 CONSTRUCTION AND OPERATIONAL-SOURCE EMISSIONS MITIGATION MEASURES**

The Project would not result in an efficient, wasteful, or unnecessary consumption of energy. As such, no mitigation measures are proposed.

**EXHIBIT 1-A: LOCATION MAP**



## EXHIBIT 1-B: SITE PLAN



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## **2 EXISTING CONDITIONS**

This section provides an overview of the existing energy conditions in the Project area and region.

### **2.1 OVERVIEW**

California's estimated annual energy use as of 2016 included:

- Approximately 198,227 gigawatt hours of electricity; (2)
- Approximately 2,177,467 million cubic feet of natural gas per year (3); and
- Approximately 18.5 billion gallons of transportation fuel (for the year 2014) (4).

As of 2015, the year of most recent data currently available by the United States Energy Information Administration (EIA), energy use in California by demand sector was:

- Approximately 39.2 percent transportation;
- Approximately 24.0 percent industrial;
- Approximately 17.7 percent residential; and
- Approximately 19.1 percent commercial. (5)

California's massive electricity in-state generation system generates approximately 198,227 gigawatt-hours each year and is transported over the state's 32,000 miles of transmission lines. In 2016, California produced close to 68% of the electricity it uses; the rest was imported from the Pacific Northwest (15%) and the U.S. Southwest (17%). Natural gas is the main source for electricity generation at 50% of the total in-state electric generation system power as shown in Table 2-1.

**TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2016)**

Fuel Type	California In-State Generation (GWh)	Percent of California In-State Generation	Northwest Imports (GWh)	Southwest Imports (GWh)	California Power Mix (GWh)	Percent California Power Mix
Coal	324	0.16%	373	11,310	12,006	4.13%
Large Hydro	24,410	12.31%	3367	1,904	29,681	10.21%
Natural Gas	98,831	49.86%	41	7,120	105,992	36.48%
Nuclear	18,931	9.55%	0	7,739	26,670	9.18%
Oil	37	0.0%	0	0	37	0.01%
Other	394	0.2%	0	0	394	0.14%
Renewables	55,300	27.90%	11,710	6,952	73,961	25.45%
Biomass	5,868	2.96%	659	25	6,553	2.26%
Geothermal	11,582	5.84%	96	1038	12,717	4.38%
Small Hydro	4,567	2.30%	229	1	4,796	1.65%
Solar	19,783	9.98%	0	3,791	23,574	8.11%
Wind	13,500	6.81%	10,725	2,097	26,321	9.06%
Unspecified Sources of Power	N/A	N/A	26,888	14,937	41,825	14.39%
<b>Total</b>	<b>198,227</b>	<b>100.00%</b>	<b>42,378</b>	<b>49,963</b>	<b>290,567</b>	<b>100.00%</b>

Source: [http://energyalmanac.ca.gov/electricity/total\\_system\\_power.html](http://energyalmanac.ca.gov/electricity/total_system_power.html)

A summary of, and context for energy consumption and energy demands within the State is presented in “U.S. Energy Information Administration, California State Profile and Energy Estimates, Quick Facts” excerpted below:

- Excluding federal offshore areas, California was the third-largest producer of petroleum among the 50 states in 2016, after Texas and North Dakota, and, as of January 2017, third in oil refining capacity, with a combined capacity of almost 2 million barrels per calendar day at the state’s 18 operable refineries.
- In 2015, California accounted for one-fifth of the nation’s jet fuel consumption.
- California’s total energy consumption ranks amount the highest in the nation, but, in 2015, the state’s per capita energy consumption ranked 49<sup>th</sup>, due in part to its mild climate and its energy efficiency programs.
- In 2016, California ranked third in the nation in conventional hydroelectric generation, second in net electricity generation from all other renewable energy resources combined, and first as a producer of electricity from solar, geothermal, and biomass resources.
- California leads the nation in solar thermal electricity capacity and generation. In 2016, California had 73% of the nation’s capacity and produced 71% of the nation’s utility-scale electricity generation from solar thermal resources (6).

As indicated above, California is one of the nation’s leading energy-producing states, and California per capita energy use is among the nation’s most efficient. Given the nature of the proposed Project being an industrial development, the remainder of this discussion will focus on

the three sources of energy that are most relevant to the project—namely, electricity and natural gas for industrial uses, and transportation fuel for vehicle trips associated with industrial uses planned for the Project.

## 2.2 ELECTRICITY

The Southern California region's electricity reliability has been of concern for the past several years due to the planned retirement of aging facilities that depend upon once-through cooling technologies, as well as the June 2013 retirement of the San Onofre Nuclear Generating Station (San Onofre). While the once-through cooling phase-out has been ongoing since the May 2010 adoption of the State Water Resources Control Board's once-through cooling policy, the retirement of San Onofre complicated the situation. California ISO studies had revealed the extent to which the Los Angeles Basin and San Diego region were vulnerable to low-voltage and post-transient voltage instability concerns. A preliminary plan to address these issues was detailed in the 2013 Integrative Energy Policy Report (2013 IEPR) after a collaborative process with other energy agencies, utilities, and air districts (7). If the resource development outlined in the preliminary plan continues as detailed, reliability in Southern California would likely be assured; however, tight resource margins have led energy agencies and the ARB to develop a contingency plan. This contingency plan was discussed at a public workshop in Los Angeles on August 20, 2014, and is detailed within this Section (8).

Electricity would be provided to the Project by Southern California Edison (SCE). SCE provides electric power to more than 14 million persons in 15 counties and in 180 incorporated cities, within a service area encompassing approximately 50,000 square miles. SCE derives electricity from varied energy resources including: fossil fuels, hydroelectric generators, nuclear power plants, geothermal power plants, solar power generation, and wind farms. SCE also purchases from independent power producers and utilities, including out-of-state suppliers. (9)

California's electricity industry is an organization of traditional utilities, private generating companies, and state agencies, each with a variety of roles and responsibilities to ensure that electrical power is provided to consumers. The California Independent Service Operator ("ISO") is a nonprofit public benefit corporation, and is the impartial operator of the State's wholesale power grid and is charged with maintaining grid reliability, and to direct uninterrupted electrical energy supplies to California residential and commercial users. While utilities [such as SCE] still own transmission assets, the ISO routes electrical power along these assets, maximizing the use of the transmission system and its power generation resources. The ISO matches buyers and sellers of electricity to ensure that sufficient power is available to meet demand. To these ends, every five minutes the ISO forecasts electrical demands, accounts for operating reserves, and assigns the lowest cost power plant unit to meet demands while ensuring adequate system transmission capacities and capabilities. (10)

Part of the ISO's charge is to plan and coordinate grid enhancements to ensure that electrical power is provided to California consumers. To this end, transmission owners (investor-owned utilities such as SCE) file annual transmission expansion/modification plans to accommodate the State's growing electrical needs. The ISO reviews and either approves or denies the proposed additions. In addition, and perhaps most importantly, the ISO works with other areas in the

western United States electrical grid to ensure that adequate power supplies are available to the State. In this manner, continuing reliable and affordable electrical power is assured to existing and new consumers throughout the State.

Table 2-2 identifies SCE's specific proportional shares of electricity sources in 2016. As indicated in Table 2-2, shows the 2016 SCE Power Mix has renewable energy at 25% of the overall energy resources. Geothermal is remaining steady at 4%. Wind power is remaining steady at 9%, decreasing from 10% in 2014. Large hydro is at 10%, having increased from 3% in 2014. Solar energy is at 8% having increased from 4% in 2014. Biomass and waste has increased to 2% from 1% in 2014. Coal is at 4% having increased from 0%, in 2014 and having decreased significantly from 6% in 2013 and from 7% in 2012. Natural gas is at 37% having increased from 27%, in 2014 and 28% in 2013.

**TABLE 2-2: SCE 2016 POWER CONTENT MIX**

<b>Energy Resources</b>	<b>2016 SCE Power Mix</b>
<b><i>Eligible Renewable</i></b>	<b>25%</b>
Biomass & waste	2%
Geothermal	4%
Small Hydroelectric	2%
Solar	8%
Wind	9%
<b><i>Coal</i></b>	<b>4%</b>
<b><i>Large Hydroelectric</i></b>	<b>10%</b>
<b><i>Natural Gas</i></b>	<b>37%</b>
<b><i>Nuclear</i></b>	<b>9%</b>
<b><i>Other</i></b>	<b>0%</b>
Unspecified Sources of power*	15%
<b>Total</b>	<b>100%</b>

\* "Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources

## 2.3 NATURAL GAS

Natural gas would be provided to the Project by The Gas Company (Southern California Gas, SoCalGas). The following summary of natural gas resources and service providers, delivery systems, and associated regulation is excerpted from information provided by the California Public Utilities Commission (CPUC).

"The California Public Utilities Commission (PUC) regulates natural gas utility service for approximately 10.8 million customers that receive natural gas from Pacific Gas and Electric (PG&E), Southern California Gas (SoCalGas), San Diego Gas & Electric (SDG&E), Southwest Gas, and several smaller natural gas utilities. The CPUC also regulates independent storage operators Lodi Gas Storage, Wild Goose Storage, Central Valley Storage and Gill Ranch Storage.

The vast majority of California's natural gas customers are residential and small commercial customers, referred to as "core" customers, who accounted for approximately 32% of the natural gas delivered by California utilities in 2012. Large consumers, like electric generators and industrial customers, referred to as "noncore" customers, accounted for approximately 68% of the natural gas delivered by California utilities in 2012.

The PUC regulates the California utilities' natural gas rates and natural gas services, including in-state transportation over the utilities' transmission and distribution pipeline systems, storage, procurement, metering and billing. Most of the natural gas used in California comes from out-of-state natural gas basins. In 2012, California customers received 35% of their natural gas supply from basins located in the Southwest, 16% from Canada, 40% from the Rocky Mountains, and 9% from basins located within California. California gas utilities may soon also begin receiving biogas into their pipeline systems.

Natural gas from out-of-state production basins is delivered into California via the interstate natural gas pipeline system. The major interstate pipelines that deliver out-of-state natural gas to California consumers are the Gas Transmission Northwest Pipeline, Kern River Pipeline, Transwestern Pipeline, El Paso Pipeline, the Ruby Pipeline, Questar Southern Trails and Mojave Pipeline. Another pipeline, the North Baja – Baja Norte Pipeline, takes gas off the El Paso Pipeline at the California/Arizona border, and delivers that gas through California into Mexico. While the Federal Energy Regulatory Commission (FERC) regulates the transportation of natural gas on the interstate pipelines, the PUC often participates in FERC regulatory proceedings to represent the interests of California natural gas consumers.

Most of the natural gas transported via the interstate pipelines, as well as some of the California-produced natural gas, is delivered into the PG&E and SoCalGas intrastate natural gas transmission pipeline systems (commonly referred to as California's "backbone" natural gas pipeline system). Natural gas on the utilities' backbone pipeline systems is then delivered into the local transmission and distribution pipeline systems, or to natural gas storage fields. Some large noncore customers take natural gas directly off the high pressure backbone pipeline systems, while core customers and other noncore customers take natural gas off the utilities' distribution pipeline systems. The PUC has regulatory jurisdiction over 150,000 miles of utility-owned natural gas pipelines, which transported 82% of the total amount of natural gas delivered to California's gas consumers in 2012.

SDG&E and Southwest Gas' southern division are wholesale customers of SoCalGas, and currently receive all of their natural gas from the SoCalGas system (Southwest Gas also provides natural gas distribution service in the Lake Tahoe area). Some other municipal wholesale customers are the cities of Palo Alto, Long Beach, and Vernon, which are not regulated by the CPUC.

Some of the natural gas delivered to California customers may be delivered directly to them without being transported over the regulated utility systems. For example, the Kern

River/Mojave pipeline system can deliver natural gas directly to some large customers, “bypassing” the utilities’ systems. Much of California-produced natural gas is also delivered directly to large consumers.

PG&E and SoCalGas own and operate several natural gas storage fields that are located in northern and southern California. These storage fields, and four independently owned storage utilities – Lodi Gas Storage, Wild Goose Storage, Central Valley Storage, and Gill Ranch Storage – help meet peak seasonal natural gas demand and allow California natural gas customers to secure natural gas supplies more efficiently. (A portion of the Gill Ranch facility is owned by PG&E).

California’s regulated utilities do not own any natural gas production facilities. All of the natural gas sold by these utilities must be purchased from suppliers and/or marketers. The price of natural gas sold by suppliers and marketers was deregulated by the FERC in the mid-1980’s and is determined by “market forces.” However, the PUC decides whether California’s utilities have taken reasonable steps in order to minimize the cost of natural gas purchased on behalf of their core customers.” (11)

As indicated in the preceding discussions, natural gas is available from a variety of in-state and out-of-state sources and is provided throughout the state in response to market supply and demand. Complementing available natural gas resources, biogas may soon be available via existing delivery systems, thereby increasing the availability and reliability of resources in total. The PUC oversees utility purchases and transmission of natural gas to ensure reliable and affordable natural gas deliveries to existing and new consumers throughout the State.

## **2.4 TRANSPORTATION ENERGY RESOURCES**

The Project would attract additional vehicle trips with resulting consumption of energy resources, predominantly gasoline and diesel fuel. As of 2017, there are more than 35 million registered vehicles in California (12), and those vehicles (as noted previously) consume an estimated 19 billion gallons of fuel each year<sup>1</sup>. Gasoline (and other vehicle fuels) are commercially-provided commodities and would be available to the Project patrons and employees via commercial outlets.

California’s on-road transportation system includes 170,000 miles of highways and major roadways, more than 27 million passenger vehicles and light trucks, and almost 8 million medium- and heavy-duty vehicles (12). The most recent data available (2015) shows the transportation sector emits 37 percent of the total greenhouse gases in the state and about 81 percent of smog-forming oxides of nitrogen (NO<sub>x</sub>) (13) (14). While gasoline consumption has been declining since 2008 it is still by far the dominant fuel. Petroleum comprises about 92 percent of all transportation energy use, excluding fuel consumed for aviation and most marine vessels (15). Nearly 19 billion gallons of on-highway fuel are burned each year, including 15.1 billion gallons of gasoline (including ethanol) and 3.9 billion gallons of diesel fuel (including biodiesel and

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<sup>1</sup> Fuel consumptions estimated utilizing information from EMFAC2014.

renewable diesel)<sup>2</sup>. In 2016, Californians also used 194 million therms of natural gas as a transportation fuel (16), or the equivalent of 155 million gallons of gasoline.

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<sup>2</sup> Fuel consumptions estimated utilizing information from EMFAC2014.

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### 3 REGULATORY BACKGROUND

Federal and state agencies regulate energy use and consumption through various means and programs. On the federal level, the United States Department of Transportation, the United States Department of Energy, and the United States Environmental Protection Agency are three federal agencies with substantial influence over energy policies and programs. On the state level, the PUC and the California Energy Commissions (CEC) are two agencies with authority over different aspects of energy. Relevant federal and state energy-related laws and plans are summarized below. Project consistency with applicable federal and state regulations is also presented in *italicized* text.

#### 3.1 FEDERAL REGULATIONS

##### Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)

The Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) promoted the development of inter-modal transportation systems to maximize mobility as well as address national and local interests in air quality and energy. ISTEА contained factors that Metropolitan Planning Organizations (MPOs) were to address in developing transportation plans and programs, including some energy-related factors. To meet the new ISTEА requirements, MPOs adopted explicit policies defining the social, economic, energy, and environmental values guiding transportation decisions. *Transportation and access to the Project site is provided primarily by the local and regional roadway systems. The Project would not interfere with, nor otherwise obstruct intermodal transportation plans or projects that may be realized pursuant to the ISTEА because SCAG is not planning for intermodal facilities on or through the Project site.*

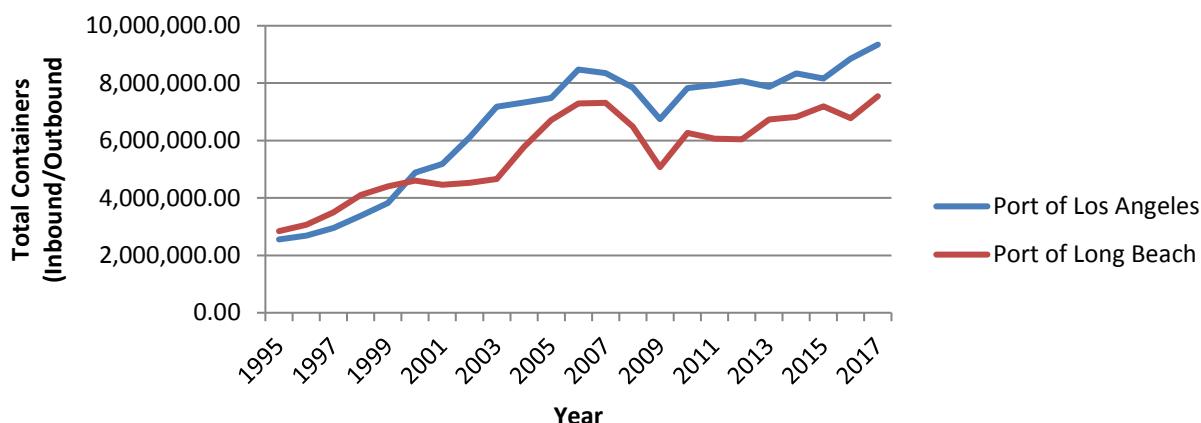
##### The Transportation Equity Act for the 21<sup>st</sup> Century (TEA-21)

The Transportation Equity Act for the 21st Century (TEA-21) was signed into law in 1998 and builds upon the initiatives established in the ISTEА legislation, discussed above. TEA-21 authorizes highway, highway safety, transit, and other efficient surface transportation programs. TEA-21 continues the program structure established for highways and transit under ISTEА, such as flexibility in the use of funds, emphasis on measures to improve the environment, and focus on a strong planning process as the foundation of good transportation decisions. TEA-21 also provides for investment in research and its application to maximize the performance of the transportation system through, for example, deployment of Intelligent Transportation Systems, to help improve operations and management of transportation systems and vehicle safety. *The Project site is located along major transportation corridors with proximate access to the Interstate freeway system. The site selected for the Project facilitates access, acts to reduce vehicle miles traveled, takes advantage of existing infrastructure systems, and promotes land use compatibilities through collocation of similar uses. The Project supports the strong planning processes emphasized under TEA-21. The Project is therefore consistent with, and would not otherwise interfere with, nor obstruct implementation of TEA-21.*

As shown on Exhibit 3-A, data from both the Port of Los Angeles and the Port of Long Beach shows that the receiving and shipping of containers have had a stable trend since the recession that hit in 2007 (17) (18). Therefore, truck transport from the ports is relatively stable and a Project of this type would not be increasing the amount of truck trips and consequently VMT than what would normally occur within the basin. As such, the estimation of the Chino Parcel Delivery Project's vehicular-source emissions is likely overstated in that no credit for, or reduction in, emissions is assumed based on diversion of existing trips.

Additionally, the Southern California Association of Governments' (SCAG's) 2012-2035 Regional Transportation Plan / Sustainable Communities Strategy (RTP/SCS) includes information on goods movement that clearly illustrates that of the port-related trips within the SCAG region, more than 85% have an origin or destination within Los Angeles County. As a result, the Project would serve to meet this demand and not be expected to increase trips or VMT in the air basin.

#### EXHIBIT 3-A: PORT OF LOS ANGELES/PORT OF LONG BEACH CONTAINER COUNTS



## 3.2 CALIFORNIA REGULATIONS

### Integrated Energy Policy Report

Senate Bill 1389 (Bowen, Chapter 568, Statutes of 2002) requires the California Energy Commission to prepare a biennial integrated energy policy report that assesses major energy trends and issues facing the state's electricity, natural gas, and transportation fuel sectors and provides policy recommendations to conserve resources; protect the environment; ensure reliable, secure, and diverse energy supplies; enhance the state's economy; and protect public health and safety (Public Resources Code § 25301a]). The Energy Commission prepares these assessments and associated policy recommendations every two years, with updates in alternate years, as part of the Integrated Energy Policy Report.

The 2016 Integrated Energy Policy Report (2016 IEPR) was published in February 2017, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2016 IEPR focuses on a variety of topics such as including the environmental

performance of the electricity generation system, landscape-scale planning, the response to the gas leak at the Aliso Canyon natural gas storage facility, transportation fuel supply reliability issues, updates on Southern California electricity reliability, methane leakage, climate adaptation activities for the energy sector, climate and sea level rise scenarios, and the California Energy Demand Forecast (19).

#### State of California Energy Plan

The CEC is responsible for preparing the State Energy Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The Plan calls for the state to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators and encouragement of urban designs that reduce vehicle miles traveled and accommodate pedestrian and bicycle access. *The Project site is located along major transportation corridors with proximate access to the Interstate freeway system. The site selected for the Project facilitates access, acts to reduce vehicle miles traveled, takes advantage of existing infrastructure systems, and promotes land use compatibilities through the introduction of commercial uses on a commercially-designated site. The Project therefore supports urban design and planning processes identified under the State of California Energy Plan, is consistent with, and would not otherwise interfere with, nor obstruct implementation of the State of California Energy Plan.*

#### California Code Title 24, Part 6, Energy Efficiency Standards

California Code Title 24, Part 6 (also referred to as the California Energy Code), was promulgated by the CEC in 1978 in response to a legislative mandate to create uniform building codes to reduce California's energy consumption. To these ends, the California Energy Code provides energy efficiency standards for residential and nonresidential buildings. According to the CEC, the Energy Commission's energy efficiency standards have saved Californians billions in reduced electricity bills since 1977. (20)

The newest 2016 version of Title 24 was adopted by the California Energy Commission (CEC) and became effective on January 1, 2017. The CEC indicates that the 2016 Title 24 standards will reduce energy consumption by 5 percent for nonresidential buildings above that achieved by the 2013 Title 24.

The Project would be designed, constructed and operated so as to exceed incumbent Title 24 Energy Efficiency Standards by a minimum of three percent. On this basis, the Project is determined to be consistent with, and would not interfere with, nor otherwise obstruct implementation of Title 24 Energy Efficiency Standards.

## 4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

### 4.1 EVALUATION CRITERIA

In compliance with Appendix F of the *State CEQA Guidelines*, (21) this report analyzes the project's anticipated energy use to determine if the Project would:

- Result in the wasteful, inefficient or unnecessary consumption of energy; or
- Result in a substantial increase in demand or transmission service, resulting in the need for new or expanded sources of energy supply or new or expanded energy delivery systems or infrastructure.

In addition, Appendix F of the State CEQA Guidelines states that the means of achieving the goal of energy conservation includes the following:

- Decreasing overall per capita energy consumption;
- Decreasing reliance on fossil fuels such as coal, natural gas and oil; and
- Increasing reliance on renewable energy sources.

### 4.2 METHODOLOGY

Information from the CalEEMod 2016.3.2 outputs for the Chino Parcel Delivery Air Quality Impact Analysis, Urban Crossroads (2017) (22) was utilized in this analysis, detailing Project related construction equipment, transportation energy demands, and facility energy demands. These outputs can be referenced in Appendix 3.1.

### 4.3 CONSTRUCTION ENERGY DEMANDS

#### 4.3.1 CONSTRUCTION EQUIPMENT ELECTRICITY USAGE ESTIMATES

The focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the proposed Project. Based on the 2017 National Construction Estimator, Richard Pray (2017) (23), the typical power cost per 1,000 square feet of building construction per month is estimated to be \$2.32. For the Chino Parcel Delivery development, the Project plans to develop 476,920 square feet of parcel delivery building space and 26,529 square feet of ancillary building over the course of approximately 27 months. Based on Table 4-1, the total power cost of the on-site electricity usage during the construction of the proposed Project is estimated to be approximately \$31,496.27. Additionally, as of June 1, 2016, SCE's general service rate schedule (GS-1) for an industrial land use is \$.08 per kWh of electricity (24). As shown on Table 4-2, the total electricity usage from on-site Project construction related activities is estimated to be approximately 393,703 kWh.

**TABLE 4-1: PROJECT CONSTRUCTION POWER COST**

<b>Power Cost (per 1,000 SF of building per month of construction)</b>	<b>Total Building Size (1,000 SF)</b>	<b>Construction Duration (months)</b>	<b>Total Project Construction Power Cost</b>
\$2.32	502.814	27	\$31,496.27

**TABLE 4-2: PROJECT CONSTRUCTION ELECTRICITY USAGE**

<b>Cost per kWh</b>	<b>Total Project Construction Electricity Usage (kWh)</b>
\$0.08	393,703

<sup>2</sup> Assumes the Project will be under the GS-1 General Industrial service rate under SCE

#### **4.3.2 CONSTRUCTION EQUIPMENT FUEL ESTIMATES**

Fuel consumed by construction equipment would be the primary energy resource expended over the course of Project construction. Project construction activity timeline estimates, construction equipment schedules, equipment power ratings, load factors, and associated fuel consumption estimates are presented in Table 4-3. Eight-hour daily use of all equipment is assumed. The aggregate fuel consumption rate for all equipment is estimated at 18.5 hp-hr-gal., obtained from California Air Resources Board (CARB) 2013 Emissions Factors Tables and cited fuel consumption rate factors presented in Table D-24 of the Moyer guidelines. (25) For the purposes of this analysis, that the calculations are based on all construction equipment being diesel-powered which is standard practice consistent with industry standards. Diesel fuel would be supplied by existing commercial fuel providers serving the County and region.

As presented in Table 4-3, Project construction activities would consume an estimated 154,618 gallons of diesel fuel. Project construction would represent a “single-event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

**TABLE 4-3: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES**

<b>Activity/Duration</b>	<b>Equipment</b>	<b>HP Rating</b>	<b>Quantity</b>	<b>Usage Hours</b>	<b>Load Factor</b>	<b>HP-hrs/day</b>	<b>Total Fuel Consumption (gal. diesel fuel)</b>
Demolition (70 days)	Concrete/Industrial Saws	81	1	8	0.73	473	1,790
	Excavators	158	3	8	0.38	1,441	5,452
	Rubber Tired Dozers	247	2	8	0.40	1,581	5,981
Site Preparation (20 days)	Crawler Tractors	212	4	8	0.43	2,917	3,154
	Rubber Tired Dozers	247	3	8	0.40	2,371	2,563
Grading (200 days)	Crawler Tractors	212	2	8	0.43	1,459	15,768
	Excavators	158	2	8	0.38	961	10,385
	Graders	187	1	8	0.41	613	6,631
	Rubber Tired Dozers	247	1	8	0.40	790	8,545
	Scrapers	367	4	8	0.48	2,819	30,471
Building Construction (250 days)	Cranes	231	1	8	0.29	536	7,242
	Crawler Tractors	212	3	8	0.43	2,188	29,565
	Forklifts	89	3	8	0.20	427	5,773
	Generator Sets	84	1	8	0.74	497	6,720
	Welders	46	1	8	0.45	166	2,238
Paving (125 days)	Pavers	130	2	8	0.42	874	4,250
	Paving Equipment	132	2	8	0.36	760	3,699
	Rollers	80	2	8	0.38	486	2,366
Architectural Coating (90 days)	Air Compressors	78	1	8	0.48	300	2,024
<b>CONSTRUCTION FUEL DEMAND (gallons diesel fuel)</b>							<b>154,618</b>

### 4.3.3 CONSTRUCTION WORKER FUEL ESTIMATES

It is assumed that all construction worker trips are from light duty autos (LDA) along area roadways. With respect to estimated VMT, the construction worker trips would generate an estimated 1,109,997 VMT (26). Data regarding Project related construction worker trips were based on CalEEMod 2016.3.2 model defaults utilized within the AQIA.

Vehicle fuel efficiencies for LDA were estimated using information generated within the 2014 version of the Emissions FACTor model (EMFAC) developed by the Air Resources Board (ARB). EMFAC 2014 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the ARB to project changes in future emissions from on-road mobile sources (27). EMFAC 2014 was run for the LDA vehicle class within the California sub-area for a 2020 calendar year. Data from EMFAC 2014 is shown in Appendix 3.2.

As generated by EMFAC 2014, an aggregated fuel economy of LDAs ranging from model year 1974 to model year 2018 are estimated to have a fuel efficiency of 28.57 miles per gallon (MPG). Table 4-4 provides an estimated annual fuel consumption resulting from Project generated light duty autos related to construction worker trips. Based on Table 4-4, it is estimated that 38,852 gallons of fuel will be consumed related to construction worker trips after full construction of the proposed Project. Project construction worker trips would represent a “single-event” gasoline fuel demand and would not require on-going or permanent commitment of fuel resources for this purpose.

**TABLE 4-4: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES**

Construction Activity	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Demolition (70 days)	15	14.7	15,435	28.57	540
Site Preparation (20 days)	18	14.7	5,292	28.57	185
Grading (200 days)	20	14.7	58,800	28.57	2,058
Building Construction (250 days)	250	14.7	918,750	28.57	32,158
Architectural Coating (125 days)	50	14.7	91,875	28.57	3,216
Paving (90 days)	15	14.7	19,845	28.57	695
<b>TOTAL CONSTRUCTION WORKER FUEL CONSUMPTION</b>					<b>38,852</b>

### 4.3.4 CONSTRUCTION VENDOR/HAULING FUEL ESTIMATES

With respect to estimated VMT, the construction vendor/hauling trips would generate an estimated 289,947 VMT along area roadways (22). It is assumed that 50% of all vendor trips are

from medium-heavy duty trucks (MHD) and 50% are from heavy-heavy duty trucks (HHD). It is assumed that 100% of all hauling trips are from HHD. These assumptions are consistent with the 2016.3.2 CalEEMod defaults utilized within the Chino Parcel Delivery Air Quality Impact Analysis. Vehicle fuel efficiencies for MHD and HHD trucks were estimated using information generated within EMFAC 2014. For purposes of this analysis, EMFAC 2014 was run for the MHD and HHD vehicle class within the California sub-area for a 2020 calendar year. Data from EMFAC 2014 is shown in Appendix 3.2.

As generated by EMFAC 2014, an aggregated fuel economy of MHD trucks ranging from model year 1974 to model year 2018 are estimated to have a fuel efficiency of 8.5 mpg. Additionally, HHD trucks are estimated to have a fuel efficiency of 5.85 mpg.

Table 4-5 and Table 4-6 shows the estimated fuel economy of MHD and HHD trucks accessing the Project site. Based on Table 4-5 and Table 4-6, fuel consumption from construction hauling and vendor trips (medium and heavy-duty trucks) will total approximately 35,664 gallons. Project construction vendor trips would represent a “single-event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

**TABLE 4-5: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES (MHD TRUCKS)<sup>3</sup>**

Construction Activity	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Demolition (70 days)	8	6.9	3,623	8.5	426
Site Preparation (20 days)	9	6.9	1,242	8.5	146
Grading (200 days)	10	6.9	13,800	8.5	1,624
Building Construction (250 days)	125	6.9	215,625	8.5	25,368
Paving (90 days)	8	6.9	4,968	8.5	584
Architectural Coating (125 days)	25	6.9	21,563	8.5	2,537

<sup>3</sup> Assumptions for the vendor trip length and vehicle miles traveled are consistent with 2013.2.2 model defaults utilized within the Chino Parcel Delivery Air Quality Impact Analysis.

**TABLE 4-6: CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION ESTIMATES (HHD TRUCKS)<sup>4</sup>**

<b>Construction Activity</b>	<b>Vendor/ Hauling Trips/ Day</b>	<b>Trip Length (miles)</b>	<b>Vehicle Miles Traveled</b>	<b>Average Vehicle Fuel Economy (mpg)</b>	<b>Estimated Fuel Consumption (gallons)</b>
Demolition (70 days)	8	6.9	3,864	5.85	661
Demolition (70 days)	1	20	263	5.85	45
Grading (200 days)	6	20	25,000	5.85	4,274

#### **4.3.5 CONSTRUCTION ENERGY EFFICIENCY/CONSERVATION MEASURES**

The equipment used for Project construction would conform to CARB regulations and CA emissions standards and would evince related fuel efficiencies. There are no unusual Project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities; or equipment that would not conform to current emissions standards (and related fuel efficiencies). Equipment employed in construction of the Project would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

The Project would utilize construction contractors which practice compliance with applicable CARB regulation regarding retrofitting, repowering, or replacement of diesel off-road construction equipment. Additionally, CARB has adopted the Airborne Toxic Control Measure to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other Toxic Air Contaminants. Compliance with anti-idling and emissions regulations would result in a more efficient use of construction-related energy and the minimization or elimination of wasteful or unnecessary consumption of energy. Idling restrictions and the use of newer engines and equipment would result in less fuel combustion and energy consumption.

Additionally, certain incidental construction-source energy efficiencies would likely accrue through implementation of California regulations and best available control measures (BACM). More specifically, California Code of Regulations Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than five minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. To this end, “grading plans shall reference the requirement that a sign shall be posted on-site stating that construction workers need to shut off engines at or before five minutes of idling.” In this manner, construction equipment operators are informed that engines are to be turned off at or prior to five minutes of idling. Enforcement of idling limitations

<sup>4</sup> Assumptions for the vendor trip length and vehicle miles traveled are consistent with 2013.2.2 model defaults utilized within the Chino Parcel Delivery Air Quality Impact Analysis.

is realized through periodic site inspections conducted by County building officials, and/or in response to citizen complaints.

Indirectly, construction energy efficiencies and energy conservation would be achieved for the proposed development through energy efficiencies realized from bulk purchase, transport and use of construction materials.

A full analysis related to the energy needed to form construction materials is not included in this analysis due to a lack of detailed Project-specific information on construction materials. At this time an analysis of the energy needed to create Project-related construction materials would be extremely speculative and thus has not been prepared.

In general, the construction processes promote conservation and efficient use of energy by reducing raw materials demands, with related reduction in energy demands associated with raw materials extraction, transportation, processing and refinement. Use of materials in bulk reduces energy demands associated with preparation and transport of construction materials as transport and disposal of construction waste and solid waste in general, with corollary reduced demands on area landfill capacities and energy consumed by waste transport and landfill operations.

#### **4.3.6 SUMMARY**

The estimated power cost of on-site electricity usage during the construction of the proposed Project is assumed to be around \$31,496.27. Additionally, based on the assumed power cost, it is estimated that the total electricity usage during construction, after full Project build-out, is calculated to be around 393,703 kWh.

Construction equipment used by the Project would result in single event consumption of approximately 154,618 gallons of diesel fuel. Construction equipment use of fuel would not be atypical for the type of construction proposed because there are no aspects of the Project's proposed construction process that are unusual or energy-intensive, and Project construction equipment would conform to the applicable CARB emissions standards, acting to promote equipment fuel efficiencies.

CCR Title 13, Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than 5 minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. Best available control measures inform construction equipment operators of this requirement. Enforcement of idling limitations is realized through periodic site inspections conducted by County building officials, and/or in response to citizen complaints.

Construction worker trips for full construction of the proposed Project would result in the estimated fuel consumption of 38,852 gallons of fuel. Additionally, fuel consumption from construction vendor trips (medium and heavy-duty trucks) will total approximately 35,664 gallons. Diesel fuel would be supplied by County and regional commercial vendors. Indirectly, construction energy efficiencies and energy conservation would be achieved through the use of bulk purchases, transport and use of construction materials. The 2016 IEPR released by the

California Energy Commission has shown that fuel efficiencies are getting better within on and off-road vehicle engines due to more stringent government requirements (28). As supported by the preceding discussions, Project construction energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

## **4.4 OPERATIONAL ENERGY DEMANDS**

Energy consumption in support of or related to Project operations would include transportation energy demands (energy consumed by employee and patron vehicles accessing the Project site) and facilities energy demands (energy consumed by building operations and site maintenance activities).

### **4.4.1 TRANSPORTATION ENERGY DEMANDS**

Energy that would be consumed by Project-generated traffic is a function of total VMT and estimated vehicle fuel economies of vehicles accessing the Project site.

#### **LIGHT DUTY AUTOS**

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's Air Quality Impact Analysis, the Project would generate an estimated 15,972,538 annual VMT along area roadways for all passenger cars with full build-out of the Project (22). As generated by EMFAC 2014, an aggregated fuel economy of LDAs ranging from model year 1974 to model year 2018 are estimated to have a fuel efficiency of 28.57 mpg. Table 4-7 provides an estimated range of annual fuel consumption resulting from Project generated LDAs. Based on Table 4-7, it is estimated that 559,067 gallons of fuel will be consumed from Project generated LDA trips.

**TABLE 4-7: PROJECT-GENERATED PASSENGER CAR TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
15,972,538	28.57	559,067

#### **LIGHT-HEAVY DUTY TRUCKS**

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's Air Quality Impact Analysis, the Project would generate an estimated 25,102,605 annual VMT along area roadways for all LHD trucks with full build-out of the Project (22). As generated by EMFAC 2014, an aggregated fuel economy of LHD trucks ranging from model year 1974 to model year 2018 are estimated to have a fuel efficiency of 14.08 mpg. Table 4-8 provides an estimated range of annual fuel consumption resulting from Project generated LHD trucks. Based on Table 4-8, it is estimated that 1,782,855 gallons of fuel will be consumed from Project generated LHD truck trips.

**TABLE 4-8: PROJECT-GENERATED LHD TRUCK TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
25,102,605	14.08	1,782,855

#### MEDIUM-HEAVY DUTY TRUCKS

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's Air Quality Impact Analysis, the Project would generate an estimated 9,284,736 annual VMT along area roadways for all MHD trucks with full build-out of the Project (22). As generated by EMFAC 2014, an aggregated fuel economy of MHD trucks ranging from model year 1974 to model year 2018 are estimated to have a fuel efficiency of 8.5 mpg. Table 4-9 provides an estimated range of annual fuel consumption resulting from Project generated MHD trucks. Based on Table 4-9, it is estimated that 1,092,322 gallons of fuel will be consumed from Project generated MHD truck trips.

**TABLE 4-9: PROJECT-GENERATED MHD TRUCK TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
9,284,736	8.5	1,092,322

#### HEAVY-HEAVY DUTY TRUCKS

With respect to estimated VMT, and based on the trip frequency and trip length methodologies cited in the Project's Air Quality Impact Analysis, the Project would generate an estimated 6,364,041 annual VMT along area roadways for all HHD trucks with full build-out of the Project (22). Additionally, as per the Chino Parcel Delivery Traffic Impact Analysis Urban Crossroads (2018), the Project will produce an additional 38,311 annual VMT from tractor parking activities. The total annual VMT produced by the Project for all HHD trucks is 6,402,352. As generated by EMFAC 2014, an aggregated fuel economy of HHD trucks ranging from model year 1974 to model year 2018 are estimated to have a fuel efficiency of 5.85 mpg. Table 4-10 provides an estimated range of annual fuel consumption resulting from Project generated HHD trucks. Based on Table 4-10, it is estimated that 1,087,870 gallons of fuel will be consumed from Project generated HHD truck trips.

**TABLE 4-10: PROJECT-GENERATED HHD TRUCK TRAFFIC ANNUAL FUEL CONSUMPTION**

Annual Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
6,402,352	5.85	1,094,419

As summarized on Table 4-11, the Project will result in 56,762,231 annual VMT and an estimated annual fuel consumption of 4,528,663 gallons of fuel.

**TABLE 4-11: PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (ALL VEHICLES)**

<b>Vehicle Type</b>	<b>Annual Miles Traveled</b>	<b>Estimated Annual Fuel Consumption (gallons)</b>
Light Duty Autos	15,972,538	559,067
LHD Trucks	25,102,605	1,782,855
MHD Trucks	9,284,736	1,092,322
HHD Trucks	6,402,352	1,094,419
<b>Total (All Vehicles)</b>	<b>56,762,231</b>	<b>4,528,663</b>

#### 4.4.2 FACILITY ENERGY DEMANDS

Project building operations and Project site maintenance activities would result in the consumption of natural gas and electricity. Natural gas would be supplied to the Project by The Gas Company; electricity would be supplied to the Project by Southern California Edison. Annual natural gas and electricity demands of the Project are summarized in Table 4-12.

Energy use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as in plug-in appliances. In California, the California Building Standards Code Title 24 governs energy consumed by the built environment, mechanical systems, and some types of fixed lighting (29). Non-building energy use, or “plug-in” energy use can be further subdivided by specific end-use (refrigeration, cooking, appliances, etc.).

**TABLE 4-12: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY**

<b>Natural Gas Demand</b>	<b>kBTU/year</b>
Unrefrigerated Warehouse - No Rail	966,869
Ancillary Building	52,262
<b>Total Project Natural Gas Demand</b>	<b>1,019,131</b>

<b>Electricity Demand</b>	<b>kWh/year</b>
Unrefrigerated Warehouse - No Rail	1,124,040
Ancillary Building	62,314
<b>Total Project Electricity Demand</b>	<b>1,186,354</b>

#### 4.4.3 OPERATIONAL ENERGY EFFICIENCY/CONSERVATION MEASURES

Energy efficient/energy conserving design features and operational programs that would be implemented under the Project are summarized below. Also noted in the following discussions, energy efficiency/energy conservation attributes of the Project would be complemented by increasingly stringent state and federal regulatory actions addressing vehicle fuel economies and vehicle emissions standards; and enhanced building/utilities energy efficiencies mandated under California building codes (e.g., Title24, California Green Building Code).

The Project would also not result in a substantial increase in demand or transmission service, resulting in the need for new or expanded sources of energy supply or new or expanded energy delivery systems or infrastructure.

## Enhanced Vehicle Fuel Efficiencies

Estimated annual fuel consumption estimates presented previously in Table 4-11 represent likely potential maximums that would occur in the Project. Under subsequent future conditions, average fuel economies of vehicles accessing the Project site can be expected to improve as older, less fuel efficient vehicles are removed from circulation, and in response to fuel economy and emissions standards imposed on newer vehicles entering the circulation system.

## **4.5 SUMMARY**

### **4.5.1 TRANSPORTATION ENERGY DEMANDS**

Annual vehicular trips and related VMT generated by the Project would result in an estimated 559,067 gallons of fuel consumption per year for LDAs. Additionally, the Project would result in an estimated 1,782,855 gallons of fuel consumption per year for LHD trucks. In regards to MHD trucks, the Project would result in an estimated 1,092,322 gallons of fuel consumption per year. For HHD trucks an estimated 1,094,419 gallons of fuel consumption per year is estimated for the year 2020. The total estimated annual fuel consumption from Project generated VMT would result in a fuel demand 4,528,663 gallons of fuel.

Fuel would be provided by current and future commercial vendors. Trip generation and VMT generated by the Project are consistent with other warehouse uses of similar scale and configuration, as reflected respectively in the Institute of Transportation Engineers (ITE) Trip Generation Manual (10th Ed., 2017); and California Emissions Estimator Model (CalEEMod) v2016.3.2. That is, the Project does not propose uses or operations that would inherently result in excessive and wasteful vehicle trips and VMT, nor associated excess and wasteful vehicle energy consumption.

Enhanced fuel economies realized pursuant to federal and state regulatory actions, and related transition of LDVs and HDVs to alternative energy sources (e.g., electricity, natural gas, bio fuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT. Location of the Project proximate to regional and local roadway systems tends to reduce VMT within the region, acting to reduce regional vehicle energy demands. The Project would also implement sidewalks, facilitating and encouraging pedestrian access. Facilitating pedestrian and bicycle access would reduce VMT and associated energy consumption. As supported by the preceding discussions, Project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

### **4.5.2 FACILITY ENERGY DEMANDS**

Project facility operational energy demands are estimated at: 1,019,131 kBtu/year of natural gas; and 1,186,354 kWh/year of electricity. Natural gas would be supplied to the Project by The Gas Company; electricity would be supplied by Southern California Edison. The Project proposes conventional warehouse uses reflecting contemporary energy efficient/energy conserving designs and operational programs. Uses proposed by the Project are not inherently energy intensive, and the Project energy demands in total would be comparable to, or less than, other warehouse projects of similar scale and configuration.

The Project would exceed the incumbent Title 24 standards by a minimum of three percent as previously discussed. Based on the preceding, Project facilities energy demands and energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

#### **4.6 CONCLUSIONS**

As supported by the preceding analyses, Project construction and operations would not result in the inefficient, wasteful or unnecessary consumption of energy. Further, the energy demands of the Project can be accommodated within the context of available resources and energy delivery systems. The Project would therefore not cause or result in the need for additional energy producing or transmission facilities. The Project would not engage in wasteful or inefficient uses of energy and aims to achieve energy conservations goals within the State of California. Notwithstanding, the Project proposes warehousing land use and will not have any long-term effects on an energy provider's future energy development or future energy conservation strategies.

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## **6 CERTIFICATION**

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Chino Parcel Delivery Project. The information contained in this air quality impact report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

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### **EDUCATION**

Master of Science in Environmental Studies  
California State University, Fullerton • May, 2010

Bachelor of Arts in Environmental Analysis and Design  
University of California, Irvine • June, 2006

### **PROFESSIONAL AFFILIATIONS**

AEP – Association of Environmental Planners  
AWMA – Air and Waste Management Association  
ASTM – American Society for Testing and Materials

### **PROFESSIONAL CERTIFICATIONS**

Environmental Site Assessment – American Society for Testing and Materials • June, 2013  
Planned Communities and Urban Infill – Urban Land Institute • June, 2011  
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008  
Principles of Ambient Air Monitoring – California Air Resources Board • August, 2007  
AB2588 Regulatory Standards – Trinity Consultants • November, 2006  
Air Dispersion Modeling – Lakes Environmental • June, 2006

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**APPENDIX 3.1:**  
**CALEEMOD EMISSIONS MODEL OUTPUTS**

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**Chino Parcel Delivery (Construction - Unmitigated)**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	502.81	1000sqft	11.54	502,810.00	0
Other Asphalt Surfaces	4,266.76	1000sqft	51.61	4,266,760.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
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**

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

## Project Characteristics -

Land Use - Total Building (SF) is the sum of 476,285 SF Unrefrigerated Warehouse No-Rail use (Parcel Delivery Building) and 26,529 SF of ancillary building use.

Construction Phase - Construction Schedule adjusted to be consistent with Operational Year.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Off-road Equipment -

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes.

Trips and VMT - Trips adjusted

Demolition -

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	75.00	90.00
tblConstructionPhase	NumDays	1,110.00	250.00
tblConstructionPhase	NumDays	110.00	200.00
tblConstructionPhase	NumDays	75.00	125.00
tblConstructionPhase	NumDays	40.00	20.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.37	0.00

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	10,000.00
tblLandUse	LotAcreage	97.95	51.61
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	472.64	0.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	18.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	782.00	250.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	50.00
tblTripsAndVMT	WorkerTripNumber	2,003.00	250.00
tblTripsAndVMT	WorkerTripNumber	401.00	50.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	116,274,812.50	0.00

## 2.0 Emissions Summary

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## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**2.1 Overall Construction****Unmitigated 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					
2018	0.1574	1.6750	0.9101	1.8000e-003	0.0999	0.0793	0.1793	0.0407	0.0738	0.1144	0.0000	164.0987	164.0987	0.0410	0.0000	165.1230
2019	0.7523	9.1318	4.5836	0.0121	1.2635	0.3373	1.6008	0.4794	0.3112	0.7906	0.0000	1,101.300 1	1,101.300 1	0.2588	0.0000	1,107.770 3
2020	3.6591	7.8307	4.6449	0.0165	0.4911	0.2350	0.7261	0.1346	0.2196	0.3541	0.0000	1,510.814 5	1,510.814 5	0.2033	0.0000	1,515.896 4
Maximum	3.6591	9.1318	4.6449	0.0165	1.2635	0.3373	1.6008	0.4794	0.3112	0.7906	0.0000	1,510.814 5	1,510.814 5	0.2588	0.0000	1,515.896 4

**Mitigated 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					
2018	0.1574	1.6750	0.9101	1.8000e-003	0.0454	0.0793	0.1248	0.0176	0.0738	0.0914	0.0000	164.0985	164.0985	0.0410	0.0000	165.1229
2019	0.7523	9.1318	4.5836	0.0121	0.5848	0.3373	0.9222	0.2122	0.3112	0.5234	0.0000	1,101.299 2	1,101.299 2	0.2588	0.0000	1,107.769 4
2020	3.6591	7.8307	4.6449	0.0165	0.4911	0.2350	0.7261	0.1346	0.2196	0.3541	0.0000	1,510.813 8	1,510.813 8	0.2033	0.0000	1,515.895 7
Maximum	3.6591	9.1318	4.6449	0.0165	0.5848	0.3373	0.9222	0.2122	0.3112	0.5234	0.0000	1,510.813 8	1,510.813 8	0.2588	0.0000	1,515.895 7

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

	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	39.54	0.00	29.25	44.34	0.00	23.05	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-14-2018	12-13-2018	1.4396	1.4396
2	12-14-2018	3-13-2019	2.3745	2.3745
3	3-14-2019	6-13-2019	2.4838	2.4838
4	6-14-2019	9-13-2019	2.4837	2.4837
5	9-14-2019	12-13-2019	2.4534	2.4534
6	12-14-2019	3-13-2020	2.2914	2.2914
7	3-14-2020	6-13-2020	2.2802	2.2802
8	6-14-2020	9-13-2020	3.1901	3.1901
9	9-14-2020	9-30-2020	0.9781	0.9781
		Highest	3.1901	3.1901

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**2.2 Overall Operational****Unmitigated 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	2.3909	5.7000e-004	0.0613	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1184	0.1184	3.2000e-004	0.0000	0.1263	
Energy	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	
Mobile	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	
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>	<b>2.3909</b>	<b>5.7000e-004</b>	<b>0.0613</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.1184</b>	<b>0.1184</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.1263</b>	

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**2.2 Overall Operational****Mitigated 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	2.3909	5.7000e-004	0.0613	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1184	0.1184	3.2000e-004	0.0000	0.1263	
Energy	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	
Mobile	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	
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>	<b>2.3909</b>	<b>5.7000e-004</b>	<b>0.0613</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.1184</b>	<b>0.1184</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.1263</b>	

	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
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**

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/14/2018	12/20/2018	5	70	
2	Site Preparation	Site Preparation	12/21/2018	1/17/2019	5	20	
3	Grading	Grading	1/18/2019	10/24/2019	5	200	
4	Building Construction	Building Construction	10/25/2019	10/8/2020	5	250	
5	Paving	Paving	7/9/2020	12/30/2020	5	125	
6	Architectural Coating	Architectural Coating	8/27/2020	12/30/2020	5	90	

**Acres of Grading (Site Preparation Phase): 40**

**Acres of Grading (Grading Phase): 700**

**Acres of Paving: 51.61**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 754,215; Non-Residential Outdoor: 251,405; Striped Parking Area: 256,006 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Crawler Tractors	3	8.00	212	0.43
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

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	6	15.00	15.00	46.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	18.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	20.00	1,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	250.00	250.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	15.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2018****Unmitigated 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					4.9400e-003	0.0000	4.9400e-003	7.5000e-004	0.0000	7.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1302	1.3413	0.7806	1.3600e-003		0.0679	0.0679		0.0632	0.0632	0.0000	122.9343	122.9343	0.0339	0.0000	123.7810
Total	0.1302	1.3413	0.7806	1.3600e-003	4.9400e-003	0.0679	0.0728	7.5000e-004	0.0632	0.0639	0.0000	122.9343	122.9343	0.0339	0.0000	123.7810

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.2 Demolition - 2018****Unmitigated 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	1.7000e-004	6.6500e-003	9.8000e-004	2.0000e-005	4.0000e-004	2.0000e-005	4.2000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	1.7574	1.7574	1.0000e-004	0.0000	1.7600	
Vendor	2.1500e-003	0.0654	0.0149	1.4000e-004	3.3100e-003	4.5000e-004	3.7600e-003	9.6000e-004	4.3000e-004	1.3900e-003	0.0000	13.6340	13.6340	9.9000e-004	0.0000	13.6589	
Worker	3.1000e-003	2.6100e-003	0.0256	6.0000e-005	5.7600e-003	4.0000e-005	5.8000e-003	1.5300e-003	4.0000e-005	1.5700e-003	0.0000	5.2722	5.2722	1.9000e-004	0.0000	5.2770	
Total	5.4200e-003	0.0746	0.0414	2.2000e-004	9.4700e-003	5.1000e-004	9.9800e-003	2.6000e-003	4.9000e-004	3.0900e-003	0.0000	20.6636	20.6636	1.2800e-003	0.0000	20.6958	

**Mitigated 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					1.9300e-003	0.0000	1.9300e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.1302	1.3413	0.7806	1.3600e-003	1.9300e-003	0.0679	0.0679		0.0632	0.0632	0.0000	122.9341	122.9341	0.0339	0.0000	123.7809	
Total	0.1302	1.3413	0.7806	1.3600e-003	1.9300e-003	0.0679	0.0698	2.9000e-004	0.0632	0.0635	0.0000	122.9341	122.9341	0.0339	0.0000	123.7809	

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.2 Demolition - 2018****Mitigated 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	1.7000e-004	6.6500e-003	9.8000e-004	2.0000e-005	4.0000e-004	2.0000e-005	4.2000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	1.7574	1.7574	1.0000e-004	0.0000	1.7600	
Vendor	2.1500e-003	0.0654	0.0149	1.4000e-004	3.3100e-003	4.5000e-004	3.7600e-003	9.6000e-004	4.3000e-004	1.3900e-003	0.0000	13.6340	13.6340	9.9000e-004	0.0000	13.6589	
Worker	3.1000e-003	2.6100e-003	0.0256	6.0000e-005	5.7600e-003	4.0000e-005	5.8000e-003	1.5300e-003	4.0000e-005	1.5700e-003	0.0000	5.2722	5.2722	1.9000e-004	0.0000	5.2770	
Total	5.4200e-003	0.0746	0.0414	2.2000e-004	9.4700e-003	5.1000e-004	9.9800e-003	2.6000e-003	4.9000e-004	3.0900e-003	0.0000	20.6636	20.6636	1.2800e-003	0.0000	20.6958	

**3.3 Site Preparation - 2018****Unmitigated 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					0.0844	0.0000	0.0844	0.0371	0.0000	0.0371	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0212	0.2509	0.0832	2.0000e-004		0.0109	0.0109		0.0100	0.0100	0.0000	18.2321	18.2321	5.6800e-003	0.0000	18.3739	
Total	0.0212	0.2509	0.0832	2.0000e-004	0.0844	0.0109	0.0954	0.0371	0.0100	0.0471	0.0000	18.2321	18.2321	5.6800e-003	0.0000	18.3739	

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.3 Site Preparation - 2018****Unmitigated 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	2.6000e-004	7.8400e-003	1.7800e-003	2.0000e-005	4.0000e-004	5.0000e-005	4.5000e-004	1.1000e-004	5.0000e-005	1.7000e-004	0.0000	1.6361	1.6361	1.2000e-004	0.0000	1.6391	
Worker	3.7000e-004	3.1000e-004	3.0700e-003	1.0000e-005	6.9000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.6327	0.6327	2.0000e-005	0.0000	0.6332	
Total	6.3000e-004	8.1500e-003	4.8500e-003	3.0000e-005	1.0900e-003	5.0000e-005	1.1500e-003	2.9000e-004	5.0000e-005	3.6000e-004	0.0000	2.2687	2.2687	1.4000e-004	0.0000	2.2723	

**Mitigated 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					0.0329	0.0000	0.0329	0.0145	0.0000	0.0145	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0212	0.2509	0.0832	2.0000e-004		0.0109	0.0109		0.0100	0.0100	0.0000	18.2320	18.2320	5.6800e-003	0.0000	18.3739	
Total	0.0212	0.2509	0.0832	2.0000e-004	0.0329	0.0109	0.0439	0.0145	0.0100	0.0245	0.0000	18.2320	18.2320	5.6800e-003	0.0000	18.3739	

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.3 Site Preparation - 2018****Mitigated 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	2.6000e-004	7.8400e-003	1.7800e-003	2.0000e-005	4.0000e-004	5.0000e-005	4.5000e-004	1.1000e-004	5.0000e-005	1.7000e-004	0.0000	1.6361	1.6361	1.2000e-004	0.0000	1.6391	
Worker	3.7000e-004	3.1000e-004	3.0700e-003	1.0000e-005	6.9000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.6327	0.6327	2.0000e-005	0.0000	0.6332	
Total	6.3000e-004	8.1500e-003	4.8500e-003	3.0000e-005	1.0900e-003	5.0000e-005	1.1500e-003	2.9000e-004	5.0000e-005	3.6000e-004	0.0000	2.2687	2.2687	1.4000e-004	0.0000	2.2723	

**3.3 Site Preparation - 2019****Unmitigated 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					0.1386	0.0000	0.1386	0.0668	0.0000	0.0668	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0380	0.4433	0.1506	3.7000e-004		0.0193	0.0193		0.0178	0.0178	0.0000	33.2893	33.2893	0.0105	0.0000	33.5527
Total	0.0380	0.4433	0.1506	3.7000e-004	0.1386	0.0193	0.1580	0.0668	0.0178	0.0846	0.0000	33.2893	33.2893	0.0105	0.0000	33.5527

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.3 Site Preparation - 2019****Unmitigated 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	4.3000e-004	0.0137	2.9600e-003	3.0000e-005	7.4000e-004	8.0000e-005	8.2000e-004	2.1000e-004	8.0000e-005	2.9000e-004	0.0000	3.0079	3.0079	2.2000e-004	0.0000	3.0133	
Worker	6.3000e-004	5.1000e-004	5.0400e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1350	1.1350	4.0000e-005	0.0000	1.1359	
Total	1.0600e-003	0.0142	8.0000e-003	4.0000e-005	2.0200e-003	9.0000e-005	2.1100e-003	5.5000e-004	9.0000e-005	6.4000e-004	0.0000	4.1429	4.1429	2.6000e-004	0.0000	4.1492	

**Mitigated 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					0.0541	0.0000	0.0541	0.0261	0.0000	0.0261	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0380	0.4433	0.1506	3.7000e-004		0.0193	0.0193		0.0178	0.0178	0.0000	33.2893	33.2893	0.0105	0.0000	33.5526	
Total	0.0380	0.4433	0.1506	3.7000e-004	0.0541	0.0193	0.0734	0.0261	0.0178	0.0438	0.0000	33.2893	33.2893	0.0105	0.0000	33.5526	

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.3 Site Preparation - 2019****Mitigated 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	4.3000e-004	0.0137	2.9600e-003	3.0000e-005	7.4000e-004	8.0000e-005	8.2000e-004	2.1000e-004	8.0000e-005	2.9000e-004	0.0000	3.0079	3.0079	2.2000e-004	0.0000	3.0133	
Worker	6.3000e-004	5.1000e-004	5.0400e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1350	1.1350	4.0000e-005	0.0000	1.1359	
Total	1.0600e-003	0.0142	8.0000e-003	4.0000e-005	2.0200e-003	9.0000e-005	2.1100e-003	5.5000e-004	9.0000e-005	6.4000e-004	0.0000	4.1429	4.1429	2.6000e-004	0.0000	4.1492	

**3.4 Grading - 2019****Unmitigated 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					0.9740	0.0000	0.9740	0.3712	0.0000	0.3712	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5494	6.5834	3.3931	7.1500e-003		0.2674	0.2674		0.2460	0.2460	0.0000	642.2416	642.2416	0.2032	0.0000	647.3216
Total	0.5494	6.5834	3.3931	7.1500e-003	0.9740	0.2674	1.2413	0.3712	0.2460	0.6172	0.0000	642.2416	642.2416	0.2032	0.0000	647.3216

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.4 Grading - 2019****Unmitigated 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	4.2700e-003	0.1694	0.0254	4.9000e-004	0.0108	5.6000e-004	0.0113	2.9500e-003	5.3000e-004	3.4900e-003	0.0000	47.1813	47.1813	2.7200e-003	0.0000	47.2493	
Vendor	7.3200e-003	0.2336	0.0506	5.4000e-004	0.0126	1.4500e-003	0.0141	3.6400e-003	1.3900e-003	5.0200e-003	0.0000	51.4168	51.4168	3.7000e-003	0.0000	51.5093	
Worker	0.0107	8.7500e-003	0.0862	2.1000e-004	0.0219	1.5000e-004	0.0221	5.8200e-003	1.4000e-004	5.9600e-003	0.0000	19.4013	19.4013	6.4000e-004	0.0000	19.4173	
<b>Total</b>	<b>0.0223</b>	<b>0.4118</b>	<b>0.1622</b>	<b>1.2400e-003</b>	<b>0.0453</b>	<b>2.1600e-003</b>	<b>0.0475</b>	<b>0.0124</b>	<b>2.0600e-003</b>	<b>0.0145</b>	<b>0.0000</b>	<b>117.9994</b>	<b>117.9994</b>	<b>7.0600e-003</b>	<b>0.0000</b>	<b>118.1759</b>	

**Mitigated 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					0.3798	0.0000	0.3798	0.1448	0.0000	0.1448	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.5494	6.5834	3.3931	7.1500e-003		0.2674	0.2674		0.2460	0.2460	0.0000	642.2408	642.2408	0.2032	0.0000	647.3208	
<b>Total</b>	<b>0.5494</b>	<b>6.5834</b>	<b>3.3931</b>	<b>7.1500e-003</b>	<b>0.3798</b>	<b>0.2674</b>	<b>0.6472</b>	<b>0.1448</b>	<b>0.2460</b>	<b>0.3907</b>	<b>0.0000</b>	<b>642.2408</b>	<b>642.2408</b>	<b>0.2032</b>	<b>0.0000</b>	<b>647.3208</b>	

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.4 Grading - 2019****Mitigated 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	4.2700e-003	0.1694	0.0254	4.9000e-004	0.0108	5.6000e-004	0.0113	2.9500e-003	5.3000e-004	3.4900e-003	0.0000	47.1813	47.1813	2.7200e-003	0.0000	47.2493	
Vendor	7.3200e-003	0.2336	0.0506	5.4000e-004	0.0126	1.4500e-003	0.0141	3.6400e-003	1.3900e-003	5.0200e-003	0.0000	51.4168	51.4168	3.7000e-003	0.0000	51.5093	
Worker	0.0107	8.7500e-003	0.0862	2.1000e-004	0.0219	1.5000e-004	0.0221	5.8200e-003	1.4000e-004	5.9600e-003	0.0000	19.4013	19.4013	6.4000e-004	0.0000	19.4173	
Total	0.0223	0.4118	0.1622	1.2400e-003	0.0453	2.1600e-003	0.0475	0.0124	2.0600e-003	0.0145	0.0000	117.9994	117.9994	7.0600e-003	0.0000	118.1759	

**3.5 Building Construction - 2019****Unmitigated 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	0.0875	0.9522	0.4595	1.0300e-003		0.0436	0.0436		0.0407	0.0407	0.0000	91.1728	91.1728	0.0247	0.0000	91.7913	
Total	0.0875	0.9522	0.4595	1.0300e-003		0.0436	0.0436		0.0407	0.0407	0.0000	91.1728	91.1728	0.0247	0.0000	91.7913	

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.5 Building Construction - 2019****Unmitigated 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	0.0220	0.7007	0.1518	1.6100e-003	0.0378	4.3500e-003	0.0422	0.0109	4.1600e-003	0.0151	0.0000	154.2503	154.2503	0.0111	0.0000	154.5278	
Worker	0.0322	0.0262	0.2585	6.4000e-004	0.0658	4.5000e-004	0.0662	0.0175	4.2000e-004	0.0179	0.0000	58.2039	58.2039	1.9200e-003	0.0000	58.2520	
<b>Total</b>	<b>0.0541</b>	<b>0.7270</b>	<b>0.4103</b>	<b>2.2500e-003</b>	<b>0.1036</b>	<b>4.8000e-003</b>	<b>0.1084</b>	<b>0.0284</b>	<b>4.5800e-003</b>	<b>0.0330</b>	<b>0.0000</b>	<b>212.4542</b>	<b>212.4542</b>	<b>0.0130</b>	<b>0.0000</b>	<b>212.7798</b>	

**Mitigated 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	0.0875	0.9522	0.4595	1.0300e-003		0.0436	0.0436		0.0407	0.0407	0.0000	91.1727	91.1727	0.0247	0.0000	91.7912	
<b>Total</b>	<b>0.0875</b>	<b>0.9522</b>	<b>0.4595</b>	<b>1.0300e-003</b>		<b>0.0436</b>	<b>0.0436</b>		<b>0.0407</b>	<b>0.0407</b>	<b>0.0000</b>	<b>91.1727</b>	<b>91.1727</b>	<b>0.0247</b>	<b>0.0000</b>	<b>91.7912</b>	

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.5 Building Construction - 2019****Mitigated 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	0.0220	0.7007	0.1518	1.6100e-003	0.0378	4.3500e-003	0.0422	0.0109	4.1600e-003	0.0151	0.0000	154.2503	154.2503	0.0111	0.0000	154.5278	
Worker	0.0322	0.0262	0.2585	6.4000e-004	0.0658	4.5000e-004	0.0662	0.0175	4.2000e-004	0.0179	0.0000	58.2039	58.2039	1.9200e-003	0.0000	58.2520	
Total	0.0541	0.7270	0.4103	2.2500e-003	0.1036	4.8000e-003	0.1084	0.0284	4.5800e-003	0.0330	0.0000	212.4542	212.4542	0.0130	0.0000	212.7798	

**3.5 Building Construction - 2020****Unmitigated 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	0.3397	3.7044	1.8815	4.3500e-003		0.1654	0.1654		0.1544	0.1544	0.0000	376.9992	376.9992	0.1033	0.0000	379.5828	
Total	0.3397	3.7044	1.8815	4.3500e-003		0.1654	0.1654		0.1544	0.1544	0.0000	376.9992	376.9992	0.1033	0.0000	379.5828	

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.5 Building Construction - 2020****Unmitigated 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	0.0783	2.6955	0.5637	6.7400e-003	0.1592	0.0123	0.1715	0.0460	0.0118	0.0577	0.0000	644.6756	644.6756	0.0446	0.0000	645.7908	
Worker	0.1247	0.0980	0.9793	2.6300e-003	0.2769	1.8500e-003	0.2787	0.0735	1.7000e-003	0.0752	0.0000	237.3046	237.3046	7.1300e-003	0.0000	237.4827	
<b>Total</b>	<b>0.2031</b>	<b>2.7936</b>	<b>1.5430</b>	<b>9.3700e-003</b>	<b>0.4361</b>	<b>0.0142</b>	<b>0.4502</b>	<b>0.1195</b>	<b>0.0135</b>	<b>0.1330</b>	<b>0.0000</b>	<b>881.9802</b>	<b>881.9802</b>	<b>0.0517</b>	<b>0.0000</b>	<b>883.2735</b>	

**Mitigated 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	0.3397	3.7044	1.8815	4.3500e-003		0.1654	0.1654		0.1544	0.1544	0.0000	376.9988	376.9988	0.1033	0.0000	379.5824	
<b>Total</b>	<b>0.3397</b>	<b>3.7044</b>	<b>1.8815</b>	<b>4.3500e-003</b>		<b>0.1654</b>	<b>0.1654</b>		<b>0.1544</b>	<b>0.1544</b>	<b>0.0000</b>	<b>376.9988</b>	<b>376.9988</b>	<b>0.1033</b>	<b>0.0000</b>	<b>379.5824</b>	

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.5 Building Construction - 2020****Mitigated 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	0.0783	2.6955	0.5637	6.7400e-003	0.1592	0.0123	0.1715	0.0460	0.0118	0.0577	0.0000	644.6756	644.6756	0.0446	0.0000	645.7908	
Worker	0.1247	0.0980	0.9793	2.6300e-003	0.2769	1.8500e-003	0.2787	0.0735	1.7000e-003	0.0752	0.0000	237.3046	237.3046	7.1300e-003	0.0000	237.4827	
Total	0.2031	2.7936	1.5430	9.3700e-003	0.4361	0.0142	0.4502	0.1195	0.0135	0.1330	0.0000	881.9802	881.9802	0.0517	0.0000	883.2735	

**3.6 Paving - 2020****Unmitigated 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	0.0848	0.8791	0.9158	1.4200e-003		0.0471	0.0471		0.0433	0.0433	0.0000	125.1764	125.1764	0.0405	0.0000	126.1885	
Paving	0.0676					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total	0.1524	0.8791	0.9158	1.4200e-003		0.0471	0.0471		0.0433	0.0433	0.0000	125.1764	125.1764	0.0405	0.0000	126.1885	

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.6 Paving - 2020****Unmitigated 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	2.9100e-003	0.1001	0.0209	2.5000e-004	5.9100e-003	4.6000e-004	6.3700e-003	1.7100e-003	4.4000e-004	2.1400e-003	0.0000	23.9360	23.9360	1.6600e-003	0.0000	23.9774	
Worker	4.6300e-003	3.6400e-003	0.0364	1.0000e-004	0.0103	7.0000e-005	0.0104	2.7300e-003	6.0000e-005	2.7900e-003	0.0000	8.8108	8.8108	2.6000e-004	0.0000	8.8174	
Total	7.5400e-003	0.1037	0.0573	3.5000e-004	0.0162	5.3000e-004	0.0167	4.4400e-003	5.0000e-004	4.9300e-003	0.0000	32.7468	32.7468	1.9200e-003	0.0000	32.7948	

**Mitigated 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	0.0848	0.8791	0.9158	1.4200e-003		0.0471	0.0471		0.0433	0.0433	0.0000	125.1762	125.1762	0.0405	0.0000	126.1883	
Paving	0.0676					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total	0.1524	0.8791	0.9158	1.4200e-003		0.0471	0.0471		0.0433	0.0433	0.0000	125.1762	125.1762	0.0405	0.0000	126.1883	

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.6 Paving - 2020****Mitigated 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	2.9100e-003	0.1001	0.0209	2.5000e-004	5.9100e-003	4.6000e-004	6.3700e-003	1.7100e-003	4.4000e-004	2.1400e-003	0.0000	23.9360	23.9360	1.6600e-003	0.0000	23.9774	
Worker	4.6300e-003	3.6400e-003	0.0364	1.0000e-004	0.0103	7.0000e-005	0.0104	2.7300e-003	6.0000e-005	2.7900e-003	0.0000	8.8108	8.8108	2.6000e-004	0.0000	8.8174	
Total	7.5400e-003	0.1037	0.0573	3.5000e-004	0.0162	5.3000e-004	0.0167	4.4400e-003	5.0000e-004	4.9300e-003	0.0000	32.7468	32.7468	1.9200e-003	0.0000	32.7948	

**3.7 Architectural Coating - 2020****Unmitigated 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	2.9238						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0145	0.1010	0.1099	1.8000e-004		6.6600e-003	6.6600e-003		6.6600e-003	6.6600e-003	0.0000	15.3195	15.3195	1.1900e-003	0.0000	15.3492	
Total	2.9384	0.1010	0.1099	1.8000e-004		6.6600e-003	6.6600e-003		6.6600e-003	6.6600e-003	0.0000	15.3195	15.3195	1.1900e-003	0.0000	15.3492	

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.7 Architectural Coating - 2020****Unmitigated 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	6.9800e-003	0.2402	0.0502	6.0000e-004	0.0142	1.1000e-003	0.0153	4.0900e-003	1.0500e-003	5.1400e-003	0.0000	57.4463	57.4463	3.9700e-003	0.0000	57.5457	
Worker	0.0111	8.7300e-003	0.0873	2.3000e-004	0.0247	1.6000e-004	0.0248	6.5500e-003	1.5000e-004	6.7000e-003	0.0000	21.1460	21.1460	6.4000e-004	0.0000	21.1618	
<b>Total</b>	<b>0.0181</b>	<b>0.2489</b>	<b>0.1375</b>	<b>8.3000e-004</b>	<b>0.0389</b>	<b>1.2600e-003</b>	<b>0.0401</b>	<b>0.0106</b>	<b>1.2000e-003</b>	<b>0.0118</b>	<b>0.0000</b>	<b>78.5923</b>	<b>78.5923</b>	<b>4.6100e-003</b>	<b>0.0000</b>	<b>78.7075</b>	

**Mitigated 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	2.9238						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0145	0.1010	0.1099	1.8000e-004		6.6600e-003	6.6600e-003		6.6600e-003	6.6600e-003	0.0000	15.3195	15.3195	1.1900e-003	0.0000	15.3492	
<b>Total</b>	<b>2.9384</b>	<b>0.1010</b>	<b>0.1099</b>	<b>1.8000e-004</b>		<b>6.6600e-003</b>	<b>6.6600e-003</b>		<b>6.6600e-003</b>	<b>6.6600e-003</b>	<b>0.0000</b>	<b>15.3195</b>	<b>15.3195</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>15.3492</b>	

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**3.7 Architectural Coating - 2020****Mitigated 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	6.9800e-003	0.2402	0.0502	6.0000e-004	0.0142	1.1000e-003	0.0153	4.0900e-003	1.0500e-003	5.1400e-003	0.0000	57.4463	57.4463	3.9700e-003	0.0000	57.5457	
Worker	0.0111	8.7300e-003	0.0873	2.3000e-004	0.0247	1.6000e-004	0.0248	6.5500e-003	1.5000e-004	6.7000e-003	0.0000	21.1460	21.1460	6.4000e-004	0.0000	21.1618	
Total	<b>0.0181</b>	<b>0.2489</b>	<b>0.1375</b>	<b>8.3000e-004</b>	<b>0.0389</b>	<b>1.2600e-003</b>	<b>0.0401</b>	<b>0.0106</b>	<b>1.2000e-003</b>	<b>0.0118</b>	<b>0.0000</b>	<b>78.5923</b>	<b>78.5923</b>	<b>4.6100e-003</b>	<b>0.0000</b>	<b>78.7075</b>	

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

	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				
Mitigated	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	
Unmitigated	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	

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT		Annual VMT	
Other Asphalt Surfaces	0.00	0.00	0.00				
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00				
Total	0.00	0.00	0.00				

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	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
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082
Unrefrigerated Warehouse-No Rail	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082

## **Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual**

## 5.0 Energy Detail

## Historical Energy Use: N

### **5.1 Mitigation Measures Energy**

## **Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual**

## 5.2 Energy by Land Use - NaturalGas

## Unmitigated

### **Mitigated**

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

	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					
Mitigated	2.3909	5.7000e-004	0.0613	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1184	0.1184	3.2000e-004	0.0000	0.1263	
Unmitigated	2.3909	5.7000e-004	0.0613	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1184	0.1184	3.2000e-004	0.0000	0.1263	

## 6.2 Area by SubCategory

Unmitigated

	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	0.2924					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	2.0927					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	5.7600e-003	5.7000e-004	0.0613	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1184	0.1184	3.2000e-004	0.0000	0.1263	
Total	2.3909	5.7000e-004	0.0613	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1184	0.1184	3.2000e-004	0.0000	0.1263	

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**6.2 Area by SubCategory****Mitigated**

	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	0.2924						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0927						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7600e-003	5.7000e-004	0.0613	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1184	0.1184	3.2000e-004	0.0000	0.1263
<b>Total</b>	<b>2.3909</b>	<b>5.7000e-004</b>	<b>0.0613</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.1184</b>	<b>0.1184</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.1263</b>

**7.0 Water Detail****7.1 Mitigation Measures Water**

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use****Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**7.2 Water by Land Use****Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Chino Parcel Delivery (Construction - Unmitigated) - San Bernardino-South Coast County, Annual

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

**Chino Parcel Delivery (Operations - Passenger Cars)**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	476.29	1000sqft	10.93	476,290.00	0
Other Asphalt Surfaces	4,266.76	1000sqft	52.19	4,266,760.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
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**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

## Project Characteristics -

Land Use - Lot Acreage based on Site Plan.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Operations Run Only.

Operational Off-Road Equipment - Operational Equipment List provided by the Client.

Fleet Mix - Operations Run Only.

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	1.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.55	1.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.4600e-003	0.00
tblFleetMix	MCY	6.1170e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0820e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3370e-003	0.00
tblFleetMix	SBUS	8.1700e-004	0.00
tblFleetMix	UBUS	1.6570e-003	0.00
tblLandUse	LotAcreage	97.95	52.19
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHorsePower	89.00	200.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.39
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	5.55
tblVehicleTrips	SU_TR	1.68	5.55
tblVehicleTrips	WD_TR	1.68	5.55

**2.0 Emissions Summary**

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## 2.1 Overall Construction

## Unmitigated Construction

## Mitigated Construction

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational****Unmitigated 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	2.2827	5.6000e-004	0.0609	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1177	0.1177	3.2000e-004	0.0000	0.1256	
Energy	5.2100e-003	0.0474	0.0398	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003	0.0000	409.7404	409.7404	0.0158	4.0100e-003	411.3283	
Mobile	0.6024	1.1851	13.1386	0.0486	5.9516	0.0330	5.9846	1.5800	0.0304	1.6104	0.0000	4,394.574 4	4,394.574 4	0.0894	0.0000	4,396.809 7	
Offroad	0.2941	3.2553	1.4479	4.9100e-003		0.1264	0.1264		0.1163	0.1163	0.0000	431.2184	431.2184	0.1395	0.0000	434.7051	
Waste						0.0000	0.0000		0.0000	0.0000	90.8811	0.0000	90.8811	5.3709	0.0000	225.1540	
Water						0.0000	0.0000		0.0000	0.0000	34.9430	456.9540	491.8970	3.6079	0.0887	608.5099	
<b>Total</b>	<b>3.1844</b>	<b>4.4883</b>	<b>14.6872</b>	<b>0.0537</b>	<b>5.9516</b>	<b>0.1632</b>	<b>6.1148</b>	<b>1.5800</b>	<b>0.1505</b>	<b>1.7305</b>	<b>125.8241</b>	<b>5,692.605 0</b>	<b>5,818.429 1</b>	<b>9.2237</b>	<b>0.0927</b>	<b>6,076.632 6</b>	

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

**2.2 Overall Operational****Mitigated 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	2.2827	5.6000e-004	0.0609	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1177	0.1177	3.2000e-004	0.0000	0.1256	
Energy	5.0600e-003	0.0460	0.0386	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	406.5309	406.5309	0.0157	3.9600e-003	408.1037	
Mobile	0.6024	1.1851	13.1386	0.0486	5.9516	0.0330	5.9846	1.5800	0.0304	1.6104	0.0000	4,394.574 4	4,394.574 4	0.0894	0.0000	4,396.809 7	
Offroad	0.2941	3.2553	1.4479	4.9100e-003		0.1264	0.1264		0.1163	0.1163	0.0000	431.2184	431.2184	0.1395	0.0000	434.7051	
Waste						0.0000	0.0000		0.0000	0.0000	90.8811	0.0000	90.8811	5.3709	0.0000	225.1540	
Water						0.0000	0.0000		0.0000	0.0000	34.9430	456.9540	491.8970	3.6079	0.0887	608.5099	
<b>Total</b>	<b>3.1842</b>	<b>4.4869</b>	<b>14.6860</b>	<b>0.0537</b>	<b>5.9516</b>	<b>0.1631</b>	<b>6.1147</b>	<b>1.5800</b>	<b>0.1504</b>	<b>1.7304</b>	<b>125.8241</b>	<b>5,689.395 6</b>	<b>5,815.219 6</b>	<b>9.2236</b>	<b>0.0926</b>	<b>6,073.408 0</b>	

	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
Percent Reduction	0.00	0.03	0.01	0.00	0.00	0.06	0.00	0.00	0.07	0.01	0.00	0.06	0.06	0.00	0.05	0.05

**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	9/14/2018	9/14/2018	5	1	

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 0****Acres of Paving: 52.19****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

**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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## **Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual**

## **3.2 Demolition - 2018**

## **Unmitigated Construction On-Site**

### **Unmitigated Construction Off-Site**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

**3.2 Demolition - 2018****Mitigated 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	0.0000	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	
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>								

**Mitigated 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	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	
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>								

**4.0 Operational Detail - Mobile**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

**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					
Mitigated	0.6024	1.1851	13.1386	0.0486	5.9516	0.0330	5.9846	1.5800	0.0304	1.6104	0.0000	4,394.574 4	4,394.574 4	0.0894	0.0000	4,396.809 7
Unmitigated	0.6024	1.1851	13.1386	0.0486	5.9516	0.0330	5.9846	1.5800	0.0304	1.6104	0.0000	4,394.574 4	4,394.574 4	0.0894	0.0000	4,396.809 7

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	2,643.41	2,643.41	2,643.41	15,972,538	15,972,538
Total	2,643.41	2,643.41	2,643.41	15,972,538	15,972,538

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082
Unrefrigerated Warehouse-No Rail	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

	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 Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	356.4601	356.4601	0.0147	3.0400e-003	357.7354
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	358.1446	358.1446	0.0148	3.0600e-003	359.4259
NaturalGas Mitigated	5.0600e-003	0.0460	0.0386	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.0708	50.0708	9.6000e-004	9.2000e-004	50.3683
NaturalGas Unmitigated	5.2100e-003	0.0474	0.0398	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003	0.0000	51.5958	51.5958	9.9000e-004	9.5000e-004	51.9024

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	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					
Other Asphalt Surfaces	0	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
Unrefrigerated Warehouse-No Rail	966869	5.2100e-003	0.0474	0.0398	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003	0.0000	51.5958	51.5958	9.9000e-004	9.5000e-004	51.9024
<b>Total</b>		<b>5.2100e-003</b>	<b>0.0474</b>	<b>0.0398</b>	<b>2.8000e-004</b>		<b>3.6000e-003</b>	<b>3.6000e-003</b>		<b>3.6000e-003</b>	<b>3.6000e-003</b>	<b>0.0000</b>	<b>51.5958</b>	<b>51.5958</b>	<b>9.9000e-004</b>	<b>9.5000e-004</b>	<b>51.9024</b>

**Mitigated**

	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					
Other Asphalt Surfaces	0	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
Unrefrigerated Warehouse-No Rail	938291	5.0600e-003	0.0460	0.0386	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.0708	50.0708	9.6000e-004	9.2000e-004	50.3683
<b>Total</b>		<b>5.0600e-003</b>	<b>0.0460</b>	<b>0.0386</b>	<b>2.8000e-004</b>		<b>3.5000e-003</b>	<b>3.5000e-003</b>		<b>3.5000e-003</b>	<b>3.5000e-003</b>	<b>0.0000</b>	<b>50.0708</b>	<b>50.0708</b>	<b>9.6000e-004</b>	<b>9.2000e-004</b>	<b>50.3683</b>

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.12404e +006	358.1446	0.0148	3.0600e-003	359.4259
<b>Total</b>		<b>358.1446</b>	<b>0.0148</b>	<b>3.0600e-003</b>	<b>359.4259</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.11876e +006	356.4601	0.0147	3.0400e-003	357.7354
<b>Total</b>		<b>356.4601</b>	<b>0.0147</b>	<b>3.0400e-003</b>	<b>357.7354</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

	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					
Mitigated	2.2827	5.6000e-004	0.0609	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1177	0.1177	3.2000e-004	0.0000	0.1256	
Unmitigated	2.2827	5.6000e-004	0.0609	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1177	0.1177	3.2000e-004	0.0000	0.1256	

**6.2 Area by SubCategory**Unmitigated

	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	0.2801					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	1.9969					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	5.7300e-003	5.6000e-004	0.0609	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1177	0.1177	3.2000e-004	0.0000	0.1256	
<b>Total</b>	<b>2.2827</b>	<b>5.6000e-004</b>	<b>0.0609</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.1177</b>	<b>0.1177</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.1256</b>	

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

**6.2 Area by SubCategory****Mitigated**

	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	0.2801						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9969						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7300e-003	5.6000e-004	0.0609	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1177	0.1177	3.2000e-004	0.0000	0.1256
<b>Total</b>	<b>2.2827</b>	<b>5.6000e-004</b>	<b>0.0609</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.1177</b>	<b>0.1177</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.1256</b>

**7.0 Water Detail****7.1 Mitigation Measures Water**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	491.8970	3.6079	0.0887	608.5099
Unmitigated	491.8970	3.6079	0.0887	608.5099

**7.2 Water by Land Use****Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	110.142 / 0	491.8970	3.6079	0.0887	608.5099
<b>Total</b>		<b>491.8970</b>	<b>3.6079</b>	<b>0.0887</b>	<b>608.5099</b>

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

**7.2 Water by Land Use****Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	110.142 / 0	491.8970	3.6079	0.0887	608.5099
<b>Total</b>		<b>491.8970</b>	<b>3.6079</b>	<b>0.0887</b>	<b>608.5099</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	90.8811	5.3709	0.0000	225.1540
Unmitigated	90.8811	5.3709	0.0000	225.1540

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	447.71	90.8811	5.3709	0.0000	225.1540
<b>Total</b>		<b>90.8811</b>	<b>5.3709</b>	<b>0.0000</b>	<b>225.1540</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	447.71	90.8811	5.3709	0.0000	225.1540
<b>Total</b>		<b>90.8811</b>	<b>5.3709</b>	<b>0.0000</b>	<b>225.1540</b>

**9.0 Operational Offroad**

## Chino Parcel Delivery (Operations - Passenger Cars) - San Bernardino-South Coast County, Annual

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	4	8.00	365	200	0.39	Diesel

UnMitigated/Mitigated

	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
Equipment Type	tons/yr										MT/yr					
Forklifts	0.2941	3.2553	1.4479	4.9100e-003		0.1264	0.1264		0.1163	0.1163	0.0000	431.2184	431.2184	0.1395	0.0000	434.7051
Total	0.2941	3.2553	1.4479	4.9100e-003		0.1264	0.1264		0.1163	0.1163	0.0000	431.2184	431.2184	0.1395	0.0000	434.7051

## 10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

**Chino Parcel Delivery (Operations - Trucks)**  
**San Bernardino-South Coast County, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	476.29	1000sqft	10.93	476,290.00	0
Other Asphalt Surfaces	4,266.76	1000sqft	52.19	4,266,760.00	0

### 1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
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

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

## Project Characteristics -

Land Use - Lot Acreage based on Site Plan.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Operations Run Only.

Operational Off-Road Equipment - Operational Equipment List provided by the Client.

Fleet Mix - Operations Run Only.

## Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	1.00
tblFleetMix	HHD	0.06	0.16
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.61
tblFleetMix	LHD2	5.4600e-003	0.00
tblFleetMix	MCY	6.1170e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0820e-003	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	OBUS	1.3370e-003	0.00
tblFleetMix	SBUS	8.1700e-004	0.00
tblFleetMix	UBUS	1.6570e-003	0.00
tblLandUse	LotAcreage	97.95	52.19
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperHorsePower	89.00	200.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.20	0.39
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	88.70
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	2.65
tblVehicleTrips	SU_TR	1.68	2.65
tblVehicleTrips	WD_TR	1.68	2.65

**2.0 Emissions Summary**

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## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

## 2.1 Overall Construction

## Unmitigated Construction

## **Mitigated Construction**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational****Unmitigated 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	2.2827	5.6000e-004	0.0609	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1177	0.1177	3.2000e-004	0.0000	0.1256	
Energy	5.2100e-003	0.0474	0.0398	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003	0.0000	409.7404	409.7404	0.0158	4.0100e-003	411.3283	
Mobile	4.4242	111.8792	46.0249	0.3834	17.7095	1.0002	18.7097	5.0604	0.9561	6.0165	0.0000	36,084.63 91	36,084.63 91	0.7797	0.0000	36,104.13 12	
Offroad	0.2941	3.2553	1.4479	4.9100e-003		0.1264	0.1264		0.1163	0.1163	0.0000	431.2184	431.2184	0.1395	0.0000	434.7051	
Waste						0.0000	0.0000		0.0000	0.0000	90.8811	0.0000	90.8811	5.3709	0.0000	225.1540	
Water						0.0000	0.0000		0.0000	0.0000	34.9430	456.9540	491.8970	3.6079	0.0887	608.5099	
<b>Total</b>	<b>7.0062</b>	<b>115.1825</b>	<b>47.5735</b>	<b>0.3886</b>	<b>17.7095</b>	<b>1.1304</b>	<b>18.8399</b>	<b>5.0604</b>	<b>1.0762</b>	<b>6.1366</b>	<b>125.8241</b>	<b>37,382.66 97</b>	<b>37,508.49 38</b>	<b>9.9140</b>	<b>0.0927</b>	<b>37,783.95 41</b>	

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

**2.2 Overall Operational****Mitigated 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	2.2827	5.6000e-004	0.0609	0.0000		2.2000e-004	2.2000e-004	2.2000e-004	2.2000e-004	0.0000	0.1177	0.1177	3.2000e-004	0.0000	0.1256		
Energy	5.0600e-003	0.0460	0.0386	2.8000e-004		3.5000e-003	3.5000e-003	3.5000e-003	3.5000e-003	0.0000	406.5309	406.5309	0.0157	3.9600e-003	408.1037		
Mobile	4.4242	111.8792	46.0249	0.3834	17.7095	1.0002	18.7097	5.0604	0.9561	6.0165	0.0000	36,084.6391	36,084.6391	0.7797	0.0000	36,104.1312	
Offroad	0.2941	3.2553	1.4479	4.9100e-003		0.1264	0.1264		0.1163	0.1163	0.0000	431.2184	431.2184	0.1395	0.0000	434.7051	
Waste						0.0000	0.0000		0.0000	0.0000	90.8811	0.0000	90.8811	5.3709	0.0000	225.1540	
Water						0.0000	0.0000		0.0000	0.0000	34.9430	456.9540	491.8970	3.6079	0.0887	608.5099	
<b>Total</b>	<b>7.0060</b>	<b>115.1811</b>	<b>47.5723</b>	<b>0.3886</b>	<b>17.7095</b>	<b>1.1303</b>	<b>18.8398</b>	<b>5.0604</b>	<b>1.0761</b>	<b>6.1365</b>	<b>125.8241</b>	<b>37,379.4603</b>	<b>37,505.2843</b>	<b>9.9139</b>	<b>0.0926</b>	<b>37,780.7295</b>	

	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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.05	0.01

**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	9/14/2018	9/14/2018	5	1	

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 0****Acres of Paving: 52.19****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

**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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

## **3.2 Demolition - 2018**

## **Unmitigated Construction On-Site**

## Unmitigated Construction Off-Site

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

**3.2 Demolition - 2018****Mitigated 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	0.0000	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	
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>								

**Mitigated 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	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	
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>								

**4.0 Operational Detail - Mobile**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

**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					
Mitigated	4.4242	111.8792	46.0249	0.3834	17.7095	1.0002	18.7097	5.0604	0.9561	6.0165	0.0000	36,084.63 91	36,084.63 91	0.7797	0.0000	36,104.13 12
Unmitigated	4.4242	111.8792	46.0249	0.3834	17.7095	1.0002	18.7097	5.0604	0.9561	6.0165	0.0000	36,084.63 91	36,084.63 91	0.7797	0.0000	36,104.13 12

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,262.17	1,262.17	1,262.17	40,751,382	40,751,382
Total	1,262.17	1,262.17	1,262.17	40,751,382	40,751,382

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	88.70	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.610000	0.000000	0.230000	0.160000	0.000000	0.000000	0.000000	0.000000	0.000000

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

	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 Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	356.4601	356.4601	0.0147	3.0400e-003	357.7354
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	358.1446	358.1446	0.0148	3.0600e-003	359.4259
NaturalGas Mitigated	5.0600e-003	0.0460	0.0386	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.0708	50.0708	9.6000e-004	9.2000e-004	50.3683
NaturalGas Unmitigated	5.2100e-003	0.0474	0.0398	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003	0.0000	51.5958	51.5958	9.9000e-004	9.5000e-004	51.9024

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	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					
Other Asphalt Surfaces	0	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
Unrefrigerated Warehouse-No Rail	966869	5.2100e-003	0.0474	0.0398	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003	0.0000	51.5958	51.5958	9.9000e-004	9.5000e-004	51.9024
<b>Total</b>		<b>5.2100e-003</b>	<b>0.0474</b>	<b>0.0398</b>	<b>2.8000e-004</b>		<b>3.6000e-003</b>	<b>3.6000e-003</b>		<b>3.6000e-003</b>	<b>3.6000e-003</b>	<b>0.0000</b>	<b>51.5958</b>	<b>51.5958</b>	<b>9.9000e-004</b>	<b>9.5000e-004</b>	<b>51.9024</b>

**Mitigated**

	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					
Other Asphalt Surfaces	0	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
Unrefrigerated Warehouse-No Rail	938291	5.0600e-003	0.0460	0.0386	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.0708	50.0708	9.6000e-004	9.2000e-004	50.3683
<b>Total</b>		<b>5.0600e-003</b>	<b>0.0460</b>	<b>0.0386</b>	<b>2.8000e-004</b>		<b>3.5000e-003</b>	<b>3.5000e-003</b>		<b>3.5000e-003</b>	<b>3.5000e-003</b>	<b>0.0000</b>	<b>50.0708</b>	<b>50.0708</b>	<b>9.6000e-004</b>	<b>9.2000e-004</b>	<b>50.3683</b>

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.12404e +006	358.1446	0.0148	3.0600e-003	359.4259
<b>Total</b>		<b>358.1446</b>	<b>0.0148</b>	<b>3.0600e-003</b>	<b>359.4259</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.11876e +006	356.4601	0.0147	3.0400e-003	357.7354
<b>Total</b>		<b>356.4601</b>	<b>0.0147</b>	<b>3.0400e-003</b>	<b>357.7354</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

	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					
Mitigated	2.2827	5.6000e-004	0.0609	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1177	0.1177	3.2000e-004	0.0000	0.1256	
Unmitigated	2.2827	5.6000e-004	0.0609	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1177	0.1177	3.2000e-004	0.0000	0.1256	

**6.2 Area by SubCategory**Unmitigated

	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	0.2801					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	1.9969					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	5.7300e-003	5.6000e-004	0.0609	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1177	0.1177	3.2000e-004	0.0000	0.1256	
<b>Total</b>	<b>2.2827</b>	<b>5.6000e-004</b>	<b>0.0609</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.1177</b>	<b>0.1177</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.1256</b>	

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

**6.2 Area by SubCategory****Mitigated**

	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	0.2801						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9969						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.7300e-003	5.6000e-004	0.0609	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	0.1177	0.1177	3.2000e-004	0.0000	0.1256
<b>Total</b>	<b>2.2827</b>	<b>5.6000e-004</b>	<b>0.0609</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.1177</b>	<b>0.1177</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.1256</b>

**7.0 Water Detail****7.1 Mitigation Measures Water**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	491.8970	3.6079	0.0887	608.5099
Unmitigated	491.8970	3.6079	0.0887	608.5099

**7.2 Water by Land Use****Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	110.142 / 0	491.8970	3.6079	0.0887	608.5099
<b>Total</b>		<b>491.8970</b>	<b>3.6079</b>	<b>0.0887</b>	<b>608.5099</b>

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

**7.2 Water by Land Use****Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	110.142 / 0	491.8970	3.6079	0.0887	608.5099
<b>Total</b>		<b>491.8970</b>	<b>3.6079</b>	<b>0.0887</b>	<b>608.5099</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	90.8811	5.3709	0.0000	225.1540
Unmitigated	90.8811	5.3709	0.0000	225.1540

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	447.71	90.8811	5.3709	0.0000	225.1540
<b>Total</b>		<b>90.8811</b>	<b>5.3709</b>	<b>0.0000</b>	<b>225.1540</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	447.71	90.8811	5.3709	0.0000	225.1540
<b>Total</b>		<b>90.8811</b>	<b>5.3709</b>	<b>0.0000</b>	<b>225.1540</b>

**9.0 Operational Offroad**

## Chino Parcel Delivery (Operations - Trucks) - San Bernardino-South Coast County, Annual

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	4	8.00	365	200	0.39	Diesel

UnMitigated/Mitigated

	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
Equipment Type	tons/yr										MT/yr					
Forklifts	0.2941	3.2553	1.4479	4.9100e-003		0.1264	0.1264		0.1163	0.1163	0.0000	431.2184	431.2184	0.1395	0.0000	434.7051
Total	0.2941	3.2553	1.4479	4.9100e-003		0.1264	0.1264		0.1163	0.1163	0.0000	431.2184	431.2184	0.1395	0.0000	434.7051

## 10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

**Chino Parcel Delivery (Off-Site Tractor Parking)**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
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**

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

## Project Characteristics -

## Land Use -

Construction Phase - Operations (mobile) Run Only.

Off-road Equipment - Operations (mobile) Run Only.

Trips and VMT - Operations (mobile) Run Only.

Vehicle Trips - Information provided by the Client.

Fleet Mix - HHD trucks only.

Consumer Products - Operations (mobile) Run Only.

Area Coating - Operations (mobile) Run Only.

Solid Waste - Operations (mobile) Run Only.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	0
tblAreaCoating	Area_EF_Nonresidential_Interior	100	0
tblAreaCoating	Area_EF_Parking	100	0
tblAreaCoating	Area_EF_Residential_Exterior	50	0
tblAreaCoating	Area_EF_Residential_Interior	50	0
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	0.00	1.00
tblConstructionPhase	PhaseEndDate	9/13/2018	9/14/2018
tblFleetMix	HHD	0.06	1.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.4600e-003	0.00
tblFleetMix	MCY	6.1170e-003	0.00

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0820e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3370e-003	0.00
tblFleetMix	SBUS	8.1700e-004	0.00
tblFleetMix	UBUS	1.6570e-003	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	LandfillCaptureGasFlare	94.00	0.00
tblSolidWaste	LandfillNoGasCapture	6.00	0.00
tblVehicleTrips	CW_TL	16.60	0.25
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	0.00	421.00
tblVehicleTrips	SU_TR	0.00	421.00
tblVehicleTrips	WD_TR	0.00	421.00

**2.0 Emissions Summary**

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## 2.1 Overall Construction

## Unmitigated Construction

## **Mitigated Construction**

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational****Unmitigated 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	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005	
Energy	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	
Mobile	0.1759	8.5471	0.9963	0.0119	0.0165	3.5200e-003	0.0200	4.5200e-003	3.3700e-003	7.8900e-003	0.0000	1,136.8122	1,136.8122	0.2140	0.0000	1,142.1615	
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>	<b>0.1759</b>	<b>8.5471</b>	<b>0.9963</b>	<b>0.0119</b>	<b>0.0165</b>	<b>3.5200e-003</b>	<b>0.0200</b>	<b>4.5200e-003</b>	<b>3.3700e-003</b>	<b>7.8900e-003</b>	<b>0.0000</b>	<b>1,136.8122</b>	<b>1,136.8122</b>	<b>0.2140</b>	<b>0.0000</b>	<b>1,142.1616</b>	

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

**2.2 Overall Operational****Mitigated 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	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005	
Energy	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	
Mobile	0.1759	8.5471	0.9963	0.0119	0.0165	3.5200e-003	0.0200	4.5200e-003	3.3700e-003	7.8900e-003	0.0000	1,136.8122	1,136.8122	0.2140	0.0000	1,142.1615	
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>	<b>0.1759</b>	<b>8.5471</b>	<b>0.9963</b>	<b>0.0119</b>	<b>0.0165</b>	<b>3.5200e-003</b>	<b>0.0200</b>	<b>4.5200e-003</b>	<b>3.3700e-003</b>	<b>7.8900e-003</b>	<b>0.0000</b>	<b>1,136.8122</b>	<b>1,136.8122</b>	<b>0.2140</b>	<b>0.0000</b>	<b>1,142.1616</b>	

	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
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	9/14/2018	9/14/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37

**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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## **Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual**

## **3.2 Demolition - 2018**

## **Unmitigated Construction On-Site**

## **Unmitigated Construction Off-Site**

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

**3.2 Demolition - 2018****Mitigated 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	0.0000	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	
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>								

**Mitigated 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	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	
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>								

**4.0 Operational Detail - Mobile**

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

**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					
Mitigated	0.1759	8.5471	0.9963	0.0119	0.0165	3.5200e-003	0.0200	4.5200e-003	3.3700e-003	7.8900e-003	0.0000	1,136.812	1,136.812	0.2140	0.0000	1,142.161	
Unmitigated	0.1759	8.5471	0.9963	0.0119	0.0165	3.5200e-003	0.0200	4.5200e-003	3.3700e-003	7.8900e-003	0.0000	1,136.812	1,136.812	0.2140	0.0000	1,142.161	

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
User Defined Industrial	421.00	421.00	421.00	38,311	38,311	38,311	38,311
Total	421.00	421.00	421.00	38,311	38,311	38,311	38,311

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	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
User Defined Industrial	0.25	8.40	6.90	100.00	0.00	0.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

## **Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual**

## 5.0 Energy Detail

## Historical Energy Use: N

### **5.1 Mitigation Measures Energy**

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

## 5.2 Energy by Land Use - NaturalGas

## Unmitigated

### **Mitigated**

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

	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					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005	
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005	

**6.2 Area by SubCategory****Unmitigated**

	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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005	
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

**6.2 Area by SubCategory****Mitigated**

	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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005	
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	

**7.0 Water Detail****7.1 Mitigation Measures Water**

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

**7.2 Water by Land Use****Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

**7.2 Water by Land Use****Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Chino Parcel Delivery (Off-Site Tractor Parking) - San Bernardino-South Coast County, Annual

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

**Chino Parcel Delivery (Ancillary Buildings)**  
**San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	26.53	1000sqft	0.61	26,529.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2020
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 -

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - As per information provided by the Client, the ancillary buildings will not generate additional traffic.

Energy Mitigation -

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	PhaseEndDate	9/27/2018	9/14/2018
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

**2.0 Emissions Summary**

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## 2.1 Overall Construction

## **Unmitigated Construction**

### **Mitigated Construction**

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

**2.2 Overall Operational****Unmitigated 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	0.1082	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	7.0000e-004	
Energy	2.9000e-004	2.6400e-003	2.2200e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	22.8222	22.8222	8.8000e-004	2.2000e-004	22.9107	
Mobile	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	
Waste						0.0000	0.0000		0.0000	0.0000	5.0626	0.0000	5.0626	0.2992	0.0000	12.5424	
Water						0.0000	0.0000		0.0000	0.0000	1.9464	25.4530	27.3993	0.2010	4.9400e-003	33.8948	
<b>Total</b>	<b>0.1085</b>	<b>2.6400e-003</b>	<b>2.5600e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>7.0090</b>	<b>48.2759</b>	<b>55.2848</b>	<b>0.5010</b>	<b>5.1600e-003</b>	<b>69.3486</b>	

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

**2.2 Overall Operational****Mitigated 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	0.1082	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	7.0000e-004	
Energy	2.8000e-004	2.5600e-003	2.1500e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	22.6435	22.6435	8.7000e-004	2.2000e-004	22.7311	
Mobile	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	
Waste						0.0000	0.0000		0.0000	0.0000	5.0626	0.0000	5.0626	0.2992	0.0000	12.5424	
Water						0.0000	0.0000		0.0000	0.0000	1.9464	25.4530	27.3993	0.2010	4.9400e-003	33.8948	
<b>Total</b>	<b>0.1085</b>	<b>2.5600e-003</b>	<b>2.4900e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>7.0090</b>	<b>48.0971</b>	<b>55.1061</b>	<b>0.5010</b>	<b>5.1600e-003</b>	<b>69.1690</b>	

	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
Percent Reduction	0.01	3.03	2.73	0.00	0.00	5.00	5.00	0.00	5.00	5.00	0.00	0.37	0.32	0.00	0.00	0.26

**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	9/14/2018	9/14/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	6.00	97	0.37

**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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## **Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual**

### **3.2 Demolition - 2018**

## **Unmitigated Construction On-Site**

## **Unmitigated Construction Off-Site**

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

**3.2 Demolition - 2018****Mitigated 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	0.0000	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	
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>								

**Mitigated 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	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	
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>								

**4.0 Operational Detail - Mobile**

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

**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					
Mitigated	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
Unmitigated	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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT		Annual VMT	
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00				
Total	0.00	0.00	0.00				

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	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
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.546179	0.037976	0.179086	0.122965	0.018430	0.005460	0.017497	0.061396	0.001337	0.001657	0.006117	0.000817	0.001082

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

## 5.0 Energy Detail

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Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

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	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 Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	19.8546	19.8546	8.2000e-004	1.7000e-004	19.9256
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	19.9484	19.9484	8.2000e-004	1.7000e-004	20.0198
NaturalGas Mitigated	2.8000e-004	2.5600e-003	2.1500e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7889	2.7889	5.0000e-005	5.0000e-005	2.8055
NaturalGas Unmitigated	2.9000e-004	2.6400e-003	2.2200e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8739	2.8739	6.0000e-005	5.0000e-005	2.8909

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	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					
Unrefrigerated Warehouse-No Rail	53853.9	2.9000e-004	2.6400e-003	2.2200e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8739	2.8739	6.0000e-005	5.0000e-005	2.8909
<b>Total</b>		<b>2.9000e-004</b>	<b>2.6400e-003</b>	<b>2.2200e-003</b>	<b>2.0000e-005</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.8739</b>	<b>2.8739</b>	<b>6.0000e-005</b>	<b>5.0000e-005</b>	<b>2.8909</b>

**Mitigated**

	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					
Unrefrigerated Warehouse-No Rail	52262.1	2.8000e-004	2.5600e-003	2.1500e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7889	2.7889	5.0000e-005	5.0000e-005	2.8055
<b>Total</b>		<b>2.8000e-004</b>	<b>2.5600e-003</b>	<b>2.1500e-003</b>	<b>2.0000e-005</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.7889</b>	<b>2.7889</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>2.8055</b>

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	62608.4	19.9484	8.2000e-004	1.7000e-004	20.0198
<b>Total</b>		<b>19.9484</b>	<b>8.2000e-004</b>	<b>1.7000e-004</b>	<b>20.0198</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unrefrigerated Warehouse-No Rail	62314	19.8546	8.2000e-004	1.7000e-004	19.9256
<b>Total</b>		<b>19.8546</b>	<b>8.2000e-004</b>	<b>1.7000e-004</b>	<b>19.9256</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

	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					
Mitigated	0.1082	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	7.0000e-004	
Unmitigated	0.1082	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	7.0000e-004	

**6.2 Area by SubCategory****Unmitigated**

	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	0.0123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.0959					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	3.0000e-005	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	7.0000e-004	
<b>Total</b>	<b>0.1082</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.0000e-004</b>	

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

**6.2 Area by SubCategory****Mitigated**

	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	0.0123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0959					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.6000e-004	6.6000e-004	0.0000	0.0000	7.0000e-004
<b>Total</b>	<b>0.1082</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.0000e-004</b>

**7.0 Water Detail****7.1 Mitigation Measures Water**

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	27.3993	0.2010	4.9400e-003	33.8948
Unmitigated	27.3993	0.2010	4.9400e-003	33.8948

**7.2 Water by Land Use****Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	6.13506 / 0	27.3993	0.2010	4.9400e-003	33.8948
<b>Total</b>		<b>27.3993</b>	<b>0.2010</b>	<b>4.9400e-003</b>	<b>33.8948</b>

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

**7.2 Water by Land Use****Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unrefrigerated Warehouse-No Rail	6.13506 / 0	27.3993	0.2010	4.9400e- 003	33.8948
<b>Total</b>		<b>27.3993</b>	<b>0.2010</b>	<b>4.9400e- 003</b>	<b>33.8948</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.0626	0.2992	0.0000	12.5424
Unmitigated	5.0626	0.2992	0.0000	12.5424

## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	24.94	5.0626	0.2992	0.0000	12.5424
<b>Total</b>		<b>5.0626</b>	<b>0.2992</b>	<b>0.0000</b>	<b>12.5424</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unrefrigerated Warehouse-No Rail	24.94	5.0626	0.2992	0.0000	12.5424
<b>Total</b>		<b>5.0626</b>	<b>0.2992</b>	<b>0.0000</b>	<b>12.5424</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Chino Parcel Delivery (Ancillary Buildings) - San Bernardino-South Coast County, Annual

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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**APPENDIX 3.2:**  
**EMFAC 2014 MODEL OUTPUTS**

## EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: Air District

Region: South Coast AQMD

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	Fuel_Consumption	Fuel Consumption	Total Fuel Consumption	VMT	Total VMT	Miles per Gallon	VehClass
SCAQMD	2020	HHDT	Aggregated	Aggregated	GAS	802.1440496	22.12472978	22124.72978	2285504.664	104174.0551	13369344.05	5.85	HHD
SCAQMD	2020	HHDT	Aggregated	Aggregated	DSL	94066.79161	2263.379935	2263379.935			13265170		
SCAQMD	2020	LDA	Aggregated	Aggregated	GAS	6241441.311	7791.379047	7791379.047	7849819.577	215630250.8	224300103.8	28.57	LDA
SCAQMD	2020	LDA	Aggregated	Aggregated	DSL	58578.66528	58.44052993	58440.52993			2170199.073		
SCAQMD	2020	LDA	Aggregated	Aggregated	ELEC	139480.2104	0	0			6499653.924		
SCAQMD	2020	LDT1	Aggregated	Aggregated	GAS	529468.9231	767.6565063	767656.5063	768313.2779	17839921.58	17869646.83	23.26	LDT1
SCAQMD	2020	LDT1	Aggregated	Aggregated	DSL	653.8523923	0.656771586	656.7715859			17424.66748		
SCAQMD	2020	LDT1	Aggregated	Aggregated	ELEC	394.8926991	0	0			12300.5894		
SCAQMD	2020	LDT2	Aggregated	Aggregated	GAS	2196840.435	3942.87661	3942876.61	3948206.775	81691950.79	81842773.79	20.73	LDT2
SCAQMD	2020	LDT2	Aggregated	Aggregated	DSL	3707.582469	5.330165365	5330.165365			150823.0049		
SCAQMD	2020	LHDT1	Aggregated	Aggregated	GAS	122811.721	324.3272067	324327.2067	487711.1787	3538562.329	6867749.007	14.08	LHDT1
SCAQMD	2020	LHDT1	Aggregated	Aggregated	DSL	93218.10849	163.383972	163383.972			3329186.678		
SCAQMD	2020	LHDT2	Aggregated	Aggregated	GAS	25139.08857	85.31303659	85313.03659	167294.3502	867472.8869	2400097.869	14.35	LHDT2
SCAQMD	2020	LHDT2	Aggregated	Aggregated	DSL	39016.92297	81.98131358	81981.31358			1532624.982		
SCAQMD	2020	MCY	Aggregated	Aggregated	GAS	289961.5795	55.31831514	55318.31514	55318.31514	1955845.416	1955845.416	35.36	MCY
SCAQMD	2020	MDV	Aggregated	Aggregated	GAS	1480427.171	3206.973029	3206973.029	3247601.48	49182321.35	50069698.89	15.42	MDV
SCAQMD	2020	MDV	Aggregated	Aggregated	DSL	22607.57726	40.62845112	40628.45112			887377.5364		
SCAQMD	2020	MH	Aggregated	Aggregated	GAS	37922.10127	41.47456076	41474.56076	49697.59794	307217.3044	391503.7566	7.88	MH
SCAQMD	2020	MH	Aggregated	Aggregated	DSL	9968.340503	8.223037177	8223.037177			84286.45216		
SCAQMD	2020	MHDT	Aggregated	Aggregated	GAS	19760.80313	139.5109867	139510.9867	994155.0541	980184.6784	8449666.761	8.50	MHDT
SCAQMD	2020	MHDT	Aggregated	Aggregated	DSL	134726.0007	854.6440674	854644.0674			7469482.082		
SCAQMD	2020	OBUS	Aggregated	Aggregated	GAS	8436.227028	54.40171127	54401.71127	114975.5108	392438.6707	833849.8071	7.25	OBUS
SCAQMD	2020	OBUS	Aggregated	Aggregated	DSL	5358.43226	60.5737995	60573.7995			441411.1364		
SCAQMD	2020	SBUS	Aggregated	Aggregated	GAS	2258.46776	7.601539992	7601.539992	35629.80433	86380.44602	288716.49	8.10	SBUS
SCAQMD	2020	SBUS	Aggregated	Aggregated	DSL	5309.122191	28.02826434	28028.26434			202336.044		
SCAQMD	2020	UBUS	Aggregated	Aggregated	GAS	2327.880438	53.57098395	53570.98395	163867.7724	267944.8976	795898.8585	4.86	UBUS
SCAQMD	2020	UBUS	Aggregated	Aggregated	DSL	4588.150023	110.2967884	110296.7884			527953.961		