

APPENDIX C
Air Quality Data Sheets

Kimmelman Project - Existing Victoria Links Golf Course - South Coast AQMD Air District, Summer

**Kimmelman Project - Existing Victoria Links Golf Course
South Coast AQMD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Golf Course	87.00	Acre	87.00	3,789,720.00	0
Health Club	17.70	1000sqft	0.00	17,700.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2000
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year - 2000.

Land Use - Lot Acreage accounted for in the Golf Course land use.

Construction Phase - No construction. Estimating existing operational emissions only.

Off-road Equipment - No Construction.

Trips and VMT - No construction.

Grading - No Construction.

Vehicle Trips - Trip Generation rates are based on daily trips for the existing golf course from the project's traffic study.

Energy Use - CalEEMod Defaults

Water And Wastewater - Existing water use data provided by the projet applicant.

Off-road Equipment - No Construction use

Off-road Equipment - No Construction use

Off-road Equipment - No Construction activity

Off-road Equipment - No construction activity

Off-road Equipment - No construction activity

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	110.00	0.00
tblConstructionPhase	NumDays	1,550.00	0.00
tblConstructionPhase	NumDays	100.00	0.00
tblConstructionPhase	NumDays	155.00	0.00
tblConstructionPhase	NumDays	110.00	0.00
tblConstructionPhase	NumDays	60.00	0.00
tblConstructionPhase	PhaseEndDate	3/26/2027	10/23/2026
tblConstructionPhase	PhaseEndDate	5/22/2026	6/12/2020
tblConstructionPhase	PhaseEndDate	8/16/2019	3/31/2019
tblConstructionPhase	PhaseEndDate	6/12/2020	11/8/2019
tblConstructionPhase	PhaseEndDate	10/23/2026	5/22/2026
tblConstructionPhase	PhaseEndDate	11/8/2019	8/16/2019
tblLandUse	LotAcreage	0.41	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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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	lb/day										lb/day					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2026	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	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

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	lb/day										lb/day					
Area	0.6607	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268
Energy	9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755
Mobile	6.4678	15.7604	81.6542	0.1046	2.6229	0.4052	3.0281	0.7022	0.3844	1.0865		4,001.9009	4,001.9009	0.6600		4,018.4005

Total	7.1380	15.8466	81.7454	0.1052	2.6229	0.4118	3.0347	0.7022	0.3910	1.0931		4,105.1857	4,105.1857	0.6621	1.8900e-003	4,122.3029
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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	lb/day										lb/day					
Area	0.6607	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268
Energy	9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755
Mobile	6.4678	15.7604	81.6542	0.1046	2.6229	0.4052	3.0281	0.7022	0.3844	1.0865		4,001.9009	4,001.9009	0.6600		4,018.4005
Total	7.1380	15.8466	81.7454	0.1052	2.6229	0.4118	3.0347	0.7022	0.3910	1.0931		4,105.1857	4,105.1857	0.6621	1.8900e-003	4,122.3029

	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	4/1/2019	3/31/2019	5	0	
2	Site Preparation	Site Preparation	8/17/2019	8/16/2019	5	0	
3	Grading	Grading	11/9/2019	11/8/2019	5	0	
4	Building Construction	Building Construction	6/13/2020	6/12/2020	5	0	
5	Paving	Paving	5/23/2026	5/22/2026	5	0	
6	Architectural Coating	Architectural Coating	10/24/2026	10/23/2026	5	0	

Acres of Grading (Site Preparation Phase): 0

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					
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	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	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 Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
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Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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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	lb/day										lb/day					
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	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.6 Paving - 2026

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	lb/day										lb/day					
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	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	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 Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					
Archit. 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	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
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Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
	Mitigated	6.4678	15.7604	81.6542	0.1046	2.6229	0.4052	3.0281	0.7022	0.3844	1.0865		4,001.9009	4,001.9009	0.6600	
Unmitigated	6.4678	15.7604	81.6542	0.1046	2.6229	0.4052	3.0281	0.7022	0.3844	1.0865		4,001.9009	4,001.9009	0.6600		4,018.4005

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Golf Course	325.38	506.34	506.34	918,390	918,390
Health Club	0.00	0.00	0.00		
Total	325.38	506.34	506.34	918,390	918,390

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Golf Course	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Golf Course	0.563301	0.087805	0.177371	0.086750	0.024607	0.005004	0.019215	0.027860	0.001385	0.001867	0.001946	0.000664	0.002226
Health Club	0.563301	0.087805	0.177371	0.086750	0.024607	0.005004	0.019215	0.027860	0.001385	0.001867	0.001946	0.000664	0.002226

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	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	
	lb/day										lb/day						
NaturalGas Mitigated	9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003			103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755
NaturalGas Unmitigated	9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003			103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Golf Course	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
Health Club	877.726	9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755
Total		9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Golf Course	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
Health Club	0.877726	9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755
Total		9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755

6.0 Area Detail

6.1 Mitigation Measures Area

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

Mitigated	0.6607	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268
Unmitigated	0.6607	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268

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	lb/day										lb/day					
Architectural Coating	0.1124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5457					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6600e-003	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268
Total	0.6608	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268

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	lb/day										lb/day					
Architectural Coating	0.1124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5457					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6600e-003	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268
Total	0.6608	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Kimmelman Project - Existing Victoria Links Golf Course - South Coast AQMD Air District, Winter

**Kimmelman Project - Existing Victoria Links Golf Course
South Coast AQMD Air District, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Golf Course	87.00	Acre	87.00	3,789,720.00	0
Health Club	17.70	1000sqft	0.00	17,700.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2000
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year - 2000.

Land Use - Lot Acreage accounted for in the Golf Course land use.

Construction Phase - No construction. Estimating existing operational emissions only.

Off-road Equipment - No Construction.

Trips and VMT - No construction.

Grading - No Construction.

Vehicle Trips - Trip Generation rates are based on daily trips for the existing golf course from the project's traffic study.

Energy Use - CalEEMod Defaults

Water And Wastewater - Existing water use data provided by the projet applicant.

Off-road Equipment - No Construction use

Off-road Equipment - No Construction use

Off-road Equipment - No Construction activity

Off-road Equipment - No construction activity

Off-road Equipment - No construction activity

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	110.00	0.00
tblConstructionPhase	NumDays	1,550.00	0.00
tblConstructionPhase	NumDays	100.00	0.00
tblConstructionPhase	NumDays	155.00	0.00
tblConstructionPhase	NumDays	110.00	0.00
tblConstructionPhase	NumDays	60.00	0.00
tblConstructionPhase	PhaseEndDate	3/26/2027	10/23/2026
tblConstructionPhase	PhaseEndDate	5/22/2026	6/12/2020
tblConstructionPhase	PhaseEndDate	8/16/2019	3/31/2019
tblConstructionPhase	PhaseEndDate	6/12/2020	11/8/2019
tblConstructionPhase	PhaseEndDate	10/23/2026	5/22/2026
tblConstructionPhase	PhaseEndDate	11/8/2019	8/16/2019
tblLandUse	LotAcreage	0.41	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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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	lb/day										lb/day					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2026	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	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
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

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	lb/day										lb/day					
Area	0.6607	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268
Energy	9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755
Mobile	6.5664	16.6323	79.2976	0.1009	2.6229	0.4244	3.0473	0.7022	0.4028	1.1049		3,810.1554	3,810.1554	0.6516		3,826.4464

Total	7.2366	16.7185	79.3889	0.1014	2.6229	0.4311	3.0540	0.7022	0.4094	1.1115		3,913.4402	3,913.4402	0.6538	1.8900e-003	3,930.3487
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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	lb/day										lb/day					
Area	0.6607	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268
Energy	9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755
Mobile	6.5664	16.6323	79.2976	0.1009	2.6229	0.4244	3.0473	0.7022	0.4028	1.1049		3,810.1554	3,810.1554	0.6516		3,826.4464
Total	7.2366	16.7185	79.3889	0.1014	2.6229	0.4311	3.0540	0.7022	0.4094	1.1115		3,913.4402	3,913.4402	0.6538	1.8900e-003	3,930.3487

	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	4/1/2019	3/31/2019	5	0	
2	Site Preparation	Site Preparation	8/17/2019	8/16/2019	5	0	
3	Grading	Grading	11/9/2019	11/8/2019	5	0	
4	Building Construction	Building Construction	6/13/2020	6/12/2020	5	0	
5	Paving	Paving	5/23/2026	5/22/2026	5	0	
6	Architectural Coating	Architectural Coating	10/24/2026	10/23/2026	5	0	

Acres of Grading (Site Preparation Phase): 0

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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					
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	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	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 Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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
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Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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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	lb/day										lb/day					
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	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.6 Paving - 2026

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	lb/day										lb/day					
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	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	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 Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					
Archit. 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	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	lb/day										lb/day					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	lb/day					
	lb/day										lb/day					
Mitigated	6.5664	16.6323	79.2976	0.1009	2.6229	0.4244	3.0473	0.7022	0.4028	1.1049						
Unmitigated	6.5664	16.6323	79.2976	0.1009	2.6229	0.4244	3.0473	0.7022	0.4028	1.1049	3,810.1554	4	3,810.1554	0.6516		3,826.4464

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Golf Course	325.38	506.34	506.34	918,390	918,390
Health Club	0.00	0.00	0.00		
Total	325.38	506.34	506.34	918,390	918,390

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Golf Course	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Golf Course	0.563301	0.087805	0.177371	0.086750	0.024607	0.005004	0.019215	0.027860	0.001385	0.001867	0.001946	0.000664	0.002226
Health Club	0.563301	0.087805	0.177371	0.086750	0.024607	0.005004	0.019215	0.027860	0.001385	0.001867	0.001946	0.000664	0.002226

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	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	
	lb/day										lb/day						
NaturalGas Mitigated	9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003			103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755
NaturalGas Unmitigated	9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003			103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755

5.2 Energy by Land Use - NaturalGas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Golf Course	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
Health Club	877.726	9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755
Total		9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Golf Course	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
Health Club	0.877726	9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755
Total		9.4700e-003	0.0861	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2619	103.2619	1.9800e-003	1.8900e-003	103.8755

6.0 Area Detail

6.1 Mitigation Measures Area

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

Mitigated	0.6607	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268
Unmitigated	0.6607	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268

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	lb/day										lb/day					
Architectural Coating	0.1124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5457					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6600e-003	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268
Total	0.6608	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268

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	lb/day										lb/day					
Architectural Coating	0.1124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5457					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.6600e-003	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268
Total	0.6608	1.4000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0229	0.0229	1.6000e-004		0.0268

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Kimmelman Foundation Center - South Coast AQMD Air District, Summer

Kimmelman Foundation Center
South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	23.00	1000sqft	0.53	23,000.00	0
General Office Building	10.00	1000sqft	0.23	10,000.00	0
General Office Building	3.00	1000sqft	0.07	3,000.00	0
General Office Building	13.00	1000sqft	0.30	13,000.00	0
General Office Building	5.00	1000sqft	0.11	5,000.00	0
Library	25.00	1000sqft	0.57	25,000.00	0
Other Asphalt Surfaces	29.00	Acre	29.00	1,263,240.00	0
Other Non-Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0
Parking Lot	1,193.00	Space	10.74	477,200.00	0
City Park	58.00	Acre	58.00	2,526,480.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	588.29	CH4 Intensity (lb/MW hr)	0.024	N2O Intensity (lb/MW hr)	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2021. CO2 and CH4. Intensity factors based on SCE RPS data for 2021.

Land Use - Proposed land use data was provided by the project applicant.

Construction Phase - Construction phasing was provided by the project applicant.

Off-road Equipment - Construction off-road equipment information was provided by the project applicant.

Off-road Equipment - Construction off-road equipment information was provided by the project applicant.

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Off-road Equipment - Construction off-road equipment information was provided by the project applicant.

Trips and VMT - Construction trip data provided by the project applicant.

Grading - CalEEMod defaults.

Vehicle Trips - Weekday and weekend trip rates are based on the trip generation values identified in the proposed project's traffic report.

Area Coating - Parking lot area provided by the project applicant.

Energy Use - Additional energy use from outdoor lighting was captured under the parking lot land use.

Water And Wastewater - Water use based in information from the project applicant.

Construction Off-road Equipment Mitigation - Use of Tier 4 final engines in construction equipment over 75 horsepower and compliance with SCAQMD Rule 402.

Water Mitigation - NA

Waste Mitigation - In compliance with AB 341

Fleet Mix - CalEEMod defaults.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	107,040.00	104,426.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	220.00	44.00
tblConstructionPhase	NumDays	3,100.00	132.00
tblConstructionPhase	NumDays	310.00	65.00
tblConstructionPhase	NumDays	310.00	45.00

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.024
tblProjectCharacteristics	CO2IntensityFactor	702.44	588.29
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblTripsAndVMT	HaulingTripNumber	0.00	10,500.00
tblTripsAndVMT	HaulingTripNumber	0.00	132.00
tblTripsAndVMT	HaulingTripNumber	0.00	10,500.00
tblTripsAndVMT	HaulingTripNumber	0.00	621.00
tblTripsAndVMT	HaulingTripNumber	0.00	460.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	44.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	719.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	1,838.00	50.00
tblTripsAndVMT	WorkerTripNumber	20.00	30.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	368.00	30.00
tblVehicleTrips	CC_TTP	0.00	43.00
tblVehicleTrips	CC_TTP	0.00	43.00
tblVehicleTrips	CNW_TTP	0.00	5.00
tblVehicleTrips	CNW_TTP	0.00	5.00
tblVehicleTrips	CW_TTP	0.00	52.00
tblVehicleTrips	CW_TTP	0.00	52.00

tblVehicleTrips	DV_TP	0.00	19.00
tblVehicleTrips	DV_TP	0.00	19.00
tblVehicleTrips	PB_TP	0.00	4.00
tblVehicleTrips	PB_TP	0.00	4.00
tblVehicleTrips	PR_TP	0.00	77.00
tblVehicleTrips	PR_TP	0.00	77.00
tblVehicleTrips	ST_TR	22.75	74.14
tblVehicleTrips	ST_TR	2.46	0.22
tblVehicleTrips	ST_TR	46.55	13.84
tblVehicleTrips	ST_TR	0.00	59.48
tblVehicleTrips	ST_TR	0.00	724.00
tblVehicleTrips	SU_TR	16.74	74.14
tblVehicleTrips	SU_TR	1.05	0.22
tblVehicleTrips	SU_TR	25.49	13.84
tblVehicleTrips	SU_TR	0.00	59.48
tblVehicleTrips	SU_TR	0.00	724.00
tblVehicleTrips	WD_TR	1.89	12.29
tblVehicleTrips	WD_TR	11.03	1.02
tblVehicleTrips	WD_TR	56.24	43.80
tblVehicleTrips	WD_TR	0.00	64.83
tblVehicleTrips	WD_TR	0.00	396.00
tblWater	IndoorWaterUseRate	9,597,622.39	9,500,000.00
tblWater	IndoorWaterUseRate	782,222.71	500,000.00
tblWater	OutdoorWaterUseRate	69,105,918.28	11,516,480.00
tblWater	OutdoorWaterUseRate	0.00	1,084,050.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2019	17.7903	238.1442	121.8000	0.4321	33.6767	8.0109	41.6877	15.4993	7.4094	22.9087	0.0000	45,049.3772	45,049.3772	6.6491	0.0000	45,215.6037
2020	30.7718	56.0792	53.5272	0.0951	1.2636	2.8627	4.1263	0.3356	2.6637	2.9993	0.0000	9,232.8486	9,232.8486	2.2299	0.0000	9,288.5963
Maximum	30.7718	238.1442	121.8000	0.4321	33.6767	8.0109	41.6877	15.4993	7.4094	22.9087	0.0000	45,049.3772	45,049.3772	6.6491	0.0000	45,215.6037

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	lb/day										lb/day					
2019	6.0949	110.4768	121.8138	0.4321	17.6890	0.6261	18.3152	7.2826	0.6095	7.8921	0.0000	45,049.3772	45,049.3772	6.6491	0.0000	45,215.6037
2020	29.0680	13.1229	54.2943	0.0951	1.2636	0.1395	1.4031	0.3356	0.1385	0.4741	0.0000	9,232.8486	9,232.8486	2.2299	0.0000	9,288.5963
Maximum	29.0680	110.4768	121.8138	0.4321	17.6890	0.6261	18.3152	7.2826	0.6095	7.8921	0.0000	45,049.3772	45,049.3772	6.6491	0.0000	45,215.6037

	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	27.59	57.99	-0.45	0.00	45.76	92.96	56.96	51.89	92.57	67.71	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

1	Demo/Site prep/C&G	Site Preparation	8/1/2019	11/1/2019	5	67
2	Trenching	Trenching	8/1/2019	11/1/2019	5	67
3	Grading	Grading	9/1/2019	11/29/2019	5	65
4	Building Construction	Building Construction	10/1/2019	4/1/2020	5	132
5	Sport Surfaces and Paving	Paving	11/1/2019	6/2/2020	5	153
6	Pile Driving	Grading	12/1/2019	1/31/2020	5	45
7	Dynamic Compaction	Grading	12/1/2019	1/31/2020	5	45
8	Architectural Coating	Architectural Coating	5/1/2020	7/1/2020	5	44

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 130

Acres of Paving: 40.74

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 118,500; Non-Residential Outdoor: 39,500; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demo/Site prep/C&G	Rubber Tired Dozers	2	8.00	247	0.40
Demo/Site prep/C&G	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Trenching	Excavators	2	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Trenchers	2	8.00	78	0.50
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Aerial Lifts	2	8.00	63	0.31
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74

Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Sport Surfaces and Paving	Pavers	2	8.00	130	0.42
Sport Surfaces and Paving	Paving Equipment	2	8.00	132	0.36
Sport Surfaces and Paving	Rollers	2	8.00	80	0.38
Sport Surfaces and Paving	Sweepers/Scrubbers	2	8.00	64	0.46
Pile Driving	Cranes	1	8.00	429	0.29
Pile Driving	Excavators	0	0.00	158	0.38
Pile Driving	Graders	0	0.00	187	0.41
Pile Driving	Rubber Tired Dozers	0	0.00	247	0.40
Pile Driving	Scrapers	0	0.00	367	0.48
Pile Driving	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Pile Driving	Welders	1	8.00	46	0.45
Dynamic Compaction	Cranes	1	8.00	430	0.29
Dynamic Compaction	Excavators	0	0.00	158	0.38
Dynamic Compaction	Graders	0	0.00	187	0.41
Dynamic Compaction	Rubber Tired Dozers	0	0.00	247	0.40
Dynamic Compaction	Scrapers	0	0.00	367	0.48
Dynamic Compaction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demo/Site prep/C&G	5	20.00	0.00	10,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	6	20.00	4.00	132.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	10,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	50.00	6.00	621.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Sport Surfaces and Paving	8	30.00	0.00	460.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pile Driving	2	6.00	0.00	10.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Dynamic Compaction	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	2.00	44.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demo/Site prep/C&G - 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	lb/day										lb/day					
Fugitive Dust					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	2.9676	31.1609	15.4762	0.0264		1.6456	1.6456		1.5139	1.5139		2,613.4826	2,613.4826	0.8269		2,634.1545
Total	2.9676	31.1609	15.4762	0.0264	12.0442	1.6456	13.6898	6.6205	1.5139	8.1344		2,613.4826	2,613.4826	0.8269		2,634.1545

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	lb/day										lb/day					
Hauling	1.2877	45.6239	8.7324	0.1229	2.7386	0.1693	2.9078	0.7505	0.1619	0.9124		13,271.0157	13,271.0157	0.9053		13,293.6485
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Worker	0.0980	0.0682	0.8987	2.3700e-003	0.2236	1.7400e-003	0.2253	0.0593	1.6000e-003	0.0609		236.1978	236.1978	7.3900e-003		236.3825
Total	1.3857	45.6920	9.6311	0.1253	2.9621	0.1710	3.1331	0.8098	0.1635	0.9733		13,507.2135	13,507.2135	0.9127		13,530.0310

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	lb/day										lb/day						
Fugitive Dust					4.6972	0.0000	4.6972	2.5820	0.0000	2.5820			0.0000				0.0000
Off-Road	0.3230	1.3999	14.6934	0.0264		0.0431	0.0431		0.0431	0.0431	0.0000	2,613.4825	2,613.4825	0.8269			2,634.1545
Total	0.3230	1.3999	14.6934	0.0264	4.6972	0.0431	4.7403	2.5820	0.0431	2.6251	0.0000	2,613.4825	2,613.4825	0.8269			2,634.1545

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	lb/day										lb/day						
Hauling	1.2877	45.6239	8.7324	0.1229	2.7386	0.1693	2.9078	0.7505	0.1619	0.9124		13,271.0157	13,271.0157	0.9053			13,293.6485
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0980	0.0682	0.8987	2.3700e-003	0.2236	1.7400e-003	0.2253	0.0593	1.6000e-003	0.0609		236.1978	236.1978	7.3900e-003			236.3825
Total	1.3857	45.6920	9.6311	0.1253	2.9621	0.1710	3.1331	0.8098	0.1635	0.9733		13,507.2135	13,507.2135	0.9127			13,530.0310

3.3 Trenching - 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	lb/day										lb/day					
Off-Road	1.8557	17.8731	16.4100	0.0233		1.1631	1.1631		1.0700	1.0700		2,305.0420	2,305.0420	0.7293		2,323.2743
Total	1.8557	17.8731	16.4100	0.0233		1.1631	1.1631		1.0700	1.0700		2,305.0420	2,305.0420	0.7293		2,323.2743

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	lb/day										lb/day					
Hauling	0.0162	0.5736	0.1098	1.5500e-003	0.0344	2.1300e-003	0.0366	9.4300e-003	2.0400e-003	0.0115		166.8356	166.8356	0.0114		167.1202
Vendor	0.0154	0.4577	0.1106	1.0400e-003	0.0256	3.0300e-003	0.0286	7.3700e-003	2.9000e-003	0.0103		110.4879	110.4879	7.3100e-003		110.6707
Worker	0.0980	0.0682	0.8987	2.3700e-003	0.2236	1.7400e-003	0.2253	0.0593	1.6000e-003	0.0609		236.1978	236.1978	7.3900e-003		236.3825
Total	0.1296	1.0994	1.1191	4.9600e-003	0.2836	6.9000e-003	0.2905	0.0761	6.5400e-003	0.0826		513.5213	513.5213	0.0261		514.1733

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	lb/day										lb/day					

Off-Road	0.2856	1.2375	17.6102	0.0233		0.0381	0.0381		0.0381	0.0381	0.0000	2,305.0420	2,305.0420	0.7293		2,323.2743
Total	0.2856	1.2375	17.6102	0.0233		0.0381	0.0381		0.0381	0.0381	0.0000	2,305.0420	2,305.0420	0.7293		2,323.2743

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	lb/day										lb/day					
Hauling	0.0162	0.5736	0.1098	1.5500e-003	0.0344	2.1300e-003	0.0366	9.4300e-003	2.0400e-003	0.0115		166.8356	166.8356	0.0114		167.1202
Vendor	0.0154	0.4577	0.1106	1.0400e-003	0.0256	3.0300e-003	0.0286	7.3700e-003	2.9000e-003	0.0103		110.4879	110.4879	7.3100e-003		110.6707
Worker	0.0980	0.0682	0.8987	2.3700e-003	0.2236	1.7400e-003	0.2253	0.0593	1.6000e-003	0.0609		236.1978	236.1978	7.3900e-003		236.3825
Total	0.1296	1.0994	1.1191	4.9600e-003	0.2836	6.9000e-003	0.2905	0.0761	6.5400e-003	0.0826		513.5213	513.5213	0.0261		514.1733

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	lb/day										lb/day					
Fugitive Dust					14.1652	0.0000	14.1652	6.8495	0.0000	6.8495			0.0000			0.0000
Off-Road	4.8653	54.6513	29.2964	0.0536		2.5015	2.5015		2.3014	2.3014		5,305.5697	5,305.5697	1.6786		5,347.5353
Total	4.8653	54.6513	29.2964	0.0536	14.1652	2.5015	16.6667	6.8495	2.3014	9.1509		5,305.5697	5,305.5697	1.6786		5,347.5353

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	lb/day										lb/day						
Hauling	1.3274	47.0277	9.0011	0.1267	2.8228	0.1745	2.9973	0.7736	0.1669	0.9405		13,679.3546	13,679.3546	0.9332			13,702.6838
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0735	0.0511	0.6740	1.7800e-003	0.1677	1.3000e-003	0.1690	0.0445	1.2000e-003	0.0457		177.1484	177.1484	5.5400e-003			177.2869
Total	1.4008	47.0788	9.6751	0.1285	2.9905	0.1758	3.1663	0.8181	0.1681	0.9862		13,856.5030	13,856.5030	0.9387			13,879.9707

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	lb/day										lb/day						
Fugitive Dust					5.5244	0.0000	5.5244	2.6713	0.0000	2.6713			0.0000			0.0000	
Off-Road	0.6579	2.8509	26.0218	0.0536		0.0877	0.0877		0.0877	0.0877	0.0000	5,305.5697	5,305.5697	1.6786			5,347.5353
Total	0.6579	2.8509	26.0218	0.0536	5.5244	0.0877	5.6121	2.6713	0.0877	2.7590	0.0000	5,305.5697	5,305.5697	1.6786			5,347.5353

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
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Category	lb/day										lb/day			
Hauling	1.3274	47.0277	9.0011	0.1267	2.8228	0.1745	2.9973	0.7736	0.1669	0.9405	13,679.3546	13,679.3546	0.9332	13,702.6838
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0735	0.0511	0.6740	1.7800e-003	0.1677	1.3000e-003	0.1690	0.0445	1.2000e-003	0.0457	177.1484	177.1484	5.5400e-003	177.2869
Total	1.4008	47.0788	9.6751	0.1285	2.9905	0.1758	3.1663	0.8181	0.1681	0.9862	13,856.5030	13,856.5030	0.9387	13,879.9707

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	lb/day										lb/day					
Off-Road	2.0016	17.1844	17.3429	0.0252		1.1005	1.1005		1.0385	1.0385		2,424.2381	2,424.2381	0.5784		2,438.6979
Total	2.0016	17.1844	17.3429	0.0252		1.1005	1.1005		1.0385	1.0385		2,424.2381	2,424.2381	0.5784		2,438.6979

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	lb/day										lb/day					
Hauling	0.0387	1.3696	0.2621	3.6900e-003	0.1444	5.0800e-003	0.1495	0.0378	4.8600e-003	0.0427		398.3890	398.3890	0.0272		399.0684
Vendor	0.0231	0.6865	0.1660	1.5600e-003	0.0384	4.5500e-003	0.0430	0.0111	4.3500e-003	0.0154		165.7318	165.7318	0.0110		166.0060
Worker	0.2449	0.1704	2.2467	5.9300e-003	0.5589	4.3500e-003	0.5632	0.1482	4.0100e-003	0.1522		590.4945	590.4945	0.0185		590.9562

Total	0.3067	2.2266	2.6748	0.0112	0.7417	0.0140	0.7557	0.1971	0.0132	0.2103		1,154.6153	1,154.6153	0.0566		1,156.0306
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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	lb/day										lb/day					
Off-Road	0.3485	3.8535	17.7348	0.0252		0.0380	0.0380		0.0380	0.0380	0.0000	2,424.2381	2,424.2381	0.5784		2,438.6978
Total	0.3485	3.8535	17.7348	0.0252		0.0380	0.0380		0.0380	0.0380	0.0000	2,424.2381	2,424.2381	0.5784		2,438.6978

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	lb/day										lb/day					
Hauling	0.0387	1.3696	0.2621	3.6900e-003	0.1444	5.0800e-003	0.1495	0.0378	4.8600e-003	0.0427		398.3890	398.3890	0.0272		399.0684
Vendor	0.0231	0.6865	0.1660	1.5600e-003	0.0384	4.5500e-003	0.0430	0.0111	4.3500e-003	0.0154		165.7318	165.7318	0.0110		166.0060
Worker	0.2449	0.1704	2.2467	5.9300e-003	0.5589	4.3500e-003	0.5632	0.1482	4.0100e-003	0.1522		590.4945	590.4945	0.0185		590.9562
Total	0.3067	2.2266	2.6748	0.0112	0.7417	0.0140	0.7557	0.1971	0.0132	0.2103		1,154.6153	1,154.6153	0.0566		1,156.0306

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	lb/day										lb/day					
Off-Road	1.8023	15.7557	17.1861	0.0252		0.9512	0.9512		0.8978	0.8978		2,389.3618	2,389.3618	0.5699		2,403.6096
Total	1.8023	15.7557	17.1861	0.0252		0.9512	0.9512		0.8978	0.8978		2,389.3618	2,389.3618	0.5699		2,403.6096

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	lb/day										lb/day					
Hauling	0.0357	1.2803	0.2548	3.6500e-003	0.1444	4.1300e-003	0.1485	0.0378	3.9500e-003	0.0417		394.3958	394.3958	0.0265		395.0574
Vendor	0.0197	0.6296	0.1499	1.5400e-003	0.0384	3.1200e-003	0.0415	0.0111	2.9800e-003	0.0140		164.6691	164.6691	0.0103		164.9275
Worker	0.2262	0.1521	2.0441	5.7400e-003	0.5589	4.2400e-003	0.5631	0.1482	3.9000e-003	0.1521		572.2087	572.2087	0.0165		572.6200
Total	0.2817	2.0620	2.4488	0.0109	0.7417	0.0115	0.7532	0.1971	0.0108	0.2079		1,131.2736	1,131.2736	0.0533		1,132.6050

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	lb/day										lb/day					

Off-Road	0.3485	3.8535	17.7348	0.0252		0.0380	0.0380		0.0380	0.0380	0.0000	2,389.3618	2,389.3618	0.5699		2,403.6096
Total	0.3485	3.8535	17.7348	0.0252		0.0380	0.0380		0.0380	0.0380	0.0000	2,389.3618	2,389.3618	0.5699		2,403.6096

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	lb/day										lb/day					
Hauling	0.0357	1.2803	0.2548	3.6500e-003	0.1444	4.1300e-003	0.1485	0.0378	3.9500e-003	0.0417		394.3958	394.3958	0.0265		395.0574
Vendor	0.0197	0.6296	0.1499	1.5400e-003	0.0384	3.1200e-003	0.0415	0.0111	2.9800e-003	0.0140		164.6691	164.6691	0.0103		164.9275
Worker	0.2262	0.1521	2.0441	5.7400e-003	0.5589	4.2400e-003	0.5631	0.1482	3.9000e-003	0.1521		572.2087	572.2087	0.0165		572.6200
Total	0.2817	2.0620	2.4488	0.0109	0.7417	0.0115	0.7532	0.1971	0.0108	0.2079		1,131.2736	1,131.2736	0.0533		1,132.6050

3.6 Sport Surfaces and Paving - 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	lb/day										lb/day					
Off-Road	2.0252	20.2002	18.6588	0.0279		1.2267	1.2267		1.1286	1.1286		2,760.2965	2,760.2965	0.8733		2,782.1297
Paving	0.6805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.7057	20.2002	18.6588	0.0279		1.2267	1.2267		1.1286	1.1286		2,760.2965	2,760.2965	0.8733		2,782.1297

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	lb/day										lb/day					
Hauling	0.0247	0.8753	0.1675	2.3600e-003	0.1542	3.2500e-003	0.1575	0.0394	3.1100e-003	0.0425		254.5986	254.5986	0.0174		255.0328
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1469	0.1022	1.3480	3.5600e-003	0.3353	2.6100e-003	0.3379	0.0889	2.4000e-003	0.0913		354.2967	354.2967	0.0111		354.5737
Total	0.1716	0.9775	1.5155	5.9200e-003	0.4896	5.8600e-003	0.4954	0.1283	5.5100e-003	0.1338		608.8953	608.8953	0.0285		609.6066

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	lb/day										lb/day					
Off-Road	0.4051	4.0608	21.1380	0.0279		0.0457	0.0457		0.0457	0.0457	0.0000	2,760.2965	2,760.2965	0.8733		2,782.1297
Paving	0.6805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0856	4.0608	21.1380	0.0279		0.0457	0.0457		0.0457	0.0457	0.0000	2,760.2965	2,760.2965	0.8733		2,782.1297

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
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Category	lb/day										lb/day					
Hauling	0.0247	0.8753	0.1675	2.3600e-003	0.1542	3.2500e-003	0.1575	0.0394	3.1100e-003	0.0425		254.5986	254.5986	0.0174		255.0328
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1469	0.1022	1.3480	3.5600e-003	0.3353	2.6100e-003	0.3379	0.0889	2.4000e-003	0.0913		354.2967	354.2967	0.0111		354.5737
Total	0.1716	0.9775	1.5155	5.9200e-003	0.4896	5.8600e-003	0.4954	0.1283	5.5100e-003	0.1338		608.8953	608.8953	0.0285		609.6066

3.6 Sport Surfaces and 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	lb/day										lb/day					
Off-Road	1.8965	18.7201	18.6268	0.0279		1.1267	1.1267		1.0366	1.0366		2,700.0863	2,700.0863	0.8733		2,721.9178
Paving	0.6805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.5770	18.7201	18.6268	0.0279		1.1267	1.1267		1.0366	1.0366		2,700.0863	2,700.0863	0.8733		2,721.9178

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	lb/day										lb/day					
Hauling	0.0228	0.8182	0.1628	2.3300e-003	0.0681	2.6400e-003	0.0707	0.0182	2.5200e-003	0.0207		252.0467	252.0467	0.0169		252.4695
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1357	0.0912	1.2265	3.4500e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		343.3252	343.3252	9.8700e-003		343.5720

Total	0.1586	0.9095	1.3893	5.7800e-003	0.4034	5.1800e-003	0.4086	0.1071	4.8600e-003	0.1120		595.3719	595.3719	0.0268		596.0415
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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	lb/day										lb/day					
Off-Road	0.4051	4.0608	21.1380	0.0279		0.0457	0.0457		0.0457	0.0457	0.0000	2,700.0862	2,700.0862	0.8733		2,721.9178
Paving	0.6805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0856	4.0608	21.1380	0.0279		0.0457	0.0457		0.0457	0.0457	0.0000	2,700.0862	2,700.0862	0.8733		2,721.9178

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	lb/day										lb/day					
Hauling	0.0228	0.8182	0.1628	2.3300e-003	0.0681	2.6400e-003	0.0707	0.0182	2.5200e-003	0.0207		252.0467	252.0467	0.0169		252.4695
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1357	0.0912	1.2265	3.4500e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		343.3252	343.3252	9.8700e-003		343.5720
Total	0.1586	0.9095	1.3893	5.7800e-003	0.4034	5.1800e-003	0.4086	0.1071	4.8600e-003	0.1120		595.3719	595.3719	0.0268		596.0415

3.7 Pile Driving - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.1511	11.0518	8.3216	0.0133		0.4794	0.4794		0.4490	0.4490		1,267.5965	1,267.5965	0.3701		1,276.8488
Total	1.1511	11.0518	8.3216	0.0133	0.0000	0.4794	0.4794	0.0000	0.4490	0.4490		1,267.5965	1,267.5965	0.3701		1,276.8488

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	lb/day										lb/day					
Hauling	1.8300e-003	0.0647	0.0124	1.7000e-004	6.9500e-003	2.4000e-004	7.1900e-003	1.8200e-003	2.3000e-004	2.0500e-003		18.8182	18.8182	1.2800e-003		18.8503
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0294	0.0205	0.2696	7.1000e-004	0.0671	5.2000e-004	0.0676	0.0178	4.8000e-004	0.0183		70.8593	70.8593	2.2200e-003		70.9147
Total	0.0312	0.0851	0.2820	8.8000e-004	0.0740	7.6000e-004	0.0748	0.0196	7.1000e-004	0.0203		89.6775	89.6775	3.5000e-003		89.7650

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	lb/day										lb/day					

Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000			0.0000
Off-Road	0.1755	1.5745	6.3241	0.0133		0.0205	0.0205		0.0205	0.0205	0.0000	1,267.5965	1,267.5965	0.3701	1,276.8488
Total	0.1755	1.5745	6.3241	0.0133	0.0000	0.0205	0.0205	0.0000	0.0205	0.0205	0.0000	1,267.5965	1,267.5965	0.3701	1,276.8488

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	lb/day										lb/day					
Hauling	1.8300e-003	0.0647	0.0124	1.7000e-004	6.9500e-003	2.4000e-004	7.1900e-003	1.8200e-003	2.3000e-004	2.0500e-003		18.8182	18.8182	1.2800e-003		18.8503
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0294	0.0205	0.2696	7.1000e-004	0.0671	5.2000e-004	0.0676	0.0178	4.8000e-004	0.0183		70.8593	70.8593	2.2200e-003		70.9147
Total	0.0312	0.0851	0.2820	8.8000e-004	0.0740	7.6000e-004	0.0748	0.0196	7.1000e-004	0.0203		89.6775	89.6775	3.5000e-003		89.7650

3.7 Pile Driving - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.0456	10.0463	7.6044	0.0133		0.4266	0.4266		0.3994	0.3994		1,244.3722	1,244.3722	0.3660		1,253.5227
Total	1.0456	10.0463	7.6044	0.0133	0.0000	0.4266	0.4266	0.0000	0.3994	0.3994		1,244.3722	1,244.3722	0.3660		1,253.5227

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	lb/day										lb/day					
Hauling	1.6900e-003	0.0605	0.0120	1.7000e-004	6.6900e-003	1.9000e-004	6.8900e-003	1.7500e-003	1.9000e-004	1.9400e-003		18.6295	18.6295	1.2500e-003		18.6608
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0272	0.0183	0.2453	6.9000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		68.6651	68.6651	1.9700e-003		68.7144
Total	0.0288	0.0787	0.2573	8.6000e-004	0.0738	7.0000e-004	0.0745	0.0195	6.6000e-004	0.0202		87.2946	87.2946	3.2200e-003		87.3752

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1755	1.5745	6.3241	0.0133		0.0205	0.0205		0.0205	0.0205	0.0000	1,244.3722	1,244.3722	0.3660		1,253.5227
Total	0.1755	1.5745	6.3241	0.0133	0.0000	0.0205	0.0205	0.0000	0.0205	0.0205	0.0000	1,244.3722	1,244.3722	0.3660		1,253.5227

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
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Category	lb/day										lb/day				
Hauling	1.6900e-003	0.0605	0.0120	1.7000e-004	6.6900e-003	1.9000e-004	6.8900e-003	1.7500e-003	1.9000e-004	1.9400e-003		18.6295	18.6295	1.2500e-003	18.6608
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000
Worker	0.0272	0.0183	0.2453	6.9000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		68.6651	68.6651	1.9700e-003	68.7144
Total	0.0288	0.0787	0.2573	8.6000e-004	0.0738	7.0000e-004	0.0745	0.0195	6.6000e-004	0.0202		87.2946	87.2946	3.2200e-003	87.3752

3.8 Dynamic Compaction - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7677	9.4495	6.5297	0.0107		0.3806	0.3806		0.3501	0.3501		1,062.5899	1,062.5899	0.3362		1,070.9947
Total	0.7677	9.4495	6.5297	0.0107	0.0000	0.3806	0.3806	0.0000	0.3501	0.3501		1,062.5899	1,062.5899	0.3362		1,070.9947

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0196	0.0136	0.1797	4.7000e-004	0.0447	3.5000e-004	0.0451	0.0119	3.2000e-004	0.0122		47.2396	47.2396	1.4800e-003		47.2765

Total	0.0196	0.0136	0.1797	4.7000e-004	0.0447	3.5000e-004	0.0451	0.0119	3.2000e-004	0.0122		47.2396	47.2396	1.4800e-003		47.2765
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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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1320	0.5718	4.8385	0.0107		0.0176	0.0176		0.0176	0.0176	0.0000	1,062.5899	1,062.5899	0.3362		1,070.9947
Total	0.1320	0.5718	4.8385	0.0107	0.0000	0.0176	0.0176	0.0000	0.0176	0.0176	0.0000	1,062.5899	1,062.5899	0.3362		1,070.9947

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0196	0.0136	0.1797	4.7000e-004	0.0447	3.5000e-004	0.0451	0.0119	3.2000e-004	0.0122		47.2396	47.2396	1.4800e-003		47.2765
Total	0.0196	0.0136	0.1797	4.7000e-004	0.0447	3.5000e-004	0.0451	0.0119	3.2000e-004	0.0122		47.2396	47.2396	1.4800e-003		47.2765

3.8 Dynamic Compaction - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7051	8.4948	5.8510	0.0107		0.3405	0.3405		0.3133	0.3133		1,039.3115	1,039.3115	0.3361		1,047.7148
Total	0.7051	8.4948	5.8510	0.0107	0.0000	0.3405	0.3405	0.0000	0.3133	0.3133		1,039.3115	1,039.3115	0.3361		1,047.7148

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0181	0.0122	0.1635	4.6000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		45.7767	45.7767	1.3200e-003		45.8096
Total	0.0181	0.0122	0.1635	4.6000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		45.7767	45.7767	1.3200e-003		45.8096

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	lb/day										lb/day					

Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000			0.0000
Off-Road	0.1320	0.5718	4.8385	0.0107		0.0176	0.0176		0.0176	0.0176	0.0000	1,039.3115	1,039.3115	0.3361	1,047.7148
Total	0.1320	0.5718	4.8385	0.0107	0.0000	0.0176	0.0176	0.0000	0.0176	0.0176	0.0000	1,039.3115	1,039.3115	0.3361	1,047.7148

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0181	0.0122	0.1635	4.6000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		45.7767	45.7767	1.3200e-003		45.8096
Total	0.0181	0.0122	0.1635	4.6000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		45.7767	45.7767	1.3200e-003		45.8096

3.9 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	lb/day										lb/day					
Archit. Coating	27.6442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	27.8864	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

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	lb/day										lb/day						
Hauling	7.6000e-003	0.2721	0.0542	7.8000e-004	0.0175	8.8000e-004	0.0184	4.7900e-003	8.4000e-004	5.6300e-003		83.8329	83.8329	5.6300e-003			83.9736
Vendor	6.5700e-003	0.2099	0.0500	5.1000e-004	0.0128	1.0400e-003	0.0138	3.6900e-003	9.9000e-004	4.6800e-003		54.8897	54.8897	3.4500e-003			54.9759
Worker	0.1357	0.0912	1.2265	3.4500e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		343.3252	343.3252	9.8700e-003			343.5720
Total	0.1499	0.5733	1.3306	4.7400e-003	0.3656	4.4600e-003	0.3701	0.0974	4.1700e-003	0.1016		482.0479	482.0479	0.0190			482.5214

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	lb/day										lb/day						
Archit. Coating	27.6442					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0218			281.9928
Total	27.6739	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0218			281.9928

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
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Category	lb/day										lb/day				
Hauling	7.6000e-003	0.2721	0.0542	7.8000e-004	0.0175	8.8000e-004	0.0184	4.7900e-003	8.4000e-004	5.6300e-003		83.8329	83.8329	5.6300e-003	83.9736
Vendor	6.5700e-003	0.2099	0.0500	5.1000e-004	0.0128	1.0400e-003	0.0138	3.6900e-003	9.9000e-004	4.6800e-003		54.8897	54.8897	3.4500e-003	54.9759
Worker	0.1357	0.0912	1.2265	3.4500e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		343.3252	343.3252	9.8700e-003	343.5720
Total	0.1499	0.5733	1.3306	4.7400e-003	0.3656	4.4600e-003	0.3701	0.0974	4.1700e-003	0.1016		482.0479	482.0479	0.0190	482.5214

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
	Mitigated	14.4907	72.1727	187.2306	0.6716	53.3145	0.5239	53.8384	14.2653	0.4892	14.7545		68,309.0484	68,309.0484	3.2890	
Unmitigated	14.4907	72.1727	187.2306	0.6716	53.3145	0.5239	53.8384	14.2653	0.4892	14.7545		68,309.0484	68,309.0484	3.2890		68,391.2736

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	713.00	4,300.00	4300.00	5,000,757	5,000,757
General Office Building	23.43	5.11	5.11	58,607	58,607
General Office Building	10.19	2.22	2.22	25,481	25,481
General Office Building	3.06	0.67	0.67	7,644	7,644
General Office Building	13.24	2.89	2.89	33,126	33,126
General Office Building	5.09	1.11	1.11	12,741	12,741

Library	1,095.00	346.00	346.00	2,224,248	2,224,248
Other Asphalt Surfaces	1,880.00	1,725.00	1,725.00	6,879,471	6,879,471
Other Non-Asphalt Surfaces	396.00	724.00	724.00	1,835,236	1,835,236
Parking Lot	0.00	0.00	0.00		
Total	4,139.00	7,107.00	7,107.00	16,077,311	16,077,311

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Other Asphalt Surfaces	16.60	8.40	6.90	52.00	43.00	5.00	77	19	4
Other Non-Asphalt Surfaces	16.60	8.40	6.90	52.00	43.00	5.00	77	19	4
Parking Lot	16.60	8.40	6.90	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
City Park	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
General Office Building	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Library	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Non-Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0300	0.2725	0.2289	1.6400e-003		0.0207	0.0207		0.0207	0.0207		327.0395	327.0395	6.2700e-003	6.0000e-003	328.9829
NaturalGas Unmitigated	0.0300	0.2725	0.2289	1.6400e-003		0.0207	0.0207		0.0207	0.0207		327.0395	327.0395	6.2700e-003	6.0000e-003	328.9829

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	lb/day										lb/day					
City Park	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
General Office Building	142.603	1.5400e-003	0.0140	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.7768	16.7768	3.2000e-004	3.1000e-004	16.8765
General Office Building	285.205	3.0800e-003	0.0280	0.0235	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003		33.5536	33.5536	6.4000e-004	6.2000e-004	33.7530
General Office Building	370.767	4.0000e-003	0.0364	0.0305	2.2000e-004		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003		43.6197	43.6197	8.4000e-004	8.0000e-004	43.8789
General Office Building	655.973	7.0700e-003	0.0643	0.0540	3.9000e-004		4.8900e-003	4.8900e-003		4.8900e-003	4.8900e-003		77.1733	77.1733	1.4800e-003	1.4100e-003	77.6319
General Office Building	85.5616	9.2000e-004	8.3900e-003	7.0500e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.0661	10.0661	1.9000e-004	1.8000e-004	10.1259
Library	1239.73	0.0134	0.1215	0.1021	7.3000e-004		9.2400e-003	9.2400e-003		9.2400e-003	9.2400e-003		145.8501	145.8501	2.8000e-003	2.6700e-003	146.7168
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
Other Non-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

Parking Lot	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	0.0000	
Total		0.0300	0.2725	0.2289	1.6400e-003		0.0207	0.0207		0.0207	0.0207		327.0395	327.0395	6.2700e-003	5.9900e-003	328.9829

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	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
General Office Building	0.142603	1.5400e-003	0.0140	0.0117	8.0000e-005	1.0600e-003	1.0600e-003	1.0600e-003	1.0600e-003	1.0600e-003	1.0600e-003		16.7768	16.7768	3.2000e-004	3.1000e-004	16.8765
General Office Building	0.285205	3.0800e-003	0.0280	0.0235	1.7000e-004	2.1300e-003	2.1300e-003	2.1300e-003	2.1300e-003	2.1300e-003	2.1300e-003		33.5536	33.5536	6.4000e-004	6.2000e-004	33.7530
General Office Building	0.370767	4.0000e-003	0.0364	0.0305	2.2000e-004	2.7600e-003	2.7600e-003	2.7600e-003	2.7600e-003	2.7600e-003	2.7600e-003		43.6197	43.6197	8.4000e-004	8.0000e-004	43.8789
General Office Building	0.655973	7.0700e-003	0.0643	0.0540	3.9000e-004	4.8900e-003	4.8900e-003	4.8900e-003	4.8900e-003	4.8900e-003	4.8900e-003		77.1733	77.1733	1.4800e-003	1.4100e-003	77.6319
General Office Building	0.0855616	9.2000e-004	8.3900e-003	7.0500e-003	5.0000e-005	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004	6.4000e-004		10.0661	10.0661	1.9000e-004	1.8000e-004	10.1259
Library	1.23973	0.0134	0.1215	0.1021	7.3000e-004	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003	9.2400e-003		145.8501	145.8501	2.8000e-003	2.6700e-003	146.7168
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
Other Non-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
Parking Lot	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
Total		0.0300	0.2725	0.2289	1.6400e-003		0.0207	0.0207		0.0207	0.0207		327.0395	327.0395	6.2700e-003	5.9900e-003	328.9829

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.6758	1.2800e-003	0.1394	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.2976	0.2976	7.9000e-004		0.3174
Unmitigated	2.6758	1.2800e-003	0.1394	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.2976	0.2976	7.9000e-004		0.3174

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	lb/day										lb/day					
Architectural Coating	0.3366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3263					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0130	1.2800e-003	0.1394	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.2976	0.2976	7.9000e-004		0.3174
Total	2.6758	1.2800e-003	0.1394	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.2976	0.2976	7.9000e-004		0.3174

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
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SubCategory	lb/day								lb/day					
	Architectural Coating	0.3366				0.0000	0.0000		0.0000	0.0000			0.0000	
Consumer Products	2.3263				0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Landscaping	0.0130	1.2800e-003	0.1394	1.0000e-005	5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.2976	0.2976	7.9000e-004	0.3174
Total	2.6758	1.2800e-003	0.1394	1.0000e-005	5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.2976	0.2976	7.9000e-004	0.3174

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Kimmelman Foundation Center - South Coast AQMD Air District, Winter

Kimmelman Foundation Center
South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	23.00	1000sqft	0.53	23,000.00	0
General Office Building	10.00	1000sqft	0.23	10,000.00	0
General Office Building	3.00	1000sqft	0.07	3,000.00	0
General Office Building	13.00	1000sqft	0.30	13,000.00	0
General Office Building	5.00	1000sqft	0.11	5,000.00	0
Library	25.00	1000sqft	0.57	25,000.00	0
Other Asphalt Surfaces	29.00	Acre	29.00	1,263,240.00	0
Other Non-Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0
Parking Lot	1,193.00	Space	10.74	477,200.00	0
City Park	58.00	Acre	58.00	2,526,480.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	588.29	CH4 Intensity (lb/MW hr)	0.024	N2O Intensity (lb/MW hr)	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Operational year 2021. CO2 and CH4. Intensity factors based on SCE RPS data for 2021.

Land Use - Proposed land use data was provided by the project applicant.

Construction Phase - Construction phasing was provided by the project applicant.

Off-road Equipment - Construction off-road equipment information was provided by the project applicant.

Off-road Equipment - Construction off-road equipment information was provided by the project applicant.

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Off-road Equipment - Construction off-road equipment information was provided by the project applicant.

Trips and VMT - Construction trip data provided by the project applicant.

Grading - CalEEMod defaults.

Vehicle Trips - Week day and weekend trip rates are based on the trip generation values identified in the proposed project's traffic report.

Area Coating - parking lot area provided by the project applicant.

Energy Use - Additional energy use from outdoor lighting was captured under the parking lot land use.

Water And Wastewater - Water use based in information from the project applicant.

Construction Off-road Equipment Mitigation - use of Tier 4 final engines in construction equipment over 75 horsepower and

In compliance with COGMD Rule 400

Water Mitigation - NA

Waste Mitigation - In compliance with AB 341.

Fleet Mix - CalEEMod defaults.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	107,040.00	104,426.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	220.00	44.00
tblConstructionPhase	NumDays	3,100.00	132.00
tblConstructionPhase	NumDays	310.00	65.00
tblConstructionPhase	NumDays	310.00	45.00
tblConstructionPhase	NumDays	310.00	45.00

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.024
tblProjectCharacteristics	CO2IntensityFactor	702.44	588.29
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblTripsAndVMT	HaulingTripNumber	0.00	10,500.00
tblTripsAndVMT	HaulingTripNumber	0.00	132.00
tblTripsAndVMT	HaulingTripNumber	0.00	10,500.00
tblTripsAndVMT	HaulingTripNumber	0.00	621.00
tblTripsAndVMT	HaulingTripNumber	0.00	460.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	44.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	719.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	1,838.00	50.00
tblTripsAndVMT	WorkerTripNumber	20.00	30.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	4.00
tblTripsAndVMT	WorkerTripNumber	368.00	30.00
tblVehicleTrips	CC_TTP	0.00	43.00
tblVehicleTrips	CC_TTP	0.00	43.00
tblVehicleTrips	CNW_TTP	0.00	5.00
tblVehicleTrips	CNW_TTP	0.00	5.00
tblVehicleTrips	CW_TTP	0.00	52.00
tblVehicleTrips	CW_TTP	0.00	52.00
tblVehicleTrips	DV_TP	0.00	19.00

tblVehicleTrips	DV_TP	0.00	19.00
tblVehicleTrips	PB_TP	0.00	4.00
tblVehicleTrips	PB_TP	0.00	4.00
tblVehicleTrips	PR_TP	0.00	77.00
tblVehicleTrips	PR_TP	0.00	77.00
tblVehicleTrips	ST_TR	22.75	74.14
tblVehicleTrips	ST_TR	2.46	0.22
tblVehicleTrips	ST_TR	46.55	13.84
tblVehicleTrips	ST_TR	0.00	59.48
tblVehicleTrips	ST_TR	0.00	724.00
tblVehicleTrips	SU_TR	16.74	74.14
tblVehicleTrips	SU_TR	1.05	0.22
tblVehicleTrips	SU_TR	25.49	13.84
tblVehicleTrips	SU_TR	0.00	59.48
tblVehicleTrips	SU_TR	0.00	724.00
tblVehicleTrips	WD_TR	1.89	12.29
tblVehicleTrips	WD_TR	11.03	1.02
tblVehicleTrips	WD_TR	56.24	43.80
tblVehicleTrips	WD_TR	0.00	64.83
tblVehicleTrips	WD_TR	0.00	396.00
tblWater	IndoorWaterUseRate	9,597,622.39	9,500,000.00
tblWater	IndoorWaterUseRate	782,222.71	500,000.00
tblWater	OutdoorWaterUseRate	69,105,918.28	11,516,480.00
tblWater	OutdoorWaterUseRate	0.00	1,084,050.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2019	17.9300	239.4738	122.7354	0.4263	33.6767	8.0178	41.6945	15.4993	7.4159	22.9152	0.0000	44,434.4771	44,434.4771	6.7330	0.0000	44,602.8006
2020	30.7976	56.1323	53.2107	0.0943	1.2636	2.8629	4.1264	0.3356	2.6638	2.9994	0.0000	9,149.1979	9,149.1979	2.2306	0.0000	9,204.9636
Maximum	30.7976	239.4738	122.7354	0.4263	33.6767	8.0178	41.6945	15.4993	7.4159	22.9152	0.0000	44,434.4771	44,434.4771	6.7330	0.0000	44,602.8006

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	lb/day										lb/day					
2019	6.2346	111.8064	122.7492	0.4263	17.6890	0.6329	18.3220	7.2826	0.6161	7.8987	0.0000	44,434.4770	44,434.4770	6.7330	0.0000	44,602.8006
2020	29.0938	13.1759	53.9778	0.0943	1.2636	0.1397	1.4032	0.3356	0.1386	0.4742	0.0000	9,149.1979	9,149.1979	2.2306	0.0000	9,204.9636
Maximum	29.0938	111.8064	122.7492	0.4263	17.6890	0.6329	18.3220	7.2826	0.6161	7.8987	0.0000	44,434.4770	44,434.4770	6.7330	0.0000	44,602.8006

	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	27.50	57.72	-0.44	0.00	45.76	92.90	56.95	51.89	92.51	67.69	0.00	0.00	0.00	0.00	0.00	0.00

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	lb/day										lb/day					

Area	2.6758	1.2800e-003	0.1394	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.2976	0.2976	7.9000e-004		0.3174
Energy	0.0300	0.2725	0.2289	1.6400e-003		0.0207	0.0207		0.0207	0.0207		327.0395	327.0395	6.2700e-003	6.0000e-003	328.9829
Mobile	13.7755	73.5821	175.7474	0.6354	53.3145	0.5272	53.8417	14.2653	0.4924	14.7576		64,667.9802	64,667.9802	3.2899		64,750.2276
Total	16.4813	73.8559	176.1158	0.6370	53.3145	0.5484	53.8629	14.2653	0.5136	14.7789		64,995.3173	64,995.3173	3.2970	6.0000e-003	65,079.5279

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	lb/day										lb/day					
Area	2.6758	1.2800e-003	0.1394	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.2976	0.2976	7.9000e-004		0.3174
Energy	0.0300	0.2725	0.2289	1.6400e-003		0.0207	0.0207		0.0207	0.0207		327.0395	327.0395	6.2700e-003	6.0000e-003	328.9829
Mobile	13.7755	73.5821	175.7474	0.6354	53.3145	0.5272	53.8417	14.2653	0.4924	14.7576		64,667.9802	64,667.9802	3.2899		64,750.2276
Total	16.4813	73.8559	176.1158	0.6370	53.3145	0.5484	53.8629	14.2653	0.5136	14.7789		64,995.3173	64,995.3173	3.2970	6.0000e-003	65,079.5279

	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	Demo/Site prep/C&G	Site Preparation	8/1/2019	11/1/2019	5	67	
2	Trenching	Trenching	8/1/2019	11/1/2019	5	67	
3	Grading	Grading	9/1/2019	11/29/2019	5	65	

4	Building Construction	Building Construction	10/1/2019	4/1/2020	5	132
5	Sport Surfaces and Paving	Paving	11/1/2019	6/2/2020	5	153
6	Pile Driving	Grading	12/1/2019	1/31/2020	5	45
7	Dynamic Compaction	Grading	12/1/2019	1/31/2020	5	45
8	Architectural Coating	Architectural Coating	5/1/2020	7/1/2020	5	44

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 130

Acres of Paving: 40.74

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 118,500; Non-Residential Outdoor: 39,500; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demo/Site prep/C&G	Rubber Tired Dozers	2	8.00	247	0.40
Demo/Site prep/C&G	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Trenching	Excavators	2	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Trenchers	2	8.00	78	0.50
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Aerial Lifts	2	8.00	63	0.31
Building Construction	Cranes	0	0.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Sport Surfaces and Paving	Pavers	2	8.00	130	0.42

Sport Surfaces and Paving	Paving Equipment	2	8.00	132	0.36
Sport Surfaces and Paving	Rollers	2	8.00	80	0.38
Sport Surfaces and Paving	Sweepers/Scrubbers	2	8.00	64	0.46
Pile Driving	Cranes	1	8.00	429	0.29
Pile Driving	Excavators	0	0.00	158	0.38
Pile Driving	Graders	0	0.00	187	0.41
Pile Driving	Rubber Tired Dozers	0	0.00	247	0.40
Pile Driving	Scrapers	0	0.00	367	0.48
Pile Driving	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Pile Driving	Welders	1	8.00	46	0.45
Dynamic Compaction	Cranes	1	8.00	430	0.29
Dynamic Compaction	Excavators	0	0.00	158	0.38
Dynamic Compaction	Graders	0	0.00	187	0.41
Dynamic Compaction	Rubber Tired Dozers	0	0.00	247	0.40
Dynamic Compaction	Scrapers	0	0.00	367	0.48
Dynamic Compaction	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demo/Site prep/C&G	5	20.00	0.00	10,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	6	20.00	4.00	132.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	10,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	50.00	6.00	621.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Sport Surfaces and Paving	8	30.00	0.00	460.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Pile Driving	2	6.00	0.00	10.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Dynamic Compaction	1	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	30.00	2.00	44.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demo/Site prep/C&G - 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	lb/day										lb/day					
Fugitive Dust					12.0442	0.0000	12.0442	6.6205	0.0000	6.6205			0.0000			0.0000
Off-Road	2.9676	31.1609	15.4762	0.0264		1.6456	1.6456		1.5139	1.5139		2,613.4826	2,613.4826	0.8269		2,634.1545
Total	2.9676	31.1609	15.4762	0.0264	12.0442	1.6456	13.6898	6.6205	1.5139	8.1344		2,613.4826	2,613.4826	0.8269		2,634.1545

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	lb/day										lb/day					
Hauling	1.3256	46.2379	9.4480	0.1207	2.7386	0.1725	2.9110	0.7505	0.1650	0.9155		13,030.1860	13,030.1860	0.9463		13,053.8438
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1067	0.0747	0.8108	2.2200e-003	0.2236	1.7400e-003	0.2253	0.0593	1.6000e-003	0.0609		220.9312	220.9312	6.9000e-003		221.1037
Total	1.4323	46.3126	10.2588	0.1229	2.9621	0.1742	3.1363	0.8098	0.1666	0.9764		13,251.1172	13,251.1172	0.9532		13,274.9475

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	lb/day										lb/day					
Fugitive Dust					4.6972	0.0000	4.6972	2.5820	0.0000	2.5820			0.0000			0.0000
Off-Road	0.3230	1.3999	14.6934	0.0264		0.0431	0.0431		0.0431	0.0431	0.0000	2,613.4825	2,613.4825	0.8269		2,634.1545
Total	0.3230	1.3999	14.6934	0.0264	4.6972	0.0431	4.7403	2.5820	0.0431	2.6251	0.0000	2,613.4825	2,613.4825	0.8269		2,634.1545

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	lb/day										lb/day					
Hauling	1.3256	46.2379	9.4480	0.1207	2.7386	0.1725	2.9110	0.7505	0.1650	0.9155		13,030.1860	13,030.1860	0.9463		13,053.8438
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1067	0.0747	0.8108	2.2200e-003	0.2236	1.7400e-003	0.2253	0.0593	1.6000e-003	0.0609		220.9312	220.9312	6.9000e-003		221.1037
Total	1.4323	46.3126	10.2588	0.1229	2.9621	0.1742	3.1363	0.8098	0.1666	0.9764		13,251.1172	13,251.1172	0.9532		13,274.9475

3.3 Trenching - 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
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Category	lb/day										lb/day				
Off-Road	1.8557	17.8731	16.4100	0.0233		1.1631	1.1631		1.0700	1.0700	2,305.0420	2,305.0420	0.7293		2,323.2743
Total	1.8557	17.8731	16.4100	0.0233		1.1631	1.1631		1.0700	1.0700	2,305.0420	2,305.0420	0.7293		2,323.2743

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	lb/day										lb/day					
Hauling	0.0167	0.5813	0.1188	1.5200e-003	0.0344	2.1700e-003	0.0366	9.4300e-003	2.0700e-003	0.0115		163.8081	163.8081	0.0119		164.1055
Vendor	0.0161	0.4580	0.1232	1.0100e-003	0.0256	3.0800e-003	0.0287	7.3700e-003	2.9500e-003	0.0103		107.3265	107.3265	7.8600e-003		107.5229
Worker	0.1067	0.0747	0.8108	2.2200e-003	0.2236	1.7400e-003	0.2253	0.0593	1.6000e-003	0.0609		220.9312	220.9312	6.9000e-003		221.1037
Total	0.1394	1.1140	1.0528	4.7500e-003	0.2836	6.9900e-003	0.2906	0.0761	6.6200e-003	0.0827		492.0657	492.0657	0.0267		492.7321

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	lb/day										lb/day					
Off-Road	0.2856	1.2375	17.6102	0.0233		0.0381	0.0381		0.0381	0.0381	0.0000	2,305.0420	2,305.0420	0.7293		2,323.2743
Total	0.2856	1.2375	17.6102	0.0233		0.0381	0.0381		0.0381	0.0381	0.0000	2,305.0420	2,305.0420	0.7293		2,323.2743

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	lb/day										lb/day					
Hauling	0.0167	0.5813	0.1188	1.5200e-003	0.0344	2.1700e-003	0.0366	9.4300e-003	2.0700e-003	0.0115		163.8081	163.8081	0.0119		164.1055
Vendor	0.0161	0.4580	0.1232	1.0100e-003	0.0256	3.0800e-003	0.0287	7.3700e-003	2.9500e-003	0.0103		107.3265	107.3265	7.8600e-003		107.5229
Worker	0.1067	0.0747	0.8108	2.2200e-003	0.2236	1.7400e-003	0.2253	0.0593	1.6000e-003	0.0609		220.9312	220.9312	6.9000e-003		221.1037
Total	0.1394	1.1140	1.0528	4.7500e-003	0.2836	6.9900e-003	0.2906	0.0761	6.6200e-003	0.0827		492.0657	492.0657	0.0267		492.7321

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	lb/day										lb/day					
Fugitive Dust					14.1652	0.0000	14.1652	6.8495	0.0000	6.8495			0.0000			0.0000
Off-Road	4.8653	54.6513	29.2964	0.0536		2.5015	2.5015		2.3014	2.3014		5,305.5697	5,305.5697	1.6786		5,347.5353
Total	4.8653	54.6513	29.2964	0.0536	14.1652	2.5015	16.6667	6.8495	2.3014	9.1509		5,305.5697	5,305.5697	1.6786		5,347.5353

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	lb/day										lb/day					
Hauling	1.3664	47.6606	9.7387	0.1244	2.8228	0.1778	3.0006	0.7736	0.1701	0.9437		13,431.1148	13,431.1148	0.9754		13,455.5005
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0800	0.0560	0.6081	1.6600e-003	0.1677	1.3000e-003	0.1690	0.0445	1.2000e-003	0.0457		165.6984	165.6984	5.1800e-003		165.8278
Total	1.4464	47.7166	10.3468	0.1261	2.9905	0.1791	3.1696	0.8181	0.1713	0.9894		13,596.8132	13,596.8132	0.9806		13,621.3283

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	lb/day										lb/day					
Fugitive Dust					5.5244	0.0000	5.5244	2.6713	0.0000	2.6713			0.0000			0.0000
Off-Road	0.6579	2.8509	26.0218	0.0536		0.0877	0.0877		0.0877	0.0877	0.0000	5,305.5697	5,305.5697	1.6786		5,347.5353
Total	0.6579	2.8509	26.0218	0.0536	5.5244	0.0877	5.6121	2.6713	0.0877	2.7590	0.0000	5,305.5697	5,305.5697	1.6786		5,347.5353

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	lb/day										lb/day					

Hauling	1.3664	47.6606	9.7387	0.1244	2.8228	0.1778	3.0006	0.7736	0.1701	0.9437		13,431.1148	13,431.1148	0.9754		13,455.5005
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0800	0.0560	0.6081	1.6600e-003	0.1677	1.3000e-003	0.1690	0.0445	1.2000e-003	0.0457		165.6984	165.6984	5.1800e-003		165.8278
Total	1.4464	47.7166	10.3468	0.1261	2.9905	0.1791	3.1696	0.8181	0.1713	0.9894		13,596.8132	13,596.8132	0.9806		13,621.3283

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	lb/day										lb/day					
Off-Road	2.0016	17.1844	17.3429	0.0252		1.1005	1.1005		1.0385	1.0385		2,424.2381	2,424.2381	0.5784		2,438.6979
Total	2.0016	17.1844	17.3429	0.0252		1.1005	1.1005		1.0385	1.0385		2,424.2381	2,424.2381	0.5784		2,438.6979

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	lb/day										lb/day					
Hauling	0.0398	1.3880	0.2836	3.6200e-003	0.1444	5.1800e-003	0.1496	0.0378	4.9500e-003	0.0428		391.1594	391.1594	0.0284		391.8696
Vendor	0.0242	0.6870	0.1848	1.5100e-003	0.0384	4.6200e-003	0.0430	0.0111	4.4200e-003	0.0155		160.9898	160.9898	0.0118		161.2844
Worker	0.2666	0.1866	2.0269	5.5500e-003	0.5589	4.3500e-003	0.5632	0.1482	4.0100e-003	0.1522		552.3279	552.3279	0.0173		552.7593
Total	0.3306	2.2617	2.4954	0.0107	0.7417	0.0142	0.7558	0.1971	0.0134	0.2105		1,104.4771	1,104.4771	0.0575		1,105.9133

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	lb/day										lb/day					
Off-Road	0.3485	3.8535	17.7348	0.0252		0.0380	0.0380		0.0380	0.0380	0.0000	2,424.2381	2,424.2381	0.5784		2,438.6978
Total	0.3485	3.8535	17.7348	0.0252		0.0380	0.0380		0.0380	0.0380	0.0000	2,424.2381	2,424.2381	0.5784		2,438.6978

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	lb/day										lb/day					
Hauling	0.0398	1.3880	0.2836	3.6200e-003	0.1444	5.1800e-003	0.1496	0.0378	4.9500e-003	0.0428		391.1594	391.1594	0.0284		391.8696
Vendor	0.0242	0.6870	0.1848	1.5100e-003	0.0384	4.6200e-003	0.0430	0.0111	4.4200e-003	0.0155		160.9898	160.9898	0.0118		161.2844
Worker	0.2666	0.1866	2.0269	5.5500e-003	0.5589	4.3500e-003	0.5632	0.1482	4.0100e-003	0.1522		552.3279	552.3279	0.0173		552.7593
Total	0.3306	2.2617	2.4954	0.0107	0.7417	0.0142	0.7558	0.1971	0.0134	0.2105		1,104.4771	1,104.4771	0.0575		1,105.9133

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	lb/day										lb/day					
Off-Road	1.8023	15.7557	17.1861	0.0252		0.9512	0.9512		0.8978	0.8978		2,389.3618	2,389.3618	0.5699		2,403.6096
Total	1.8023	15.7557	17.1861	0.0252		0.9512	0.9512		0.8978	0.8978		2,389.3618	2,389.3618	0.5699		2,403.6096

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	lb/day										lb/day					
Hauling	0.0368	1.2967	0.2742	3.5800e-003	0.1444	4.1900e-003	0.1486	0.0378	4.0100e-003	0.0418		387.1361	387.1361	0.0276		387.8265
Vendor	0.0206	0.6290	0.1672	1.5000e-003	0.0384	3.1700e-003	0.0416	0.0111	3.0300e-003	0.0141		159.9077	159.9077	0.0111		160.1853
Worker	0.2467	0.1665	1.8404	5.3700e-003	0.5589	4.2400e-003	0.5631	0.1482	3.9000e-003	0.1521		535.1825	535.1825	0.0154		535.5662
Total	0.3041	2.0922	2.2818	0.0105	0.7417	0.0116	0.7533	0.1971	0.0109	0.2080		1,082.2263	1,082.2263	0.0541		1,083.5780

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	lb/day										lb/day					
Off-Road	0.3485	3.8535	17.7348	0.0252		0.0380	0.0380		0.0380	0.0380	0.0000	2,389.3618	2,389.3618	0.5699		2,403.6096

Total	0.3485	3.8535	17.7348	0.0252		0.0380	0.0380		0.0380	0.0380	0.0000	2,389.3618	2,389.3618	0.5699		2,403.6096
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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	lb/day										lb/day					
Hauling	0.0368	1.2967	0.2742	3.5800e-003	0.1444	4.1900e-003	0.1486	0.0378	4.0100e-003	0.0418		387.1361	387.1361	0.0276		387.8265
Vendor	0.0206	0.6290	0.1672	1.5000e-003	0.0384	3.1700e-003	0.0416	0.0111	3.0300e-003	0.0141		159.9077	159.9077	0.0111		160.1853
Worker	0.2467	0.1665	1.8404	5.3700e-003	0.5589	4.2400e-003	0.5631	0.1482	3.9000e-003	0.1521		535.1825	535.1825	0.0154		535.5662
Total	0.3041	2.0922	2.2818	0.0105	0.7417	0.0116	0.7533	0.1971	0.0109	0.2080		1,082.2263	1,082.2263	0.0541		1,083.5780

3.6 Sport Surfaces and Paving - 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	lb/day										lb/day					
Off-Road	2.0252	20.2002	18.6588	0.0279		1.2267	1.2267		1.1286	1.1286		2,760.2965	2,760.2965	0.8733		2,782.1297
Paving	0.6805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.7057	20.2002	18.6588	0.0279		1.2267	1.2267		1.1286	1.1286		2,760.2965	2,760.2965	0.8733		2,782.1297

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	lb/day										lb/day					
Hauling	0.0254	0.8871	0.1813	2.3200e-003	0.1542	3.3100e-003	0.1575	0.0394	3.1700e-003	0.0425		249.9784	249.9784	0.0182		250.4323
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1600	0.1120	1.2162	3.3300e-003	0.3353	2.6100e-003	0.3379	0.0889	2.4000e-003	0.0913		331.3967	331.3967	0.0104		331.6556
Total	0.1854	0.9990	1.3974	5.6500e-003	0.4896	5.9200e-003	0.4955	0.1283	5.5700e-003	0.1339		581.3751	581.3751	0.0285		582.0879

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	lb/day										lb/day					
Off-Road	0.4051	4.0608	21.1380	0.0279		0.0457	0.0457		0.0457	0.0457	0.0000	2,760.2965	2,760.2965	0.8733		2,782.1297
Paving	0.6805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0856	4.0608	21.1380	0.0279		0.0457	0.0457		0.0457	0.0457	0.0000	2,760.2965	2,760.2965	0.8733		2,782.1297

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	lb/day										lb/day					

Hauling	0.0254	0.8871	0.1813	2.3200e-003	0.1542	3.3100e-003	0.1575	0.0394	3.1700e-003	0.0425		249.9784	249.9784	0.0182		250.4323
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1600	0.1120	1.2162	3.3300e-003	0.3353	2.6100e-003	0.3379	0.0889	2.4000e-003	0.0913		331.3967	331.3967	0.0104		331.6556
Total	0.1854	0.9990	1.3974	5.6500e-003	0.4896	5.9200e-003	0.4955	0.1283	5.5700e-003	0.1339		581.3751	581.3751	0.0285		582.0879

3.6 Sport Surfaces and 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	lb/day										lb/day					
Off-Road	1.8965	18.7201	18.6268	0.0279		1.1267	1.1267		1.0366	1.0366		2,700.0863	2,700.0863	0.8733		2,721.9178
Paving	0.6805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.5770	18.7201	18.6268	0.0279		1.1267	1.1267		1.0366	1.0366		2,700.0863	2,700.0863	0.8733		2,721.9178

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	lb/day										lb/day					
Hauling	0.0235	0.8287	0.1753	2.2900e-003	0.0681	2.6800e-003	0.0708	0.0182	2.5600e-003	0.0208		247.4073	247.4073	0.0177		247.8485
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1480	0.0999	1.1043	3.2200e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		321.1095	321.1095	9.2100e-003		321.3397
Total	0.1715	0.9286	1.2795	5.5100e-003	0.4034	5.2200e-003	0.4086	0.1071	4.9000e-003	0.1120		568.5167	568.5167	0.0269		569.1882

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	lb/day										lb/day					
Off-Road	0.4051	4.0608	21.1380	0.0279		0.0457	0.0457		0.0457	0.0457	0.0000	2,700.0862	2,700.0862	0.8733		2,721.9178
Paving	0.6805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0856	4.0608	21.1380	0.0279		0.0457	0.0457		0.0457	0.0457	0.0000	2,700.0862	2,700.0862	0.8733		2,721.9178

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	lb/day										lb/day					
Hauling	0.0235	0.8287	0.1753	2.2900e-003	0.0681	2.6800e-003	0.0708	0.0182	2.5600e-003	0.0208		247.4073	247.4073	0.0177		247.8485
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1480	0.0999	1.1043	3.2200e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		321.1095	321.1095	9.2100e-003		321.3397
Total	0.1715	0.9286	1.2795	5.5100e-003	0.4034	5.2200e-003	0.4086	0.1071	4.9000e-003	0.1120		568.5167	568.5167	0.0269		569.1882

3.7 Pile Driving - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.1511	11.0518	8.3216	0.0133		0.4794	0.4794		0.4490	0.4490		1,267.5965	1,267.5965	0.3701		1,276.8488
Total	1.1511	11.0518	8.3216	0.0133	0.0000	0.4794	0.4794	0.0000	0.4490	0.4490		1,267.5965	1,267.5965	0.3701		1,276.8488

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	lb/day										lb/day					
Hauling	1.8800e-003	0.0656	0.0134	1.7000e-004	6.9500e-003	2.4000e-004	7.2000e-003	1.8200e-003	2.3000e-004	2.0500e-003		18.4767	18.4767	1.3400e-003		18.5102
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0320	0.0224	0.2432	6.7000e-004	0.0671	5.2000e-004	0.0676	0.0178	4.8000e-004	0.0183		66.2793	66.2793	2.0700e-003		66.3311
Total	0.0339	0.0880	0.2566	8.4000e-004	0.0740	7.6000e-004	0.0748	0.0196	7.1000e-004	0.0203		84.7560	84.7560	3.4100e-003		84.8413

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

Off-Road	0.1755	1.5745	6.3241	0.0133		0.0205	0.0205		0.0205	0.0205	0.0000	1,267.5965	1,267.5965	0.3701		1,276.8488
Total	0.1755	1.5745	6.3241	0.0133	0.0000	0.0205	0.0205	0.0000	0.0205	0.0205	0.0000	1,267.5965	1,267.5965	0.3701		1,276.8488

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	lb/day										lb/day						
Hauling	1.8800e-003	0.0656	0.0134	1.7000e-004	6.9500e-003	2.4000e-004	7.2000e-003	1.8200e-003	2.3000e-004	2.0500e-003			18.4767	18.4767	1.3400e-003		18.5102
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000		0.0000
Worker	0.0320	0.0224	0.2432	6.7000e-004	0.0671	5.2000e-004	0.0676	0.0178	4.8000e-004	0.0183			66.2793	66.2793	2.0700e-003		66.3311
Total	0.0339	0.0880	0.2566	8.4000e-004	0.0740	7.6000e-004	0.0748	0.0196	7.1000e-004	0.0203			84.7560	84.7560	3.4100e-003		84.8413

3.7 Pile Driving - 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	lb/day										lb/day						
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000	
Off-Road	1.0456	10.0463	7.6044	0.0133		0.4266	0.4266		0.3994	0.3994			1,244.3722	1,244.3722	0.3660		1,253.5227
Total	1.0456	10.0463	7.6044	0.0133	0.0000	0.4266	0.4266	0.0000	0.3994	0.3994			1,244.3722	1,244.3722	0.3660		1,253.5227

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	lb/day										lb/day					
Hauling	1.7400e-003	0.0613	0.0130	1.7000e-004	6.6900e-003	2.0000e-004	6.8900e-003	1.7500e-003	1.9000e-004	1.9400e-003		18.2866	18.2866	1.3000e-003		18.3192
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0296	0.0200	0.2209	6.4000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		64.2219	64.2219	1.8400e-003		64.2679
Total	0.0314	0.0812	0.2338	8.1000e-004	0.0738	7.1000e-004	0.0745	0.0195	6.6000e-004	0.0202		82.5085	82.5085	3.1400e-003		82.5872

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1755	1.5745	6.3241	0.0133		0.0205	0.0205		0.0205	0.0205	0.0000	1,244.3722	1,244.3722	0.3660		1,253.5227
Total	0.1755	1.5745	6.3241	0.0133	0.0000	0.0205	0.0205	0.0000	0.0205	0.0205	0.0000	1,244.3722	1,244.3722	0.3660		1,253.5227

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	lb/day										lb/day					

Hauling	1.7400e-003	0.0613	0.0130	1.7000e-004	6.6900e-003	2.0000e-004	6.8900e-003	1.7500e-003	1.9000e-004	1.9400e-003		18.2866	18.2866	1.3000e-003		18.3192
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0296	0.0200	0.2209	6.4000e-004	0.0671	5.1000e-004	0.0676	0.0178	4.7000e-004	0.0183		64.2219	64.2219	1.8400e-003		64.2679
Total	0.0314	0.0812	0.2338	8.1000e-004	0.0738	7.1000e-004	0.0745	0.0195	6.6000e-004	0.0202		82.5085	82.5085	3.1400e-003		82.5872

3.8 Dynamic Compaction - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7677	9.4495	6.5297	0.0107		0.3806	0.3806		0.3501	0.3501		1,062.5899	1,062.5899	0.3362		1,070.9947
Total	0.7677	9.4495	6.5297	0.0107	0.0000	0.3806	0.3806	0.0000	0.3501	0.3501		1,062.5899	1,062.5899	0.3362		1,070.9947

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0213	0.0149	0.1622	4.4000e-004	0.0447	3.5000e-004	0.0451	0.0119	3.2000e-004	0.0122		44.1862	44.1862	1.3800e-003		44.2207
Total	0.0213	0.0149	0.1622	4.4000e-004	0.0447	3.5000e-004	0.0451	0.0119	3.2000e-004	0.0122		44.1862	44.1862	1.3800e-003		44.2207

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1320	0.5718	4.8385	0.0107		0.0176	0.0176		0.0176	0.0176	0.0000	1,062.5899	1,062.5899	0.3362		1,070.9947
Total	0.1320	0.5718	4.8385	0.0107	0.0000	0.0176	0.0176	0.0000	0.0176	0.0176	0.0000	1,062.5899	1,062.5899	0.3362		1,070.9947

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0213	0.0149	0.1622	4.4000e-004	0.0447	3.5000e-004	0.0451	0.0119	3.2000e-004	0.0122		44.1862	44.1862	1.3800e-003		44.2207
Total	0.0213	0.0149	0.1622	4.4000e-004	0.0447	3.5000e-004	0.0451	0.0119	3.2000e-004	0.0122		44.1862	44.1862	1.3800e-003		44.2207

3.8 Dynamic Compaction - 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.7051	8.4948	5.8510	0.0107		0.3405	0.3405		0.3133	0.3133		1,039.3115	1,039.3115	0.3361		1,047.7148
Total	0.7051	8.4948	5.8510	0.0107	0.0000	0.3405	0.3405	0.0000	0.3133	0.3133		1,039.3115	1,039.3115	0.3361		1,047.7148

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0197	0.0133	0.1472	4.3000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		42.8146	42.8146	1.2300e-003		42.8453
Total	0.0197	0.0133	0.1472	4.3000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		42.8146	42.8146	1.2300e-003		42.8453

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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000

Off-Road	0.1320	0.5718	4.8385	0.0107		0.0176	0.0176		0.0176	0.0176	0.0000	1,039.3115	1,039.3115	0.3361		1,047.7148
Total	0.1320	0.5718	4.8385	0.0107	0.0000	0.0176	0.0176	0.0000	0.0176	0.0176	0.0000	1,039.3115	1,039.3115	0.3361		1,047.7148

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0197	0.0133	0.1472	4.3000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		42.8146	42.8146	1.2300e-003		42.8453
Total	0.0197	0.0133	0.1472	4.3000e-004	0.0447	3.4000e-004	0.0451	0.0119	3.1000e-004	0.0122		42.8146	42.8146	1.2300e-003		42.8453

3.9 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	lb/day										lb/day					
Archit. Coating	27.6442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	27.8864	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

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	lb/day										lb/day					
Hauling	7.8100e-003	0.2756	0.0583	7.6000e-004	0.0175	8.9000e-004	0.0184	4.7900e-003	8.5000e-004	5.6400e-003		82.2898	82.2898	5.8700e-003		82.4366
Vendor	6.8800e-003	0.2097	0.0557	5.0000e-004	0.0128	1.0600e-003	0.0139	3.6900e-003	1.0100e-003	4.6900e-003		53.3026	53.3026	3.7000e-003		53.3951
Worker	0.1480	0.0999	1.1043	3.2200e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		321.1095	321.1095	9.2100e-003		321.3397
Total	0.1627	0.5852	1.2183	4.4800e-003	0.3656	4.4900e-003	0.3701	0.0974	4.2000e-003	0.1016		456.7019	456.7019	0.0188		457.1714

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	lb/day										lb/day					
Archit. Coating	27.6442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0218		281.9928
Total	27.6739	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0218		281.9928

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	lb/day										lb/day					

Hauling	7.8100e-003	0.2756	0.0583	7.6000e-004	0.0175	8.9000e-004	0.0184	4.7900e-003	8.5000e-004	5.6400e-003		82.2898	82.2898	5.8700e-003		82.4366
Vendor	6.8800e-003	0.2097	0.0557	5.0000e-004	0.0128	1.0600e-003	0.0139	3.6900e-003	1.0100e-003	4.6900e-003		53.3026	53.3026	3.7000e-003		53.3951
Worker	0.1480	0.0999	1.1043	3.2200e-003	0.3353	2.5400e-003	0.3379	0.0889	2.3400e-003	0.0913		321.1095	321.1095	9.2100e-003		321.3397
Total	0.1627	0.5852	1.2183	4.4800e-003	0.3656	4.4900e-003	0.3701	0.0974	4.2000e-003	0.1016		456.7019	456.7019	0.0188		457.1714

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	13.7755	73.5821	175.7474	0.6354	53.3145	0.5272	53.8417	14.2653	0.4924	14.7576		64,667.9802	64,667.9802	3.2899			64,750.2276
Unmitigated	13.7755	73.5821	175.7474	0.6354	53.3145	0.5272	53.8417	14.2653	0.4924	14.7576		64,667.9802	64,667.9802	3.2899			64,750.2276

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	713.00	4,300.00	4300.00	5,000,757	5,000,757
General Office Building	23.43	5.11	5.11	58,607	58,607
General Office Building	10.19	2.22	2.22	25,481	25,481
General Office Building	3.06	0.67	0.67	7,644	7,644
General Office Building	13.24	2.89	2.89	33,126	33,126
General Office Building	5.09	1.11	1.11	12,741	12,741
Library	1,095.00	346.00	346.00	2,224,248	2,224,248
Other Asphalt Surfaces	1,880.00	1,725.00	1,725.00	6,879,471	6,879,471

Other Non-Asphalt Surfaces	396.00	724.00	724.00	1,835,236	1,835,236
Parking Lot	0.00	0.00	0.00		
Total	4,139.00	7,107.00	7,107.00	16,077,311	16,077,311

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Library	16.60	8.40	6.90	52.00	43.00	5.00	44	44	12
Other Asphalt Surfaces	16.60	8.40	6.90	52.00	43.00	5.00	77	19	4
Other Non-Asphalt Surfaces	16.60	8.40	6.90	52.00	43.00	5.00	77	19	4
Parking Lot	16.60	8.40	6.90	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
City Park	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
General Office Building	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Library	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Other Non-Asphalt Surfaces	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925
Parking Lot	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0300	0.2725	0.2289	1.6400e-003		0.0207	0.0207		0.0207	0.0207		327.0395	327.0395	6.2700e-003	6.0000e-003	328.9829
NaturalGas Unmitigated	0.0300	0.2725	0.2289	1.6400e-003		0.0207	0.0207		0.0207	0.0207		327.0395	327.0395	6.2700e-003	6.0000e-003	328.9829

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	lb/day										lb/day					
City Park	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
General Office Building	142.603	1.5400e-003	0.0140	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.7768	16.7768	3.2000e-004	3.1000e-004	16.8765
General Office Building	285.205	3.0800e-003	0.0280	0.0235	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003		33.5536	33.5536	6.4000e-004	6.2000e-004	33.7530
General Office Building	370.767	4.0000e-003	0.0364	0.0305	2.2000e-004		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003		43.6197	43.6197	8.4000e-004	8.0000e-004	43.8789
General Office Building	655.973	7.0700e-003	0.0643	0.0540	3.9000e-004		4.8900e-003	4.8900e-003		4.8900e-003	4.8900e-003		77.1733	77.1733	1.4800e-003	1.4100e-003	77.6319
General Office Building	85.5616	9.2000e-004	8.3900e-003	7.0500e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.0661	10.0661	1.9000e-004	1.8000e-004	10.1259
Library	1239.73	0.0134	0.1215	0.1021	7.3000e-004		9.2400e-003	9.2400e-003		9.2400e-003	9.2400e-003		145.8501	145.8501	2.8000e-003	2.6700e-003	146.7168
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
Other Non-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
Parking Lot	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

Total		0.0300	0.2725	0.2289	1.6400e-003		0.0207	0.0207		0.0207	0.0207		327.0395	327.0395	6.2700e-003	5.9900e-003	328.9829
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Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	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
General Office Building	0.142603	1.5400e-003	0.0140	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.7768	16.7768	3.2000e-004	3.1000e-004	16.8765
General Office Building	0.285205	3.0800e-003	0.0280	0.0235	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003		33.5536	33.5536	6.4000e-004	6.2000e-004	33.7530
General Office Building	0.370767	4.0000e-003	0.0364	0.0305	2.2000e-004		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003		43.6197	43.6197	8.4000e-004	8.0000e-004	43.8789
General Office Building	0.655973	7.0700e-003	0.0643	0.0540	3.9000e-004		4.8900e-003	4.8900e-003		4.8900e-003	4.8900e-003		77.1733	77.1733	1.4800e-003	1.4100e-003	77.6319
General Office Building	0.0855616	9.2000e-004	8.3900e-003	7.0500e-003	5.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004		10.0661	10.0661	1.9000e-004	1.8000e-004	10.1259
Library	1.23973	0.0134	0.1215	0.1021	7.3000e-004		9.2400e-003	9.2400e-003		9.2400e-003	9.2400e-003		145.8501	145.8501	2.8000e-003	2.6700e-003	146.7168
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
Other Non-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
Parking Lot	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
Total		0.0300	0.2725	0.2289	1.6400e-003		0.0207	0.0207		0.0207	0.0207		327.0395	327.0395	6.2700e-003	5.9900e-003	328.9829

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.6758	1.2800e-003	0.1394	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.2976	0.2976	7.9000e-004		0.3174
Unmitigated	2.6758	1.2800e-003	0.1394	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.2976	0.2976	7.9000e-004		0.3174

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	lb/day										lb/day					
Architectural Coating	0.3366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3263					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0130	1.2800e-003	0.1394	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.2976	0.2976	7.9000e-004		0.3174
Total	2.6758	1.2800e-003	0.1394	1.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.2976	0.2976	7.9000e-004		0.3174

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
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SubCategory	lb/day										lb/day			
	Architectural Coating	0.3366				0.0000	0.0000		0.0000	0.0000		0.0000		
Consumer Products	2.3263				0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Landscaping	0.0130	1.2800e-003	0.1394	1.0000e-005	5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.2976	0.2976	7.9000e-004	0.3174
Total	2.6758	1.2800e-003	0.1394	1.0000e-005	5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004		0.2976	0.2976	7.9000e-004	0.3174

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

**CO HOTSPOT ANALYSIS USING CITY OF CARSON
TRAFFIC STANDARDS**

CO Hotspot Analysis City Traffic Methodology

As explained in Section 4.2.4, to verify that the project would not cause or contribute to a violation of the CO standard, a screening evaluation of the potential for CO hotspots was conducted based on the Traffic Impact Assessment (TIA) (Gibson 2018) results and the Caltrans Institute of Transportation Studies *Transportation Project-Level Carbon Monoxide Protocol* (CO Protocol; Caltrans 1997)

The proposed project's TIA evaluated 31 intersections. As determined by the TIA, the following intersections under the Cumulative Year (2020) operate at Level of Service (LOS) E or worse during the AM or PM peak hours:

- Main St/MLK Jr. St (LOS E in PM)
- Main Street/Del Amo Blvd (LOS F in PM)
- Avalon Blvd/Albetoni St (LOS E in PM)
- Avalon Blvd/Del Amo Blvd (LOSE in AM and F in PM)
- Main St/Albertoni St (LOS E in PM)
- Main St/Victoria St (LOS E in PM)
- Hamilton Ave/Del Amo Blvd (LOS F in AM and PM)
- Hamilton Ave/i-110 SB ramps (LOS F in AM and PM)
- Figueroa St/Del Amo Blvd (LOS F in PM)

According to the CO Protocol, there is a cap on the number of intersections that need to be analyzed for any one project. For a single project with multiple intersections, only the three intersections representing the worst LOS ratings of the project, and, to the extent they are different intersections, the three intersections representing the highest traffic volumes, need be analyzed. For each intersection failing a screening test as described in this protocol, an additional intersection should be analyzed (Caltrans 2010). Based on the CO hotspot screening evaluation the intersections that exceeded the CO hotspot screening criteria shown above all have similar geometries and are signalized. Therefore, the five intersections with an LOS of F and one intersection at LOS E that had a high traffic volume exceeded the CO hotspot screening criteria were evaluated. The potential impact of the project on local CO levels was assessed at this intersection with the Caltrans CL4 interface based on the California LINE Source Dispersion Model (CALINE4), which allows microscale CO concentrations to be estimated along each roadway corridor or near intersections (Caltrans 1998a).

The emissions factor represents the weighted average emissions rate of the local SCAB vehicle fleet expressed in grams per mile per vehicle. Consistent with the TIA, emissions factors for 2020 were used for the analysis. Emissions factors for 2020 were predicted by EMFAC 2014 based on a 5-mile-per-hour average speed for all of the intersections for approach and departure segments. The hourly traffic volume anticipated to travel on each link, in units of vehicles per hour, was based on the traffic report. Modeling assumptions are outlined in Appendix C.

Four receptor locations at each intersection were modeled to determine CO ambient concentrations. A receptor was assumed on the sidewalk at each corner of the modeled intersections, for a total of four receptors adjacent to the intersection, to represent the future possibility of extended outdoor exposure. CO concentrations were modeled at these locations to assess the maximum potential CO exposure that could occur in 2020, which is more conservative than an operational year of 2021. A receptor height of 5.9 feet (1.8 meters) was used in accordance with Caltrans recommendations for all receptor locations (Caltrans 1998b).

The maximum CO concentration measured at the Compton monitoring station over the last 3 years was 6.1 parts per million, which was measured in 2017. The 1-hour average CO concentration was added to the ambient concentration to compare to the CAAQS. The 8-hour average CO concentration was added to the SCAQMD 8-hour CO ambient concentration of 4.6 parts per million for 2020 from the Compton monitoring station to compare to the CAAQS. The CALINE4 predicted CO concentrations are shown in Table C-2. Model output data is provided in Appendix C.

Table C-2
CALINE4 Predicted Carbon Monoxide Concentrations

Intersection	Maximum Modeled Carbon Monoxide Impact (ppm)	
	1-hour	8-hour
Hamilton Ave/Del Amo Blvd	6.5	4.88
Hamilton Ave/i-110 SB ramps	6.5	4.88
Figueroa St/Del Amo Blvd	6.7	5.02
Avalon Boulevard/Albertoni Street	7.0	5.23
Avalon Boulevard/Del Amo Boulevard	7.0	5.23
Main Street & Victoria	6.7	5.02

Source: Caltrans 1998a (CALINE4).

Notes: ppm = parts per million.

As shown in Table C-2, the maximum CO concentration predicted for the 1-hour averaging period at the studied intersections would be 7.0 ppm, which is below the 1-hour CO CAAQS of 20 ppm (CARB 2016c). The maximum predicted 8-hour CO concentration of 5.23 ppm at the studied intersections would be below the 8-hour CO CAAQS of 9.0 ppm (CARB 2016c). Neither the 1-hour nor 8-hour CAAQS would be equaled or exceeded at any of the intersections studied. Accordingly, the project would not cause or contribute to violations of the CAAQS, and would not result in exposure of sensitive receptors to localized high concentrations of CO. As such, impacts would be less than significant to sensitive receptors with regard to potential CO hotspots resulting from project contribution to cumulative traffic-related air quality impacts, and no mitigation is required.