

Ldn Consulting, Inc.

42428 Chisolm Trail, Murrieta CA 92562
www.ldnconsulting.net

phone 760-473-1253
fax 760-689-4943

June 2, 2021

Patrick Tritz
Rexco Development
2518 N. Santiago Blvd.
Orange, CA 92867

RE: Latitude Business Park Development Project Greenhouse Gas (GHG) Update

The purpose of this Greenhouse Gas (GHG) letter is to identify any significant impacts, if any, which may be created from the construction and operation of the proposed Latitude Business Park industrial/warehousing development. The proposed Project consists of developing multiple industrial/manufacturing/warehousing buildings up to 379,882 Square Feet (SF) of industrial usage and up to 159,744 SF of manufacturing usage and up to 535,205 SF warehouse space. The GHG analysis was updated due to the fact that up to 175,000 SF of that warehouse space could contain cold storage. Additionally, the project would install 82 Electric Vehicle (EV) Charging stations spread out over the project site and will only install High Efficiency LED lighting in all the facilities and will implement solid waste recycling program where at least 75% of the waste is diverted from landfills and recycled.

The Project is located on roughly a 75 gross acre site located on the west side of Temescal Canyon Road, between La Gloria Street Road and Tom Barnes Street, in the City of Corona, California. Project access will be provided via multiple points along Tom Barnes Street.

The project would start construction in 2020 and would be completed roughly 18 months after permits are issued and would be fully occupied in 2022.

GHG emissions from daily operations which would include sources such as Area, Energy, Mobile, Waste and Water uses. Area Sources include usage of consumer products, landscaping and architectural coatings as part of regular maintenance. Energy sources would be from uses such as electricity and natural gas. Solid waste generated in the form of trash is also considered as decomposition of organic material breaks down to form GHGs. GHGs from water are also indirectly generated through the conveyance of the resource via pumping throughout the state and as necessary for wastewater treatment. Finally, the project would also generate GHG emissions through the use of carbon fuel burning vehicles for transportation.

GHG impacts related to construction and daily operations were calculated using the latest CalEEMod 2016.3.2 air quality and GHG model, which was developed by Breeze Software for

South Coast Air Quality Management District (SCAQMD) in 2017. The City of Corona recognizes the CalEEMod Version 2016.3.2 as an acceptable model for projects of this nature.

The City of Corona guidelines for determining significance for GHGs under CEQA are identified in the CEQA Thresholds and Screening Tables prepared for the City of Corona by LSA in 2019. Under this methodology, projects could demonstrate compliance with the City's Climate Action Plan (CAP) by indicating how the project would achieve 100 points based on the City's screening checklist guidance. Upon achieving 100 points, the project would equally be screened out with respect to GHG and have a less than significant impact under CEQA. The City's screening tables give initial guidance for mitigating significance though does not specifically include a screening threshold. Also, the City's screening tables are geared more towards residential or commercial uses and provide little support for industrial uses with point schemes left mostly to be determined (TBD) (City of Corona, 2019).

The development of the point system is based on the City's planning that a total of 3,026 new residential units will be needed by 2030 and a total of approximately 4,970,550 square feet of new commercial and industrial buildings will be needed to accommodate anticipated job growth within the City. The CAP estimated that the growth would be 38 percent from the residential sector and 62 percent from commercial/industrial land uses. Using those ratios, the Screening Tables would need to reduce 6,147 MT CO₂e from residential development and 9,943 MT CO₂e from commercial/industrial development by 2030.

The City's CAP indicated that the Screening Tables for new commercial/industrial development would need to reduce 2.00 MT CO₂e per 1,000 gross square feet of commercial/industrial building area. Given this, the project based on its size alone would be required to show a reduction in emission of 2,149.4 MT CO₂e from the 2017 emissions scenario.

The City has also in the past indicated that small projects could alternatively demonstrate that the emissions for the development would not exceed a 3,000 MT for residential and mixed use projects and up to 10,000 MT for industrial projects per draft SCAQMD GHG screening thresholds (SCAQMD, 2008). These thresholds were developed for to identify projects which would have a less than significant GHG impact within the jurisdiction of SCAQMD.

Project Related Construction Emissions

The proposed construction schedule and construction equipment list is identified in Table 1 and is consistent with the original GHG analysis prepared in June 2019. Additionally, if the Project's construction activities are to occur at a later date than analyzed in this report, construction equipment emissions are conservative due to the increase efficiency of construction equipment over time.

Table 1: Proposed Construction Phase and Duration

Equipment Identification	Proposed Start	Proposed Completion	Quantity
Site Preparation	01/01/2020	01/14/2020	
Rubber Tired Dozers			3
Tractors/Loaders/Backhoes			4
Grading	01/15/2020	02/25/2020	
Excavators			2
Graders			1
Rubber Tired Dozers			1
Scrapers			2
Tractors/Loaders/Backhoes			2
Paving	02/26/2020	03/24/2020	
Pavers			2
Paving Equipment			2
Rollers			2
Building Construction	03/25/2020	05/18/2021	
Cranes			1
Forklifts			3
Generator Sets			1
Tractors/Loaders/Backhoes			3
Welders			1
Architectural Coating	08/12/2020	10/05/2021	
Air Compressors			1
This equipment list is based upon equipment inventory and estimates within CalEEMod 2016.3.2.			

The CalEEMod 2016.3.2 model was utilized to determine annual CO₂ emissions for the proposed construction years. The construction emissions as calculated in CalEEMod are reported in Metric Tons and are shown in Table 2. It should be noted that GHGs are analyzed on a Metric Ton per year (MT/year) which is why Annual emissions are estimated.

Table 2: Expected Annual Construction CO₂ Emissions Summary - MT/Year

Year	Bio-CO ₂	NBio-CO ₂	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
2020	0.00	2,080.34	2,080.34	0.18	0.00	2,084.74
2021	0.00	1,973.37	1,973.37	0.13	0.00	1,976.68
Expected Construction emissions are based upon CalEEMod modeling assumptions for equipment and durations listed in Table 1 above. CalEEMod annual output is attached to this letter.						

The City's CAP is based on Screening Tables mostly for operational emissions. This project is an industrial project and this analysis relies on a comparative analysis. The CAP indicates that the comparative analysis should be between the 2017 emissions scenario which is how the Screening Thresholds are derived. The project is required to show a reduction of 2,149.4 MT CO₂e based on the size of this project and the requirement to reduce emissions by 2 MT CO₂e per 1,000 SF of facility size. Since construction emissions are the same between each model the difference in emissions would be zero MT CO₂e and GHG significance would be based on operations alone.

Alternatively, Using SCAQMDs screening threshold for industrial projects, if the project produces fewer than 10,000 MT CO₂e per year during construction, a less than significant GHG impact would be expected from Construction. Since the highest emissions would be expected to be 2,084.74 MT per year, a less than significant GHG impact would be expected from construction.

Project Related Operational Emissions

As previously discussed, emissions generated from Area, Energy, Mobile, Solid Waste and Water uses is also calculated within CalEEMod. The program is largely based on default settings which are automatically populated throughout the model based on the imputed land use. Statewide averages for utility emissions were utilized for the calculations throughout the model. The City of Corona recognizes CalEEMod as the preferred model for GHG emission calculations. The City's CAP requires that the Project would have less than significant GHG impacts if an industrial project either shows a reduction of 100 Point using the City's Screening Tables within the CAP or shows a reduction of 2.00 MT CO₂e per 1,000 SF of commercial/industrial building area from the 2017 emissions scenario in 2030.

Industrial screening methodologies are limited within the City's Screening Tables with many of the suggested mitigation methodologies left as TBD. Based on this, the proposed Project will utilize the later methodology where the Project would be required to show a reduction of 2.00 MT CO₂e per 1,000 SF. Since the modeling for the 2022 scenario was previously prepared and utilized within the Air Quality Study for the Project, the 2022 scenario was utilized. This comparison would be conservative since emissions within CalEEMod for 2017 would be higher.

As noted in the traffic analysis (See Table A of the traffic study), the traffic modeling assumed a higher trip count by modifying actual truck trips to passenger car equivalents (PCE) (LL&G, November 2019). Table A breaks down the actual trips based on the number axels each truck would have. Since GHG impacts are based on truck size (number of axels), this analysis uses actual truck trips based on axels as reported in the project traffic study (See Table A). Additionally, the model was updated to reflect the estimated weekday Vehicle Miles Traveled (VMT) expected by the project (Fehr & Peers, 2019) with a yearly estimate of 10,802,025 VMT.

Project Design Features (PDF)

The Project will provide 82 Level II Electric Vehicle (EV) chargers which will allow for onsite charging of EV which is an incentive to workers onsite to purchase EV.

As background to EVs, a standard petroleum-based car is rated in miles per gallon (MPG), Zero Emission Vehicles (ZEVs) such as EV are typically rated in kilowatt hours per 100 miles traveled. The U.S. Department of Energy has developed a mile per gallon gasoline equivalent unit (MPGe) of 0.337 kWh/100 miles traveled (Department of Energy, 2000). The U.S. Department of Energy estimates that the average fuel economy for ZEVs in 2017 is as high as 136 MPGe for the midsize Hyundai Ioniq, having a range of 124 miles. The higher range Tesla Model S can achieve a range of 335 miles with a fuel efficiency of 102 MPGe. For purposes of analysis within this report, an average fuel efficiency of 100 MPGe is used. Also, EV miles are assumed to offset GHGs from light duty cars.

EV Chargers onsite are expected to be utilized on average over the network of chargers between 2 and 3 hours per day for at least 260 days per work year. Each Level 2 charging Location runs on a 220-volt system and is capable of providing between 6.6 and 19.2 kW of power. Based on this, for a 100 MPGe vehicle, each hour of charging will provide a range of 56.97 miles or 113.94 miles on a 2 hour charge per vehicle. The EV Charges may be utilized more than 2 hours a day and this would be conservative.

Given this design feature to install 82 level II EV charging locations, the chargers would provide enough charge for 9,343.08 zero emission-driven miles per day or 2,429,200.8 miles per a 260 day work year. Based on a review of annual outputs from CalEEMod, for Light Duty cars only reduce emissions by 0.00027 MT CO₂e per mile traveled. Based on this, the installation of 82 Level II charging stations would reduce CO₂e emissions by 0.00027 MT per mile traveled times 2,429,200.8 annual miles or 655.88 MT CO₂e per year.

Also, as a design feature, the project will exclusively utilize high-efficiency indoor and outdoor lighting in all buildings. One example of high-efficiency lighting is light-emitting diode (LED) lighting. LED indoor lighting is 75-90% more efficient than standard lighting. For example: a 10 watt LED bulb replaces a 60 watt standard bulb, which would be 83% more efficient. A typical 15 watt LED bulb has an equivalent rating of a 100 watt standard bulb.

High-efficiency lighting is addressed by both the 2013 Title 24 standards (CEC, 2012) and the 2016 Title 24 standards (CEC, 2015); these standards specifically call out lighting power density requirements for non-residential land uses. However, the lighting power density requirements do not change across the two sets of Title 24 standards. Rather, as illustrated by Table 140.6-B within the 2013 and 2016 Title 24 standards, the applicable requirement is 0.60 watts per

SF. Of note, the default parameters of the version of CalEEMod used in this analysis (along with its predecessor versions) do not account for high-efficiency lighting technologies or the 2016 Title 24. For purposes of this analysis, the design feature to utilize 100% high-efficiency lighting would reduce energy usage from combined indoor and outdoor lighting by at least 75% which modified the intensity within CalEEMod directly.

As a design feature, the project would recycle and divert up at least 75% of solid waste. This requirement would be consistent with California’s Assembly Bill 341 (AB-341) (State of California, 2011). As a design feature, the project would install low flow water fixtures within all restrooms and common areas. Also, the project would reduce outdoor water requirements by utilizing a native plant based landscaping scheme.

The 2022 emissions estimated within design features is shown in Table 3 below. Based on these findings, the Project would generate 9,650.61 MT CO₂e. The CalEEMod output for this scenario is shown in **Attachment A** to this report. Using the City’s CAP, the project would be required to reduce GHG emissions by 2.00 MT CO₂e per 1,000 gross square feet of commercial/industrial building area or 2,149.4 MT CO₂e.

Table 3: Expected Operational Emissions Summary - MT/Year

Year	Bio-CO ₂	NBio-CO ₂	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Area	0.00	0.08	0.08	0.00	0.00	0.09
Energy	0.00	4,478.06	4,478.06	0.16	0.05	4,497.64
Mobile	0.00	4,755.94	4,755.94	0.23	0.00	4,761.64
Waste	237.94	0.00	237.94	14.06	0.00	589.48
Water	78.85	787.29	866.14	8.13	0.20	1,128.59
Total	316.79	10,021.37	10,338.16	22.58	0.25	10,977.44
82 EV Chargers						-655.88
LED Lighting						-523.58
Recycling Program						-147.37
Total Operations with PDFs	316.79	10,021.37	10,338.16	22.58	0.25	9,650.61

Modeling is based on the project design features to include High Efficiency LED lighting and Recycling Diversion onsite of at least 75%. Reductions from PDFs are shown separately.

GHG emission from 2030 including reduction from design features identified above from the Project would be 7,495.78 MT CO₂e and are shown in Table 4. The CalEEMod output for this scenario is shown in **Attachment B** to this report. Therefore, the reduction would be 3,481.66

MT CO₂e which exceeds the requirement to alternatively reach 100 points identified within the CAP. Based on this, the project would have a less than significant GHG impact and would therefore comply with the City’s GHG policies under the CAP without mitigation. Based on this, the project would not be required to implement GHG design features beyond those required by local state and City regulations.

Table 4: Expected Operational Emissions Summary 2030 - MT/Year

Year	Bio-CO ₂	NBio-CO ₂	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Area	0.00	0.08	0.08	0.00	0.00	0.09
Energy	0.00	2929.26	2929.26	0.10	0.04	2942.74
Mobile	0.00	3927.38	3927.38	0.16	0.00	3931.45
Waste	178.45	0.00	178.45	10.55	0.00	442.11
Water	78.85	495.14	573.99	8.12	0.20	835.27
82 EV Chargers						-655.88
Total Operations 2030	257.30	7,351.86	7,609.16	18.93	0.24	7,495.78
Total Operations 2022 (without PDF)	514.60	11,774.38	12,288.98	37.76	0.44	10,977.44
Difference	-257.30	-4,422.52	-4,679.82	-18.83	-0.20	-3,481.66
Modeling results shown for 2030 included PDFs. PDFs include 100% High Efficiency LED lighting, Low Flow water Fixtures and Recycling Diversion onsite of at least 75%						

Alternatively, using SCAQMDs screening threshold for industrial projects, since the project produces fewer than 10,000 MT CO₂e screening threshold for industrial projects per year during operations in 2022, a less than significant GHG impact would be expected from the operations of this project.

Based on the findings, the project would be considered less than significant for GHG emissions. If you have any questions, please do not hesitate to contact me directly at (760) 473-1253.

Sincerely,
 Ldn Consulting, Inc.

Jeremy Loudon

Patrick Tritz
Rexco Development
2518 N. Santiago Blvd.
Orange, CA 92867

Ldn Consulting, Inc.
42428 Chisolm Trail, Murrieta CA 92562
phone 760-473-1253
Fax 760-689-4943

Attachments:

Attachment A: CalEEMod Model Results (2022 Scenario)

Attachment B: CalEEMod Model Results (2030 Scenario)

Sources:

- CEC. (2012). *T24 Standards (2013)*. Retrieved from <http://www.energy.ca.gov/2012publications/CEC-400-2012-004/CEC-400-2012-004-CMF-REV2.pdf>
- CEC. (2015). *T24 Standards (2016)*. Retrieved from <http://www.energy.ca.gov/2015publications/CEC-400-2015-037/CEC-400-2015-037-CMF.pdf>
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- Fehr & Peers. (2019). *Latitude Business Park Project Vehicle Miles Traveled Assessment*.
- LL&G. (November 2019). *General Plan Conformance Traffic Analysis for the Proposed Latitude Business Park Project*.
- SCAQMD. (2008). *Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans*. Retrieved from [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/ghgboardsynopsis.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgboardsynopsis.pdf?sfvrsn=2)
- State of California. (2011). *Assembly Bill No. 341*. Retrieved from https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201120120AB341

Latitude Business Park (2022) - South Coast Air Basin, Annual

Latitude Business Park (2022)
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	205.77	1000sqft	10.50	205,770.00	0
Industrial Park	174.06	1000sqft	10.50	174,060.00	0
Manufacturing	159.74	1000sqft	10.50	159,740.00	0
Refrigerated Warehouse-No Rail	175.00	1000sqft	3.44	175,000.00	0
Unrefrigerated Warehouse-No Rail	360.21	1000sqft	7.06	360,210.00	0
Parking Lot	2,247.00	Space	24.00	898,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	536.32	CH4 Intensity (lb/MW hr)	0.022	N2O Intensity (lb/MW hr)	0.005

1.3 User Entered Comments & Non-Default Data

Latitude Business Park (2022) - South Coast Air Basin, Annual

Project Characteristics - RPS 2022 included

Land Use - site ac

Construction Phase - CS

Trips and VMT -

Architectural Coating -

Vehicle Trips - Default

Area Coating - sf

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 4

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix - adjusted to fit TS... General Industrial, Industrial Park set to default as TS doesn't estimate

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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
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tblConstructionPhase	NumDays	40.00	10.00
tblConstructionPhase	NumDays	110.00	30.00
tblConstructionPhase	NumDays	75.00	20.00
tblConstructionPhase	NumDays	1,110.00	400.00
tblConstructionPhase	NumDays	75.00	300.00
tblFleetMix	HHD	0.03	0.01
tblFleetMix	HHD	0.03	0.01
tblFleetMix	HHD	0.03	0.09
tblFleetMix	HHD	0.03	0.09
tblFleetMix	HHD	0.03	0.09
tblFleetMix	LDT2	0.20	0.24

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tblFleetMix	LDT2	0.20	0.24
tblFleetMix	LDT2	0.20	0.08
tblFleetMix	LDT2	0.20	0.08
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tblFleetMix	LHD2	5.8630e-003	2.5000e-003
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tblFleetMix	MHD	0.02	0.04
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tblLandUse	LotAcreage	3.67	10.50
tblLandUse	LotAcreage	4.02	3.44
tblLandUse	LotAcreage	8.27	7.06
tblLandUse	LotAcreage	20.22	24.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	702.44	536.32
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	CW_TL	16.60	19.02
tblVehicleTrips	CW_TL	16.60	19.02
tblVehicleTrips	CW_TL	16.60	19.02
tblVehicleTrips	CW_TL	16.60	19.02

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tblVehicleTrips	CW_TL	16.60	19.02
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
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tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.97	4.96
tblVehicleTrips	WD_TR	6.83	3.37
tblVehicleTrips	WD_TR	3.82	3.93
tblVehicleTrips	WD_TR	1.68	1.74
tblVehicleTrips	WD_TR	1.68	1.74

2.0 Emissions Summary

Latitude Business Park (2022) - South Coast Air Basin, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	1.4005	0.2356
2	4-1-2020	6-30-2020	2.0355	1.4263
3	7-1-2020	9-30-2020	2.7224	2.0750
4	10-1-2020	12-31-2020	3.3063	2.6324
5	1-1-2021	3-31-2021	3.0378	2.4477
6	4-1-2021	6-30-2021	3.0499	2.4533
7	7-1-2021	9-30-2021	3.0835	2.4803
		Highest	3.3063	2.6324

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.4564	3.9000e-004	0.0425	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0879
Energy	0.1201	1.0916	0.9169	6.5500e-003		0.0830	0.0830		0.0830	0.0830	0.0000	4,478.0648	4,478.0648	0.1577	0.0525	4,497.6396
Mobile	0.8153	6.0530	12.0934	0.0512	4.1297	0.0423	4.1720	1.1094	0.0397	1.1491	0.0000	4,755.9449	4,755.9449	0.2277	0.0000	4,761.6363
Waste						0.0000	0.0000		0.0000	0.0000	237.9379	0.0000	237.9379	14.0617	0.0000	589.4810
Water						0.0000	0.0000		0.0000	0.0000	78.8512	787.2912	866.1424	8.1311	0.1986	1,128.5927
Total	5.3918	7.1450	13.0528	0.0578	4.1297	0.1255	4.2551	1.1094	0.1228	1.2322	316.7891	10,021.3832	10,338.1723	22.5784	0.2510	10,977.4375

Latitude Business Park (2022) - South Coast Air Basin, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.4564	3.9000e-004	0.0425	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0879
Energy	0.1201	1.0916	0.9169	6.5500e-003		0.0830	0.0830		0.0830	0.0830	0.0000	3,956.4719	3,956.4719	0.1363	0.0476	3,974.0627
Mobile	0.8153	6.0530	12.0934	0.0512	4.1297	0.0423	4.1720	1.1094	0.0397	1.1491	0.0000	4,755.9449	4,755.9449	0.2277	0.0000	4,761.6363
Waste						0.0000	0.0000		0.0000	0.0000	178.4534	0.0000	178.4534	10.5463	0.0000	442.1108
Water						0.0000	0.0000		0.0000	0.0000	78.8512	787.2912	866.1424	8.1311	0.1986	1,128.5927
Total	5.3918	7.1450	13.0528	0.0578	4.1297	0.1255	4.2551	1.1094	0.1228	1.2322	257.3046	9,499.7903	9,757.0949	19.0416	0.2462	10,306.4904

	ROG	NOx	CO	SO2	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	18.78	5.20	5.62	15.66	1.94	6.11

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/14/2020	5	10	
2	Grading	Grading	1/15/2020	2/25/2020	5	30	
3	Paving	Paving	2/26/2020	3/24/2020	5	20	
4	Building Construction	Building Construction	3/25/2020	10/5/2021	5	400	
5	Architectural Coating	Architectural Coating	8/12/2020	10/5/2021	5	300	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 24

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,612,170; Non-Residential Outdoor: 537,390; Striped Parking Area: 53,928 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	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
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
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	829.00	323.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	166.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	0.0204	0.2121	0.1076	1.9000e-004	0.0903	0.0110	0.1013	0.0497	0.0101	0.0598	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	4.0000e-004	3.1000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8898	0.8898	3.0000e-005	0.0000	0.8904
Total	4.0000e-004	3.1000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8898	0.8898	3.0000e-005	0.0000	0.8904

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0101	0.1043	1.9000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	2.3300e-003	0.0101	0.1043	1.9000e-004	0.0903	3.1000e-004	0.0906	0.0497	3.1000e-004	0.0500	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	4.0000e-004	3.1000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8898	0.8898	3.0000e-005	0.0000	0.8904
Total	4.0000e-004	3.1000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8898	0.8898	3.0000e-005	0.0000	0.8904

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872
Total	0.0668	0.7530	0.4794	9.3000e-004	0.1301	0.0326	0.1627	0.0540	0.0300	0.0840	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872

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3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3400e-003	1.0300e-003	0.0114	3.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9659	2.9659	9.0000e-005	0.0000	2.9680
Total	1.3400e-003	1.0300e-003	0.0114	3.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9659	2.9659	9.0000e-005	0.0000	2.9680

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.0495	0.4950	9.3000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871
Total	0.0114	0.0495	0.4950	9.3000e-004	0.1301	1.5200e-003	0.1316	0.0540	1.5200e-003	0.0555	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871

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3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3400e-003	1.0300e-003	0.0114	3.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9659	2.9659	9.0000e-005	0.0000	2.9680
Total	1.3400e-003	1.0300e-003	0.0114	3.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9659	2.9659	9.0000e-005	0.0000	2.9680

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0450	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902

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3.4 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	6.7000e-004	5.1000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4829	1.4829	4.0000e-005	0.0000	1.4840
Total	6.7000e-004	5.1000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4829	1.4829	4.0000e-005	0.0000	1.4840

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-003	0.0122	0.1730	2.3000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0342	0.0122	0.1730	2.3000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901

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3.4 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	6.7000e-004	5.1000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4829	1.4829	4.0000e-005	0.0000	1.4840
Total	6.7000e-004	5.1000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4829	1.4829	4.0000e-005	0.0000	1.4840

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2141	1.9378	1.7017	2.7200e-003		0.1128	0.1128		0.1061	0.1061	0.0000	233.9261	233.9261	0.0571	0.0000	235.3528
Total	0.2141	1.9378	1.7017	2.7200e-003		0.1128	0.1128		0.1061	0.1061	0.0000	233.9261	233.9261	0.0571	0.0000	235.3528

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3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1104	3.4981	0.8821	8.2300e-003	0.2056	0.0171	0.2227	0.0593	0.0164	0.0757	0.0000	798.1130	798.1130	0.0533	0.0000	799.4446
Worker	0.3727	0.2869	3.1765	9.1600e-003	0.9186	7.1400e-003	0.9258	0.2440	6.5800e-003	0.2505	0.0000	827.7696	827.7696	0.0238	0.0000	828.3655
Total	0.4831	3.7850	4.0585	0.0174	1.1242	0.0243	1.1485	0.3033	0.0230	0.3262	0.0000	1,625.8826	1,625.8826	0.0771	0.0000	1,627.8100

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0331	0.2257	1.7635	2.7200e-003		4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	233.9258	233.9258	0.0571	0.0000	235.3526
Total	0.0331	0.2257	1.7635	2.7200e-003		4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	233.9258	233.9258	0.0571	0.0000	235.3526

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3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1104	3.4981	0.8821	8.2300e-003	0.2056	0.0171	0.2227	0.0593	0.0164	0.0757	0.0000	798.1130	798.1130	0.0533	0.0000	799.4446
Worker	0.3727	0.2869	3.1765	9.1600e-003	0.9186	7.1400e-003	0.9258	0.2440	6.5800e-003	0.2505	0.0000	827.7696	827.7696	0.0238	0.0000	828.3655
Total	0.4831	3.7850	4.0585	0.0174	1.1242	0.0243	1.1485	0.3033	0.0230	0.3262	0.0000	1,625.8826	1,625.8826	0.0771	0.0000	1,627.8100

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1882	1.7258	1.6409	2.6700e-003		0.0949	0.0949		0.0892	0.0892	0.0000	229.3209	229.3209	0.0553	0.0000	230.7040
Total	0.1882	1.7258	1.6409	2.6700e-003		0.0949	0.0949		0.0892	0.0892	0.0000	229.3209	229.3209	0.0553	0.0000	230.7040

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3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0919	3.1104	0.7861	8.0000e-003	0.2015	6.3400e-003	0.2079	0.0581	6.0600e-003	0.0642	0.0000	776.4226	776.4226	0.0501	0.0000	777.6739
Worker	0.3411	0.2532	2.8642	8.6800e-003	0.9004	6.7900e-003	0.9072	0.2391	6.2500e-003	0.2454	0.0000	785.1339	785.1339	0.0211	0.0000	785.6621
Total	0.4330	3.3636	3.6503	0.0167	1.1020	0.0131	1.1151	0.2973	0.0123	0.3096	0.0000	1,561.5565	1,561.5565	0.0712	0.0000	1,563.3360

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0325	0.2212	1.7286	2.6700e-003		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	229.3206	229.3206	0.0553	0.0000	230.7038
Total	0.0325	0.2212	1.7286	2.6700e-003		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	229.3206	229.3206	0.0553	0.0000	230.7038

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3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0919	3.1104	0.7861	8.0000e-003	0.2015	6.3400e-003	0.2079	0.0581	6.0600e-003	0.0642	0.0000	776.4226	776.4226	0.0501	0.0000	777.6739
Worker	0.3411	0.2532	2.8642	8.6800e-003	0.9004	6.7900e-003	0.9072	0.2391	6.2500e-003	0.2454	0.0000	785.1339	785.1339	0.0211	0.0000	785.6621
Total	0.4330	3.3636	3.6503	0.0167	1.1020	0.0131	1.1151	0.2973	0.0123	0.3096	0.0000	1,561.5565	1,561.5565	0.0712	0.0000	1,563.3360

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7362					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.0859	0.0934	1.5000e-004		5.6600e-003	5.6600e-003		5.6600e-003	5.6600e-003	0.0000	13.0216	13.0216	1.0100e-003	0.0000	13.0468
Total	1.7486	0.0859	0.0934	1.5000e-004		5.6600e-003	5.6600e-003		5.6600e-003	5.6600e-003	0.0000	13.0216	13.0216	1.0100e-003	0.0000	13.0468

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3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0377	0.0290	0.3212	9.3000e-004	0.0929	7.2000e-004	0.0936	0.0247	6.6000e-004	0.0253	0.0000	83.6974	83.6974	2.4100e-003	0.0000	83.7576
Total	0.0377	0.0290	0.3212	9.3000e-004	0.0929	7.2000e-004	0.0936	0.0247	6.6000e-004	0.0253	0.0000	83.6974	83.6974	2.4100e-003	0.0000	83.7576

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7362					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5200e-003	6.5700e-003	0.0935	1.5000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	13.0216	13.0216	1.0100e-003	0.0000	13.0468
Total	1.7378	6.5700e-003	0.0935	1.5000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	13.0216	13.0216	1.0100e-003	0.0000	13.0468

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3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0377	0.0290	0.3212	9.3000e-004	0.0929	7.2000e-004	0.0936	0.0247	6.6000e-004	0.0253	0.0000	83.6974	83.6974	2.4100e-003	0.0000	83.7576
Total	0.0377	0.0290	0.3212	9.3000e-004	0.0929	7.2000e-004	0.0936	0.0247	6.6000e-004	0.0253	0.0000	83.6974	83.6974	2.4100e-003	0.0000	83.7576

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.3704					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.1512	0.1799	2.9000e-004		9.3200e-003	9.3200e-003		9.3200e-003	9.3200e-003	0.0000	25.2772	25.2772	1.7300e-003	0.0000	25.3206
Total	3.3920	0.1512	0.1799	2.9000e-004		9.3200e-003	9.3200e-003		9.3200e-003	9.3200e-003	0.0000	25.2772	25.2772	1.7300e-003	0.0000	25.3206

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3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0683	0.0507	0.5735	1.7400e-003	0.1803	1.3600e-003	0.1817	0.0479	1.2500e-003	0.0491	0.0000	157.2162	157.2162	4.2300e-003	0.0000	157.3220
Total	0.0683	0.0507	0.5735	1.7400e-003	0.1803	1.3600e-003	0.1817	0.0479	1.2500e-003	0.0491	0.0000	157.2162	157.2162	4.2300e-003	0.0000	157.3220

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.3704					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9400e-003	0.0128	0.1814	2.9000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	25.2772	25.2772	1.7300e-003	0.0000	25.3206
Total	3.3733	0.0128	0.1814	2.9000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	25.2772	25.2772	1.7300e-003	0.0000	25.3206

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3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0683	0.0507	0.5735	1.7400e-003	0.1803	1.3600e-003	0.1817	0.0479	1.2500e-003	0.0491	0.0000	157.2162	157.2162	4.2300e-003	0.0000	157.3220
Total	0.0683	0.0507	0.5735	1.7400e-003	0.1803	1.3600e-003	0.1817	0.0479	1.2500e-003	0.0491	0.0000	157.2162	157.2162	4.2300e-003	0.0000	157.3220

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Latitude Business Park (2022) - South Coast Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8153	6.0530	12.0934	0.0512	4.1297	0.0423	4.1720	1.1094	0.0397	1.1491	0.0000	4,755.944 9	4,755.944 9	0.2277	0.0000	4,761.636 3
Unmitigated	0.8153	6.0530	12.0934	0.0512	4.1297	0.0423	4.1720	1.1094	0.0397	1.1491	0.0000	4,755.944 9	4,755.944 9	0.2277	0.0000	4,761.636 3

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	1,020.62	0.00	0.00	3,581,583	3,581,583
Industrial Park	586.58	0.00	0.00	1,848,635	1,848,635
Manufacturing	627.78	0.00	0.00	2,203,015	2,203,015
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	304.50	0.00	0.00	1,037,552	1,037,552
Unrefrigerated Warehouse-No Rail	626.77	0.00	0.00	2,135,638	2,135,638
Total	3,166.25	0.00	0.00	10,806,424	10,806,424

4.3 Trip Type Information

Latitude Business Park (2022) - South Coast Air Basin, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	19.02	8.40	6.90	59.00	28.00	13.00	92	5	3
Industrial Park	19.02	8.40	6.90	59.00	28.00	13.00	79	19	2
Manufacturing	19.02	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	19.02	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	19.02	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.552111	0.043066	0.242894	0.118512	0.015605	0.002500	0.005000	0.010000	0.002087	0.001818	0.004803	0.000708	0.000896
Industrial Park	0.552111	0.043066	0.242894	0.118512	0.015605	0.002500	0.005000	0.010000	0.002087	0.001818	0.004803	0.000708	0.000896
Manufacturing	0.552111	0.043066	0.082491	0.118512	0.015605	0.049000	0.041000	0.087900	0.002087	0.001818	0.004803	0.000708	0.000896
Parking Lot	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Refrigerated Warehouse-No Rail	0.552111	0.043066	0.082491	0.118512	0.015605	0.049000	0.041000	0.087900	0.002087	0.001818	0.004803	0.000708	0.000896
Unrefrigerated Warehouse-No Rail	0.552111	0.043066	0.082491	0.118512	0.015605	0.049000	0.041000	0.087900	0.002087	0.001818	0.004803	0.000708	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Latitude Business Park (2022) - South Coast Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	2,768.1327	2,768.1327	0.1136	0.0258	2,778.6619
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	3,289.7256	3,289.7256	0.1350	0.0307	3,302.2387
NaturalGas Mitigated	0.1201	1.0916	0.9169	6.5500e-003			0.0830	0.0830		0.0830	0.0830	1,188.3391	1,188.3391	0.0228	0.0218	1,195.4008
NaturalGas Unmitigated	0.1201	1.0916	0.9169	6.5500e-003			0.0830	0.0830		0.0830	0.0830	1,188.3391	1,188.3391	0.0228	0.0218	1,195.4008

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	6.68547e+006	0.0361	0.3277	0.2753	1.9700e-003		0.0249	0.0249		0.0249	0.0249	0.0000	356.7620	356.7620	6.8400e-003	6.5400e-003	358.8821
Industrial Park	603988	3.2600e-003	0.0296	0.0249	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.2311	32.2311	6.2000e-004	5.9000e-004	32.4226
Manufacturing	5.18995e+006	0.0280	0.2544	0.2137	1.5300e-003		0.0193	0.0193		0.0193	0.0193	0.0000	276.9556	276.9556	5.3100e-003	5.0800e-003	278.6014
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
Refrigerated Warehouse-No Rail	9.058e+006	0.0488	0.4440	0.3730	2.6600e-003		0.0338	0.0338		0.0338	0.0338	0.0000	483.3694	483.3694	9.2600e-003	8.8600e-003	486.2418
Unrefrigerated Warehouse-No Rail	731226	3.9400e-003	0.0358	0.0301	2.2000e-004		2.7200e-003	2.7200e-003		2.7200e-003	2.7200e-003	0.0000	39.0210	39.0210	7.5000e-004	7.2000e-004	39.2529
Total		0.1201	1.0916	0.9169	6.5600e-003		0.0830	0.0830		0.0830	0.0830	0.0000	1,188.3391	1,188.3391	0.0228	0.0218	1,195.4008

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	6.68547e+006	0.0361	0.3277	0.2753	1.9700e-003		0.0249	0.0249		0.0249	0.0249	0.0000	356.7620	356.7620	6.8400e-003	6.5400e-003	358.8821
Industrial Park	603988	3.2600e-003	0.0296	0.0249	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.2311	32.2311	6.2000e-004	5.9000e-004	32.4226
Manufacturing	5.18995e+006	0.0280	0.2544	0.2137	1.5300e-003		0.0193	0.0193		0.0193	0.0193	0.0000	276.9556	276.9556	5.3100e-003	5.0800e-003	278.6014
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
Refrigerated Warehouse-No Rail	9.058e+006	0.0488	0.4440	0.3730	2.6600e-003		0.0338	0.0338		0.0338	0.0338	0.0000	483.3694	483.3694	9.2600e-003	8.8600e-003	486.2418
Unrefrigerated Warehouse-No Rail	731226	3.9400e-003	0.0358	0.0301	2.2000e-004		2.7200e-003	2.7200e-003		2.7200e-003	2.7200e-003	0.0000	39.0210	39.0210	7.5000e-004	7.2000e-004	39.2529
Total		0.1201	1.0916	0.9169	6.5600e-003		0.0830	0.0830		0.0830	0.0830	0.0000	1,188.3391	1,188.3391	0.0228	0.0218	1,195.4008

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	2.08857e+006	508.0867	0.0208	4.7400e-003	510.0193
Industrial Park	1.65705e+006	403.1119	0.0165	3.7600e-003	404.6453
Manufacturing	1.62136e+006	394.4296	0.0162	3.6800e-003	395.9299
Parking Lot	314580	76.5281	3.1400e-003	7.1000e-004	76.8192
Refrigerated Warehouse-No Rail	6.99125e+006	1,700.7660	0.0698	0.0159	1,707.2352
Unrefrigerated Warehouse-No Rail	850096	206.8033	8.4800e-003	1.9300e-003	207.5899
Total		3,289.7256	0.1350	0.0307	3,302.2387

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.63639e+006	398.0847	0.0163	3.7100e-003	399.5989
Industrial Park	1.17926e+006	286.8785	0.0118	2.6700e-003	287.9697
Manufacturing	1.27033e+006	309.0346	0.0127	2.8800e-003	310.2101
Parking Lot	78645	19.1320	7.8000e-004	1.8000e-004	19.2048
Refrigerated Warehouse-No Rail	6.68019e+006	1,625.0936	0.0667	0.0152	1,631.2750
Unrefrigerated Warehouse-No Rail	534011	129.9093	5.3300e-003	1.2100e-003	130.4034
Total		2,768.1327	0.1136	0.0258	2,778.6619

6.0 Area Detail

6.1 Mitigation Measures Area

Latitude Business Park (2022) - South Coast Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.4564	3.9000e-004	0.0425	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0879
Unmitigated	4.4564	3.9000e-004	0.0425	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0879

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5107					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9500e-003	3.9000e-004	0.0425	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0879
Total	4.4564	3.9000e-004	0.0425	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0879

Latitude Business Park (2022) - South Coast Air Basin, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5107					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9500e-003	3.9000e-004	0.0425	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0879
Total	4.4564	3.9000e-004	0.0425	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0879

7.0 Water Detail

7.1 Mitigation Measures Water

Latitude Business Park (2022) - South Coast Air Basin, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	866.1424	8.1311	0.1986	1,128.5927
Unmitigated	866.1424	8.1311	0.1986	1,128.5927

Latitude Business Park (2022) - South Coast Air Basin, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	47.5843 / 0	165.8257	1.5567	0.0380	216.0726
Industrial Park	40.2514 / 0	140.2713	1.3168	0.0322	182.7749
Manufacturing	36.9399 / 0	128.7311	1.2085	0.0295	167.7380
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	40.4688 / 0	141.0288	1.3239	0.0323	183.7620
Unrefrigerated Warehouse-No Rail	83.2986 / 0	290.2856	2.7251	0.0666	378.2452
Total		866.1424	8.1311	0.1986	1,128.5927

Latitude Business Park (2022) - South Coast Air Basin, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	47.5843 / 0	165.8257	1.5567	0.0380	216.0726
Industrial Park	40.2514 / 0	140.2713	1.3168	0.0322	182.7749
Manufacturing	36.9399 / 0	128.7311	1.2085	0.0295	167.7380
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	40.4688 / 0	141.0288	1.3239	0.0323	183.7620
Unrefrigerated Warehouse-No Rail	83.2986 / 0	290.2856	2.7251	0.0666	378.2452
Total		866.1424	8.1311	0.1986	1,128.5927

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

Latitude Business Park (2022) - South Coast Air Basin, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	178.4534	10.5463	0.0000	442.1108
Unmitigated	237.9379	14.0617	0.0000	589.4810

Latitude Business Park (2022) - South Coast Air Basin, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	255.15	51.7931	3.0609	0.0000	128.3153
Industrial Park	215.83	43.8115	2.5892	0.0000	108.5412
Manufacturing	198.08	40.2085	2.3763	0.0000	99.6147
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	164.5	33.3920	1.9734	0.0000	82.7273
Unrefrigerated Warehouse-No Rail	338.6	68.7327	4.0620	0.0000	170.2825
Total		237.9379	14.0617	0.0000	589.4810

Latitude Business Park (2022) - South Coast Air Basin, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	191.363	38.8449	2.2957	0.0000	96.2365
Industrial Park	161.873	32.8587	1.9419	0.0000	81.4059
Manufacturing	148.56	30.1563	1.7822	0.0000	74.7111
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	123.375	25.0440	1.4801	0.0000	62.0455
Unrefrigerated Warehouse-No Rail	253.95	51.5496	3.0465	0.0000	127.7118
Total		178.4534	10.5463	0.0000	442.1108

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

Latitude Business Park (2022) - South Coast Air Basin, Annual

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

Equipment Type	Number
----------------	--------

11.0 Vegetation

Latitude Business Park (2030) - South Coast Air Basin, Annual

Latitude Business Park (2030)
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	205.77	1000sqft	10.50	205,770.00	0
Industrial Park	174.06	1000sqft	10.50	174,060.00	0
Manufacturing	159.74	1000sqft	10.50	159,740.00	0
Refrigerated Warehouse-No Rail	175.00	1000sqft	3.44	175,000.00	0
Unrefrigerated Warehouse-No Rail	360.21	1000sqft	7.06	360,210.00	0
Parking Lot	2,247.00	Space	24.00	898,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	337.3	CH4 Intensity (lb/MW hr)	0.014	N2O Intensity (lb/MW hr)	0.003

1.3 User Entered Comments & Non-Default Data

Latitude Business Park (2030) - South Coast Air Basin, Annual

Project Characteristics - RPS 2030 included

Land Use - site ac

Construction Phase - CS

Trips and VMT -

Architectural Coating -

Vehicle Trips - Default

Area Coating - sf

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 4

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix - adjusted to fit TS... General Industrial, Industrial Park set to default as TS doesn't estimate

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	75.00	20.00
tblConstructionPhase	NumDays	1,110.00	400.00
tblConstructionPhase	NumDays	75.00	300.00
tblFleetMix	HHD	0.03	0.01
tblFleetMix	HHD	0.03	0.01
tblFleetMix	HHD	0.03	0.09
tblFleetMix	HHD	0.03	0.03
tblFleetMix	HHD	0.03	0.09
tblFleetMix	HHD	0.03	0.09

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tblFleetMix	LDA	0.55	0.55
tblFleetMix	LDA	0.55	0.55
tblFleetMix	LDA	0.55	0.55
tblFleetMix	LDA	0.55	0.55
tblFleetMix	LDA	0.55	0.55
tblFleetMix	LDA	0.55	0.55
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.21	0.24
tblFleetMix	LDT2	0.21	0.24
tblFleetMix	LDT2	0.21	0.08
tblFleetMix	LDT2	0.21	0.20
tblFleetMix	LDT2	0.21	0.08
tblFleetMix	LDT2	0.21	0.08
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD1	0.01	0.02
tblFleetMix	LHD2	5.7730e-003	2.5000e-003
tblFleetMix	LHD2	5.7730e-003	2.5000e-003
tblFleetMix	LHD2	5.7730e-003	0.05

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tblFleetMix	LHD2	5.7730e-003	5.8630e-003
tblFleetMix	LHD2	5.7730e-003	0.05
tblFleetMix	LHD2	5.7730e-003	0.05
tblFleetMix	MCY	4.8540e-003	4.8030e-003
tblFleetMix	MCY	4.8540e-003	4.8030e-003
tblFleetMix	MCY	4.8540e-003	4.8030e-003
tblFleetMix	MCY	4.8540e-003	4.8030e-003
tblFleetMix	MCY	4.8540e-003	4.8030e-003
tblFleetMix	MCY	4.8540e-003	4.8030e-003
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MDV	0.11	0.12
tblFleetMix	MH	7.6000e-004	8.9600e-004
tblFleetMix	MH	7.6000e-004	8.9600e-004
tblFleetMix	MH	7.6000e-004	8.9600e-004
tblFleetMix	MH	7.6000e-004	8.9600e-004
tblFleetMix	MH	7.6000e-004	8.9600e-004
tblFleetMix	MH	7.6000e-004	8.9600e-004
tblFleetMix	MHD	0.02	5.0000e-003
tblFleetMix	MHD	0.02	5.0000e-003
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.04
tblFleetMix	MHD	0.02	0.04

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tblFleetMix	OBUS	2.1680e-003	2.0870e-003
tblFleetMix	OBUS	2.1680e-003	2.0870e-003
tblFleetMix	OBUS	2.1680e-003	2.0870e-003
tblFleetMix	OBUS	2.1680e-003	2.0870e-003
tblFleetMix	OBUS	2.1680e-003	2.0870e-003
tblFleetMix	OBUS	2.1680e-003	2.0870e-003
tblFleetMix	SBUS	7.1700e-004	7.0800e-004
tblFleetMix	SBUS	7.1700e-004	7.0800e-004
tblFleetMix	SBUS	7.1700e-004	7.0800e-004
tblFleetMix	SBUS	7.1700e-004	7.0800e-004
tblFleetMix	SBUS	7.1700e-004	7.0800e-004
tblFleetMix	SBUS	7.1700e-004	7.0800e-004
tblFleetMix	SBUS	7.1700e-004	7.0800e-004
tblFleetMix	UBUS	1.4900e-003	1.8180e-003
tblFleetMix	UBUS	1.4900e-003	1.8180e-003
tblFleetMix	UBUS	1.4900e-003	1.8180e-003
tblFleetMix	UBUS	1.4900e-003	1.8180e-003
tblFleetMix	UBUS	1.4900e-003	1.8180e-003
tblFleetMix	UBUS	1.4900e-003	1.8180e-003
tblLandUse	LotAcreage	4.72	10.50
tblLandUse	LotAcreage	4.00	10.50
tblLandUse	LotAcreage	3.67	10.50
tblLandUse	LotAcreage	4.02	3.44
tblLandUse	LotAcreage	8.27	7.06
tblLandUse	LotAcreage	20.22	24.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	702.44	337.3
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003

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tblVehicleTrips	CW_TL	16.60	19.02
tblVehicleTrips	CW_TL	16.60	19.02
tblVehicleTrips	CW_TL	16.60	19.02
tblVehicleTrips	CW_TL	16.60	19.02
tblVehicleTrips	CW_TL	16.60	19.02
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.97	4.96
tblVehicleTrips	WD_TR	6.83	3.37
tblVehicleTrips	WD_TR	3.82	3.93
tblVehicleTrips	WD_TR	1.68	1.74
tblVehicleTrips	WD_TR	1.68	1.74

2.0 Emissions Summary

Latitude Business Park (2030) - South Coast Air Basin, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	1.4005	0.2356
2	4-1-2020	6-30-2020	2.0355	1.4263
3	7-1-2020	9-30-2020	2.7224	2.0750
4	10-1-2020	12-31-2020	3.3063	2.6324
5	1-1-2021	3-31-2021	3.0378	2.4477
6	4-1-2021	6-30-2021	3.0499	2.4533
7	7-1-2021	9-30-2021	3.0835	2.4803
		Highest	3.3063	2.6324

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.4563	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.1000e-004	0.0000	0.0878
Energy	0.1201	1.0916	0.9169	6.5500e-003		0.0830	0.0830		0.0830	0.0830	0.0000	3,257.2988	3,257.2988	0.1087	0.0402	3,271.9911
Mobile	0.5420	3.5727	7.9394	0.0420	4.1285	0.0257	4.1542	1.1089	0.0240	1.1329	0.0000	3,927.3789	3,927.3789	0.1629	0.0000	3,931.4506
Waste						0.0000	0.0000		0.0000	0.0000	237.9379	0.0000	237.9379	14.0617	0.0000	589.4810
Water						0.0000	0.0000		0.0000	0.0000	78.8512	495.1397	573.9909	8.1193	0.1956	835.2728
Total	5.1184	4.6647	8.8985	0.0486	4.1285	0.1088	4.2373	1.1089	0.1071	1.2160	316.7891	7,679.8998	7,996.6889	22.4528	0.2358	8,628.2832

Latitude Business Park (2030) - South Coast Air Basin, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.4563	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.1000e-004	0.0000	0.0878
Energy	0.1201	1.0916	0.9169	6.5500e-003		0.0830	0.0830		0.0830	0.0830	0.0000	2,929.2609	2,929.2609	0.0950	0.0373	2,942.7433
Mobile	0.5420	3.5727	7.9394	0.0420	4.1285	0.0257	4.1542	1.1089	0.0240	1.1329	0.0000	3,927.3789	3,927.3789	0.1629	0.0000	3,931.4506
Waste						0.0000	0.0000		0.0000	0.0000	178.4534	0.0000	178.4534	10.5463	0.0000	442.1108
Water						0.0000	0.0000		0.0000	0.0000	78.8512	495.1397	573.9909	8.1193	0.1956	835.2728
Total	5.1184	4.6647	8.8985	0.0486	4.1285	0.1088	4.2373	1.1089	0.1071	1.2160	257.3046	7,351.8619	7,609.1666	18.9237	0.2329	8,151.6652

	ROG	NOx	CO	SO2	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	18.78	4.27	4.85	15.72	1.24	5.52

3.0 Construction Detail

Construction Phase

Latitude Business Park (2030) - South Coast Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2020	1/14/2020	5	10	
2	Grading	Grading	1/15/2020	2/25/2020	5	30	
3	Paving	Paving	2/26/2020	3/24/2020	5	20	
4	Building Construction	Building Construction	3/25/2020	10/5/2021	5	400	
5	Architectural Coating	Architectural Coating	8/12/2020	10/5/2021	5	300	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 24

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,612,170; Non-Residential Outdoor: 537,390; Striped Parking Area: 53,928 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	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
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
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	829.00	323.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	166.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.2121	0.1076	1.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	0.0204	0.2121	0.1076	1.9000e-004	0.0903	0.0110	0.1013	0.0497	0.0101	0.0598	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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3.2 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	4.0000e-004	3.1000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8898	0.8898	3.0000e-005	0.0000	0.8904
Total	4.0000e-004	3.1000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8898	0.8898	3.0000e-005	0.0000	0.8904

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0101	0.1043	1.9000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505
Total	2.3300e-003	0.0101	0.1043	1.9000e-004	0.0903	3.1000e-004	0.0906	0.0497	3.1000e-004	0.0500	0.0000	16.7153	16.7153	5.4100e-003	0.0000	16.8505

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3.2 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	4.0000e-004	3.1000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8898	0.8898	3.0000e-005	0.0000	0.8904
Total	4.0000e-004	3.1000e-004	3.4100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8898	0.8898	3.0000e-005	0.0000	0.8904

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0668	0.7530	0.4794	9.3000e-004		0.0326	0.0326		0.0300	0.0300	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872
Total	0.0668	0.7530	0.4794	9.3000e-004	0.1301	0.0326	0.1627	0.0540	0.0300	0.0840	0.0000	81.7264	81.7264	0.0264	0.0000	82.3872

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3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3400e-003	1.0300e-003	0.0114	3.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9659	2.9659	9.0000e-005	0.0000	2.9680
Total	1.3400e-003	1.0300e-003	0.0114	3.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9659	2.9659	9.0000e-005	0.0000	2.9680

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.0495	0.4950	9.3000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871
Total	0.0114	0.0495	0.4950	9.3000e-004	0.1301	1.5200e-003	0.1316	0.0540	1.5200e-003	0.0555	0.0000	81.7263	81.7263	0.0264	0.0000	82.3871

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3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3400e-003	1.0300e-003	0.0114	3.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9659	2.9659	9.0000e-005	0.0000	2.9680
Total	1.3400e-003	1.0300e-003	0.0114	3.0000e-005	3.2900e-003	3.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.9659	2.9659	9.0000e-005	0.0000	2.9680

3.4 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0450	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902

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3.4 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	6.7000e-004	5.1000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4829	1.4829	4.0000e-005	0.0000	1.4840
Total	6.7000e-004	5.1000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4829	1.4829	4.0000e-005	0.0000	1.4840

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-003	0.0122	0.1730	2.3000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901
Paving	0.0314					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0342	0.0122	0.1730	2.3000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901

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3.4 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	6.7000e-004	5.1000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4829	1.4829	4.0000e-005	0.0000	1.4840
Total	6.7000e-004	5.1000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4829	1.4829	4.0000e-005	0.0000	1.4840

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2141	1.9378	1.7017	2.7200e-003		0.1128	0.1128		0.1061	0.1061	0.0000	233.9261	233.9261	0.0571	0.0000	235.3528
Total	0.2141	1.9378	1.7017	2.7200e-003		0.1128	0.1128		0.1061	0.1061	0.0000	233.9261	233.9261	0.0571	0.0000	235.3528

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3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1104	3.4981	0.8821	8.2300e-003	0.2056	0.0171	0.2227	0.0593	0.0164	0.0757	0.0000	798.1130	798.1130	0.0533	0.0000	799.4446
Worker	0.3727	0.2869	3.1765	9.1600e-003	0.9186	7.1400e-003	0.9258	0.2440	6.5800e-003	0.2505	0.0000	827.7696	827.7696	0.0238	0.0000	828.3655
Total	0.4831	3.7850	4.0585	0.0174	1.1242	0.0243	1.1485	0.3033	0.0230	0.3262	0.0000	1,625.8826	1,625.8826	0.0771	0.0000	1,627.8100

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0331	0.2257	1.7635	2.7200e-003		4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	233.9258	233.9258	0.0571	0.0000	235.3526
Total	0.0331	0.2257	1.7635	2.7200e-003		4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	233.9258	233.9258	0.0571	0.0000	235.3526

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3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1104	3.4981	0.8821	8.2300e-003	0.2056	0.0171	0.2227	0.0593	0.0164	0.0757	0.0000	798.1130	798.1130	0.0533	0.0000	799.4446
Worker	0.3727	0.2869	3.1765	9.1600e-003	0.9186	7.1400e-003	0.9258	0.2440	6.5800e-003	0.2505	0.0000	827.7696	827.7696	0.0238	0.0000	828.3655
Total	0.4831	3.7850	4.0585	0.0174	1.1242	0.0243	1.1485	0.3033	0.0230	0.3262	0.0000	1,625.8826	1,625.8826	0.0771	0.0000	1,627.8100

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1882	1.7258	1.6409	2.6700e-003		0.0949	0.0949		0.0892	0.0892	0.0000	229.3209	229.3209	0.0553	0.0000	230.7040
Total	0.1882	1.7258	1.6409	2.6700e-003		0.0949	0.0949		0.0892	0.0892	0.0000	229.3209	229.3209	0.0553	0.0000	230.7040

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3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0919	3.1104	0.7861	8.0000e-003	0.2015	6.3400e-003	0.2079	0.0581	6.0600e-003	0.0642	0.0000	776.4226	776.4226	0.0501	0.0000	777.6739
Worker	0.3411	0.2532	2.8642	8.6800e-003	0.9004	6.7900e-003	0.9072	0.2391	6.2500e-003	0.2454	0.0000	785.1339	785.1339	0.0211	0.0000	785.6621
Total	0.4330	3.3636	3.6503	0.0167	1.1020	0.0131	1.1151	0.2973	0.0123	0.3096	0.0000	1,561.5565	1,561.5565	0.0712	0.0000	1,563.3360

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0325	0.2212	1.7286	2.6700e-003		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	229.3206	229.3206	0.0553	0.0000	230.7038
Total	0.0325	0.2212	1.7286	2.6700e-003		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	229.3206	229.3206	0.0553	0.0000	230.7038

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3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0919	3.1104	0.7861	8.0000e-003	0.2015	6.3400e-003	0.2079	0.0581	6.0600e-003	0.0642	0.0000	776.4226	776.4226	0.0501	0.0000	777.6739
Worker	0.3411	0.2532	2.8642	8.6800e-003	0.9004	6.7900e-003	0.9072	0.2391	6.2500e-003	0.2454	0.0000	785.1339	785.1339	0.0211	0.0000	785.6621
Total	0.4330	3.3636	3.6503	0.0167	1.1020	0.0131	1.1151	0.2973	0.0123	0.3096	0.0000	1,561.5565	1,561.5565	0.0712	0.0000	1,563.3360

3.6 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7362					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.0859	0.0934	1.5000e-004		5.6600e-003	5.6600e-003		5.6600e-003	5.6600e-003	0.0000	13.0216	13.0216	1.0100e-003	0.0000	13.0468
Total	1.7486	0.0859	0.0934	1.5000e-004		5.6600e-003	5.6600e-003		5.6600e-003	5.6600e-003	0.0000	13.0216	13.0216	1.0100e-003	0.0000	13.0468

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3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0377	0.0290	0.3212	9.3000e-004	0.0929	7.2000e-004	0.0936	0.0247	6.6000e-004	0.0253	0.0000	83.6974	83.6974	2.4100e-003	0.0000	83.7576
Total	0.0377	0.0290	0.3212	9.3000e-004	0.0929	7.2000e-004	0.0936	0.0247	6.6000e-004	0.0253	0.0000	83.6974	83.6974	2.4100e-003	0.0000	83.7576

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.7362					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5200e-003	6.5700e-003	0.0935	1.5000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	13.0216	13.0216	1.0100e-003	0.0000	13.0468
Total	1.7378	6.5700e-003	0.0935	1.5000e-004		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	13.0216	13.0216	1.0100e-003	0.0000	13.0468

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3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0377	0.0290	0.3212	9.3000e-004	0.0929	7.2000e-004	0.0936	0.0247	6.6000e-004	0.0253	0.0000	83.6974	83.6974	2.4100e-003	0.0000	83.7576
Total	0.0377	0.0290	0.3212	9.3000e-004	0.0929	7.2000e-004	0.0936	0.0247	6.6000e-004	0.0253	0.0000	83.6974	83.6974	2.4100e-003	0.0000	83.7576

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.3704					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.1512	0.1799	2.9000e-004		9.3200e-003	9.3200e-003		9.3200e-003	9.3200e-003	0.0000	25.2772	25.2772	1.7300e-003	0.0000	25.3206
Total	3.3920	0.1512	0.1799	2.9000e-004		9.3200e-003	9.3200e-003		9.3200e-003	9.3200e-003	0.0000	25.2772	25.2772	1.7300e-003	0.0000	25.3206

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3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	0.0683	0.0507	0.5735	1.7400e-003	0.1803	1.3600e-003	0.1817	0.0479	1.2500e-003	0.0491	0.0000	157.2162	157.2162	4.2300e-003	0.0000	157.3220
Total	0.0683	0.0507	0.5735	1.7400e-003	0.1803	1.3600e-003	0.1817	0.0479	1.2500e-003	0.0491	0.0000	157.2162	157.2162	4.2300e-003	0.0000	157.3220

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.3704					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9400e-003	0.0128	0.1814	2.9000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	25.2772	25.2772	1.7300e-003	0.0000	25.3206
Total	3.3733	0.0128	0.1814	2.9000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	25.2772	25.2772	1.7300e-003	0.0000	25.3206

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3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0683	0.0507	0.5735	1.7400e-003	0.1803	1.3600e-003	0.1817	0.0479	1.2500e-003	0.0491	0.0000	157.2162	157.2162	4.2300e-003	0.0000	157.3220
Total	0.0683	0.0507	0.5735	1.7400e-003	0.1803	1.3600e-003	0.1817	0.0479	1.2500e-003	0.0491	0.0000	157.2162	157.2162	4.2300e-003	0.0000	157.3220

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Latitude Business Park (2030) - South Coast Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5420	3.5727	7.9394	0.0420	4.1285	0.0257	4.1542	1.1089	0.0240	1.1329	0.0000	3,927.3789	3,927.3789	0.1629	0.0000	3,931.4506
Unmitigated	0.5420	3.5727	7.9394	0.0420	4.1285	0.0257	4.1542	1.1089	0.0240	1.1329	0.0000	3,927.3789	3,927.3789	0.1629	0.0000	3,931.4506

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	1,020.62	0.00	0.00	3,581,583	3,581,583
Industrial Park	586.58	0.00	0.00	1,848,635	1,848,635
Manufacturing	627.78	0.00	0.00	2,203,015	2,203,015
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	304.50	0.00	0.00	1,037,552	1,037,552
Unrefrigerated Warehouse-No Rail	626.77	0.00	0.00	2,135,638	2,135,638
Total	3,166.25	0.00	0.00	10,806,424	10,806,424

4.3 Trip Type Information

Latitude Business Park (2030) - South Coast Air Basin, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	19.02	8.40	6.90	59.00	28.00	13.00	92	5	3
Industrial Park	19.02	8.40	6.90	59.00	28.00	13.00	79	19	2
Manufacturing	19.02	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	19.02	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	19.02	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.552111	0.043066	0.242894	0.118512	0.015605	0.002500	0.005000	0.010000	0.002087	0.001818	0.004803	0.000708	0.000896
Industrial Park	0.552111	0.043066	0.242894	0.118512	0.015605	0.002500	0.005000	0.010000	0.002087	0.001818	0.004803	0.000708	0.000896
Manufacturing	0.552111	0.043066	0.082491	0.118512	0.015605	0.049000	0.041000	0.087900	0.002087	0.001818	0.004803	0.000708	0.000896
Parking Lot	0.552111	0.043066	0.201891	0.118512	0.015605	0.005863	0.021387	0.031253	0.002087	0.001818	0.004803	0.000708	0.000896
Refrigerated Warehouse-No Rail	0.552111	0.043066	0.082491	0.118512	0.015605	0.049000	0.041000	0.087900	0.002087	0.001818	0.004803	0.000708	0.000896
Unrefrigerated Warehouse-No Rail	0.552111	0.043066	0.082491	0.118512	0.015605	0.049000	0.041000	0.087900	0.002087	0.001818	0.004803	0.000708	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Latitude Business Park (2030) - South Coast Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	1,740.9218	1,740.9218	0.0723	0.0155	1,747.3425
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	2,068.9597	2,068.9597	0.0859	0.0184	2,076.5902
NaturalGas Mitigated	0.1201	1.0916	0.9169	6.5500e-003			0.0830	0.0830		0.0830	0.0000	1,188.3391	1,188.3391	0.0228	0.0218	1,195.4008
NaturalGas Unmitigated	0.1201	1.0916	0.9169	6.5500e-003			0.0830	0.0830		0.0830	0.0000	1,188.3391	1,188.3391	0.0228	0.0218	1,195.4008

Latitude Business Park (2030) - South Coast Air Basin, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	6.68547e+006	0.0361	0.3277	0.2753	1.9700e-003		0.0249	0.0249		0.0249	0.0249	0.0000	356.7620	356.7620	6.8400e-003	6.5400e-003	358.8821
Industrial Park	603988	3.2600e-003	0.0296	0.0249	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.2311	32.2311	6.2000e-004	5.9000e-004	32.4226
Manufacturing	5.18995e+006	0.0280	0.2544	0.2137	1.5300e-003		0.0193	0.0193		0.0193	0.0193	0.0000	276.9556	276.9556	5.3100e-003	5.0800e-003	278.6014
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
Refrigerated Warehouse-No Rail	9.058e+006	0.0488	0.4440	0.3730	2.6600e-003		0.0338	0.0338		0.0338	0.0338	0.0000	483.3694	483.3694	9.2600e-003	8.8600e-003	486.2418
Unrefrigerated Warehouse-No Rail	731226	3.9400e-003	0.0358	0.0301	2.2000e-004		2.7200e-003	2.7200e-003		2.7200e-003	2.7200e-003	0.0000	39.0210	39.0210	7.5000e-004	7.2000e-004	39.2529
Total		0.1201	1.0916	0.9169	6.5600e-003		0.0830	0.0830		0.0830	0.0830	0.0000	1,188.3391	1,188.3391	0.0228	0.0218	1,195.4008

Latitude Business Park (2030) - South Coast Air Basin, Annual

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	6.68547e+006	0.0361	0.3277	0.2753	1.9700e-003		0.0249	0.0249		0.0249	0.0249	0.0000	356.7620	356.7620	6.8400e-003	6.5400e-003	358.8821
Industrial Park	603988	3.2600e-003	0.0296	0.0249	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.2311	32.2311	6.2000e-004	5.9000e-004	32.4226
Manufacturing	5.18995e+006	0.0280	0.2544	0.2137	1.5300e-003		0.0193	0.0193		0.0193	0.0193	0.0000	276.9556	276.9556	5.3100e-003	5.0800e-003	278.6014
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
Refrigerated Warehouse-No Rail	9.058e+006	0.0488	0.4440	0.3730	2.6600e-003		0.0338	0.0338		0.0338	0.0338	0.0000	483.3694	483.3694	9.2600e-003	8.8600e-003	486.2418
Unrefrigerated Warehouse-No Rail	731226	3.9400e-003	0.0358	0.0301	2.2000e-004		2.7200e-003	2.7200e-003		2.7200e-003	2.7200e-003	0.0000	39.0210	39.0210	7.5000e-004	7.2000e-004	39.2529
Total		0.1201	1.0916	0.9169	6.5600e-003		0.0830	0.0830		0.0830	0.0830	0.0000	1,188.3391	1,188.3391	0.0228	0.0218	1,195.4008

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	2.08857e+006	319.5436	0.0133	2.8400e-003	320.7222
Industrial Park	1.65705e+006	253.5234	0.0105	2.2500e-003	254.4584
Manufacturing	1.62136e+006	248.0629	0.0103	2.2100e-003	248.9778
Parking Lot	314580	48.1297	2.0000e-003	4.3000e-004	48.3072
Refrigerated Warehouse-No Rail	6.99125e+006	1,069.6382	0.0444	9.5100e-003	1,073.5832
Unrefrigerated Warehouse-No Rail	850096	130.0618	5.4000e-003	1.1600e-003	130.5415
Total		2,068.9597	0.0859	0.0184	2,076.5902

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.63639e+006	250.3617	0.0104	2.2300e-003	251.2850
Industrial Park	1.17926e+006	180.4224	7.4900e-003	1.6000e-003	181.0878
Manufacturing	1.27033e+006	194.3567	8.0700e-003	1.7300e-003	195.0735
Parking Lot	78645	12.0324	5.0000e-004	1.1000e-004	12.0768
Refrigerated Warehouse-No Rail	6.68019e+006	1,022.0467	0.0424	9.0900e-003	1,025.8161
Unrefrigerated Warehouse-No Rail	534011	81.7020	3.3900e-003	7.3000e-004	82.0033
Total		1,740.9218	0.0723	0.0155	1,747.3425

6.0 Area Detail

6.1 Mitigation Measures Area

Latitude Business Park (2030) - South Coast Air Basin, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.4563	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.1000e-004	0.0000	0.0878
Unmitigated	4.4563	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.1000e-004	0.0000	0.0878

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5107					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.8600e-003	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.1000e-004	0.0000	0.0878
Total	4.4563	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.1000e-004	0.0000	0.0878

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5107					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.9418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.8600e-003	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.1000e-004	0.0000	0.0878
Total	4.4563	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.1000e-004	0.0000	0.0878

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	573.9909	8.1193	0.1956	835.2728
Unmitigated	573.9909	8.1193	0.1956	835.2728

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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	47.5843 / 0	109.8924	1.5545	0.0375	159.9156
Industrial Park	40.2514 / 0	92.9575	1.3149	0.0317	135.2719
Manufacturing	36.9399 / 0	85.3098	1.2067	0.0291	124.1431
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	40.4688 / 0	93.4595	1.3220	0.0319	136.0025
Unrefrigerated Warehouse-No Rail	83.2986 / 0	192.3717	2.7212	0.0656	279.9397
Total		573.9909	8.1193	0.1956	835.2728

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	47.5843 / 0	109.8924	1.5545	0.0375	159.9156
Industrial Park	40.2514 / 0	92.9575	1.3149	0.0317	135.2719
Manufacturing	36.9399 / 0	85.3098	1.2067	0.0291	124.1431
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	40.4688 / 0	93.4595	1.3220	0.0319	136.0025
Unrefrigerated Warehouse-No Rail	83.2986 / 0	192.3717	2.7212	0.0656	279.9397
Total		573.9909	8.1193	0.1956	835.2728

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	178.4534	10.5463	0.0000	442.1108
Unmitigated	237.9379	14.0617	0.0000	589.4810

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	255.15	51.7931	3.0609	0.0000	128.3153
Industrial Park	215.83	43.8115	2.5892	0.0000	108.5412
Manufacturing	198.08	40.2085	2.3763	0.0000	99.6147
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	164.5	33.3920	1.9734	0.0000	82.7273
Unrefrigerated Warehouse-No Rail	338.6	68.7327	4.0620	0.0000	170.2825
Total		237.9379	14.0617	0.0000	589.4810

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	191.363	38.8449	2.2957	0.0000	96.2365
Industrial Park	161.873	32.8587	1.9419	0.0000	81.4059
Manufacturing	148.56	30.1563	1.7822	0.0000	74.7111
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	123.375	25.0440	1.4801	0.0000	62.0455
Unrefrigerated Warehouse-No Rail	253.95	51.5496	3.0465	0.0000	127.7118
Total		178.4534	10.5463	0.0000	442.1108

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

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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
