

# ***Ldn Consulting, Inc.***

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June 2, 2021

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**RE: Energy Use and Conservation – Latitude Business Park development - City of Corona, CA**

This analysis evaluates both construction and operational energy efficiency as it relates to non-renewable fuel sources including Electrical, Natural Gas, Diesel and Gasoline. This effort was prepared according to requirements established within Public Resource Code (PRC) Section 21100(b)(3) and California Environmental Quality Act (CEQA) Guidelines Section 15126.4. The intent is to adequately address the following CEQA questions:

*Would the project:*

- 1. Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?*
- 2. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?*

## ***Project Description***

The Project site is located on the west side of Temescal Canyon Road, between La Gloria Street Road and Tom Barnes Street, in the City of Corona, California. 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. This analysis was updated due to the fact that up to 175,000 SF of that warehouse space could contain cold storage. The project is located on 75 gross acre site. Also, as a design feature, the project would utilize Tier 4 construction equipment. It is expected that project construction would begin sometime in 2020 and be fully built out in 2022. The proposed project will consume electricity, natural gas, diesel and gasoline for both construction and operations activities.

## ***Construction***

Energy usage for construction equipment is best estimated using total horsepower hours and an assumed thermal efficiency of 30%. The most common measure of the energy efficiency of a tractor is referred to here as "specific volumetric fuel consumption" (SVFC), which is given in

units of gallons per horsepower-hour (gal/hp-h). SVFC for diesel engines typically ranges from 0.0476 to 0.1110 gal/hp-h. Inverting these numbers yields a range of between 12-21 hp-h/gal. Over the last 30 years, fuel efficiency at maximum power has increased from roughly 14.5 to 16.5 hp-h/gal (VirginiaTech, 2010).

Project construction dates were estimated based on an estimated construction kickoff starting in July 2019 and completing the project sometime in 2020. Based on the equipment, quantity, work time, Horsepower (HP), the project would require a total of 1,242,791.20 hp-h (See Table 1 Below). Based on this, the project would consume roughly 75,321 gallons of diesel for construction. It should be noted that fuel consumption would go up if diesel construction equipment is poorly maintained. Based on this, the project shall properly maintain all equipment per manufacture recommendations.

**Table 1: Expected Construction Equipment**

Equipment Identification	Construction Days	Hours per day	HP	Load Factor	Quantity	Horsepower Hours
<b>Site Preparation</b>	10					
Rubber Tired Dozers		8	247	0.4	3	23,712.00
Tractors/Loaders/Backhoes		8	97	0.37	4	11,484.80
<b>Grading</b>	30					
Excavators		8	158	0.38	2	28,819.20
Graders		8	187	0.41	1	18,400.80
Rubber Tired Dozers		8	247	0.4	1	23,712.00
Scrapers		8	367	0.48	2	84,556.80
Tractors/Loaders/Backhoes		8	97	0.37	2	17,227.20
<b>Paving</b>	20					
Pavers		8	130	0.42	2	17,472.00
Paving Equipment		8	132	0.36	2	15,206.40
Rollers		8	80	0.38	2	9,728.00
<b>Building Construction</b>	400					
Cranes		7	231	0.29	1	187,572.00
Forklifts		8	89	0.2	3	170,880.00
Generator Sets		8	84	0.74	1	198,912.00
Tractors/Loaders/Backhoes		7	97	0.37	3	301,476.00
Welders		8	46	0.45	1	66,240.00
<b>Architectural Coating</b>	300					
Air Compressors		6	78	0.48	1	67,392.00
Total Horsepower Hours						1,242,791.20
Total Diesel Fuel (Gal) @ 16.5 hp-h/gal						75,321
Construction Lists identified within <b>CalEEMod Attachment A</b> to this report which was used for the project GHG analysis						

Construction emissions from workers vendors and hauling are based on the estimated vehicle miles traveled (VMT) for the total construction duration which is 2,431,536 miles total. In California, the average fuel intensity for on-road vehicles is 0.0615 gal/mile (University of California, Irvine, 2005). Based on this, the vehicular trips would consume roughly 149,539.5 gallons total during construction.

On-road vehicles are regulated by state and federal regulations and vehicular fleet efficiencies are getting better each year. Additionally, all construction equipment shall be maintained as needed per manufactures recommendations. Based on this, the short-term energy demand during construction of the project and would not result in a wasteful or inefficient use of energy.

## ***Operations***

### *Energy – Utility Demand*

The State of California has implemented a number of energy reducing policies largely geared to reducing Greenhouse gasses (GHGs). The most notable is Assembly Bill (AB) 32 which was signed in 2006. Since then, the state has implemented two scoping plan updates which are geared to reduce GHG emissions by reducing energy consumption, increasing energy efficiency and increasing the usage of renewable sources. The state has also taken a strong step in increasing building efficiencies under Title 24, par 6 of California’s Code of Regulations.

Under Title 24, Newly constructed non-residential buildings are estimated to achieve a 5% reduction in electricity consumption under the 2016 standards (California Energy Commission, 2015).

In addition to the CEC’s efforts, in 2008, the California Building Standards Commission adopted the nation’s first green building standards. The California Green Building Standards Code (Part 11 of Title 24) is commonly referred to as CALGreen and establishes minimum mandatory standards as well as voluntary standards pertaining to the planning and design of sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and interior air quality. The CALGreen standards took effect in January 2011 and instituted mandatory minimum environmental performance standards for all ground-up, new construction of commercial, low-rise residential and state-owned buildings and schools and hospitals. The CALGreen 2016 standards became effective on January 1, 2017. The mandatory standards require the following (24 CCR Part 11):

- Mandatory reduction in indoor water use through compliance with specified flow rates for plumbing fixtures and fittings.
- Mandatory reduction in outdoor water use through compliance with a local water efficient landscaping ordinance or the California Department of Water Resources’ Model Water Efficient Landscape Ordinance.
- Sixty five (65) percent of construction waste must be diverted from landfills.

- Mandatory inspections of energy systems to ensure optimal working efficiency.
- Inclusion of electric vehicle charging stations or designated spaces capable of supporting future charging stations.
- Low-pollutant emitting exterior and interior finish materials, such as paints, carpets, vinyl flooring, and particle boards.

The CALGreen standards also include voluntary efficiency measures that are provided at two separate tiers and implemented at the discretion of local agencies and applicants. CALGreen's Tier 1 standards call for a 15 percent improvement in energy requirements; stricter water conservation, 65 percent diversion of construction and demolition waste, 10 percent recycled content in building materials, 20 percent permeable paving, 20 percent cement reduction, and cool/solar-reflective roofs. CALGreen's more rigorous Tier 2 standards call for a 30 percent improvement in energy requirements, stricter water conservation, 75 percent diversion of construction and demolition waste, 15 percent recycled content in building materials, 30 percent permeable paving, 25 percent cement reduction, and cool/solar-reflective roofs.

Furthermore, the state has implemented a number of regulations which force utility electrical utility providers to increase renewable portfolios or procurement. Specifically, the following policies are noted:

SB 1078 (2002) established the Renewables Portfolio Standard (RPS) program, which requires an annual increase in renewable generation by the utilities equivalent to at least 1 percent of sales, with an aggregate goal of 20 percent by 2017. This goal was subsequently accelerated, requiring utilities to obtain 20 percent of their power from renewable sources by 2010.

SB X1 2 (2011) expanded the RPS by establishing that 20 percent of the total electricity sold to retail customers in California per year by December 31, 2013, and 33 percent by December 31, 2020, and in subsequent years be secured from qualifying renewable energy sources. Under the bill, a renewable electrical generation facility is one that uses biomass, solar thermal, photovoltaic, wind, geothermal, fuel cells using renewable fuels, small hydroelectric generation of 30 megawatts or less, digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current, and that meets other specified requirements with respect to its location. In addition to the retail sellers previously covered by the RPS, SB X1 2 added local, publicly owned electric utilities to the RPS.

SB 350 (2015) further expanded the RPS by establishing that 50 percent of the total electricity sold to retail customers in California per year by December 31, 2030 be secured from qualifying renewable energy sources. In addition, SB 350 includes the goal to double the energy efficiency savings in electricity and natural gas uses (such as heating, cooling, lighting, or class of energy uses on which an energy-efficiency program is focused) of retail customers through energy conservation and efficiency.

SB 100 (2018) has further accelerated and expanded the RPS, requiring achievement of a 50 percent RPS by December 31, 2026 and a 60 percent RPS by December 31, 2030. SB 100 also established a new statewide policy goal that calls for eligible renewable energy resources and

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zero-carbon resources to supply 100 percent of electricity retail sales and 100 percent of electricity procured to serve all state agencies by December 31, 2045.

Based on the project GHG analysis, the project would on average consume 22,268,634 kBTU of natural Gas and 11,378,826 kWh of electricity each year. Under that analysis, reductions from T24 (2019) were not accounted for which would improve the efficiency of the project in terms of energy consumption. Based on this, electricity use associated with project operation would not result in wasteful, inefficient, or an unnecessary use of energy. As noted earlier in this analysis the CalEEMod estimation tool output is provided as **Attachment A** to this letter.

### Energy – Vehicular Usage

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). The proposed project is within walking distance the Corona Cruiser Red Line (City of Corona - Corona Cruiser, 2019). The ease of access to this resource would result in reduced vehicle miles traveled, reducing gasoline use, and inhibiting wasteful, inefficient, or unnecessary use of energy. Furthermore, the project is within walking distance to shopping and eateries adjacent to the project site. Therefore, the project would have a less than significant impact.

Energy efficiency for vehicles have been increasing as efficiency is mandated by State specific policies geared to reduce GHG emissions using zero-emission vehicles. These policies are:

#### Executive Order (EO) B-16-12

In March 2012 EO B-16-12 directs state entities under the Governor’s direction and control to support and facilitate development and distribution of ZEVs. This EO also sets a long-term target of reaching 1.5 million zero-emission vehicles on California’s roadways by 2025. On a statewide basis, EO B-16-12 also establishes a GHG emissions reduction target from the transportation sector equaling 80 percent less than 1990 levels by 2050. In furtherance of this EO, the Governor convened an Interagency Working Group on Zero-Emission Vehicles that has published multiple reports regarding the progress made on the penetration of ZEVs in the statewide vehicle fleet.

#### California Senate Bill 350

In 2015, SB 350 – the Clean Energy and Pollution Reduction Act – was enacted into law. As one of its elements, SB 350 establishes a statewide policy for widespread electrification of the transportation sector, recognizing that such electrification is required for achievement of the state’s 2030 and 2050 reduction targets (see Public Utilities Code Section 740.12).

These regulations ultimately are geared to reduce GHG emissions by powering vehicles by electric sources. These sources do actually produce offsite emissions from electric utility

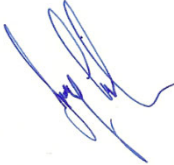
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companies and consume electrical energy though the efficiencies of electricity production are much higher than standard gasoline or diesel-powered vehicles. The project will install 82 electric vehicle charging stations which will allow employees to utilize electric vehicles for commuting to and from work.

Based on this, the long-term energy demand during operations of the project would not result in a wasteful or inefficient use of energy. As renewable portfolios increase and as electric vehicle operations become more standardized, energy consumptions and efficiency will decrease. Given this, a less than significant impact under CEQA with respect to Energy Waste is expected and the project would not result in a wasteful or inefficient use of energy. Furthermore, the project would not conflict with or obstruct the State's or Local plans for renewable energy or energy efficiency.

Sincerely Ldn Consulting,



Jeremy Loudon

**Attachment A:** CalEEMod outputs

**References:**

- California Energy Commission. (2015, June 3). Retrieved from [http://www.energy.ca.gov/title24/2016standards/rulemaking/documents/15-day\\_language/impact\\_analysis/2016\\_Impact\\_Analysis\\_2015-06-03.pdf](http://www.energy.ca.gov/title24/2016standards/rulemaking/documents/15-day_language/impact_analysis/2016_Impact_Analysis_2015-06-03.pdf)
- City of Corona - Corona Cruiser. (2019). *Corona Cruiser Red Line Weeday Service*. Retrieved from <https://www.coronaca.gov/home/showdocument?id=5051>
- LL&G. (November 2019). *General Plan Conformance Traffic Analysis for the Proposed Latitude Business Park Project*.
- University of California, Irvine. (2005). *Fuel Efficiency and Motor Vehicle Travel*. Retrieved from <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.367.2859&rep=rep1&type=pdf>
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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**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	536.32	<b>CH4 Intensity (lb/MWhr)</b>	0.022	<b>N2O Intensity (lb/MWhr)</b>	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	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	110.00	30.00
tblConstructionPhase	NumDays	75.00	20.00
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tblConstructionPhase	NumDays	75.00	300.00
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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
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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	0.022
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
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tblVehicleTrips	SU_TR	1.68	0.00
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tblVehicleTrips	WD_TR	6.83	3.37
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tblVehicleTrips	WD_TR	1.68	1.74
tblVehicleTrips	WD_TR	1.68	1.74

## 2.0 Emissions Summary

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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
<b>Total</b>	<b>5.3918</b>	<b>7.1450</b>	<b>13.0528</b>	<b>0.0578</b>	<b>4.1297</b>	<b>0.1255</b>	<b>4.2551</b>	<b>1.1094</b>	<b>0.1228</b>	<b>1.2322</b>	<b>316.7891</b>	<b>10,021.3832</b>	<b>10,338.1723</b>	<b>22.5784</b>	<b>0.2510</b>	<b>10,977.4375</b>

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**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
<b>Total</b>	<b>5.3918</b>	<b>7.1450</b>	<b>13.0528</b>	<b>0.0578</b>	<b>4.1297</b>	<b>0.1255</b>	<b>4.2551</b>	<b>1.1094</b>	<b>0.1228</b>	<b>1.2322</b>	<b>257.3046</b>	<b>9,499.7903</b>	<b>9,757.0949</b>	<b>19.0416</b>	<b>0.2462</b>	<b>10,306.4904</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>18.78</b>	<b>5.20</b>	<b>5.62</b>	<b>15.66</b>	<b>1.94</b>	<b>6.11</b>

**3.0 Construction Detail**

**Construction Phase**

Latitude Business Park (2022) - 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
<b>Total</b>	<b>0.0204</b>	<b>0.2121</b>	<b>0.1076</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>0.0110</b>	<b>0.1013</b>	<b>0.0497</b>	<b>0.0101</b>	<b>0.0598</b>	<b>0.0000</b>	<b>16.7153</b>	<b>16.7153</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>16.8505</b>

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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
<b>Total</b>	<b>4.0000e-004</b>	<b>3.1000e-004</b>	<b>3.4100e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8898</b>	<b>0.8898</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.8904</b>

**Mitigated Construction On-Site**

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

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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
<b>Total</b>	<b>4.0000e-004</b>	<b>3.1000e-004</b>	<b>3.4100e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8898</b>	<b>0.8898</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.8904</b>

**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
<b>Total</b>	<b>0.0668</b>	<b>0.7530</b>	<b>0.4794</b>	<b>9.3000e-004</b>	<b>0.1301</b>	<b>0.0326</b>	<b>0.1627</b>	<b>0.0540</b>	<b>0.0300</b>	<b>0.0840</b>	<b>0.0000</b>	<b>81.7264</b>	<b>81.7264</b>	<b>0.0264</b>	<b>0.0000</b>	<b>82.3872</b>

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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
<b>Total</b>	<b>1.3400e-003</b>	<b>1.0300e-003</b>	<b>0.0114</b>	<b>3.0000e-005</b>	<b>3.2900e-003</b>	<b>3.0000e-005</b>	<b>3.3200e-003</b>	<b>8.7000e-004</b>	<b>2.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.9659</b>	<b>2.9659</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.9680</b>

**Mitigated Construction On-Site**

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

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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
<b>Total</b>	<b>1.3400e-003</b>	<b>1.0300e-003</b>	<b>0.0114</b>	<b>3.0000e-005</b>	<b>3.2900e-003</b>	<b>3.0000e-005</b>	<b>3.3200e-003</b>	<b>8.7000e-004</b>	<b>2.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.9659</b>	<b>2.9659</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.9680</b>

**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
<b>Total</b>	<b>0.0450</b>	<b>0.1407</b>	<b>0.1465</b>	<b>2.3000e-004</b>		<b>7.5300e-003</b>	<b>7.5300e-003</b>		<b>6.9300e-003</b>	<b>6.9300e-003</b>	<b>0.0000</b>	<b>20.0282</b>	<b>20.0282</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1902</b>

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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
<b>Total</b>	<b>6.7000e-004</b>	<b>5.1000e-004</b>	<b>5.6900e-003</b>	<b>2.0000e-005</b>	<b>1.6500e-003</b>	<b>1.0000e-005</b>	<b>1.6600e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.4829</b>	<b>1.4829</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.4840</b>

**Mitigated Construction On-Site**

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

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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
<b>Total</b>	<b>6.7000e-004</b>	<b>5.1000e-004</b>	<b>5.6900e-003</b>	<b>2.0000e-005</b>	<b>1.6500e-003</b>	<b>1.0000e-005</b>	<b>1.6600e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.4829</b>	<b>1.4829</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.4840</b>

**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
<b>Total</b>	<b>0.2141</b>	<b>1.9378</b>	<b>1.7017</b>	<b>2.7200e-003</b>		<b>0.1128</b>	<b>0.1128</b>		<b>0.1061</b>	<b>0.1061</b>	<b>0.0000</b>	<b>233.9261</b>	<b>233.9261</b>	<b>0.0571</b>	<b>0.0000</b>	<b>235.3528</b>

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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
<b>Total</b>	<b>0.4831</b>	<b>3.7850</b>	<b>4.0585</b>	<b>0.0174</b>	<b>1.1242</b>	<b>0.0243</b>	<b>1.1485</b>	<b>0.3033</b>	<b>0.0230</b>	<b>0.3262</b>	<b>0.0000</b>	<b>1,625.8826</b>	<b>1,625.8826</b>	<b>0.0771</b>	<b>0.0000</b>	<b>1,627.8100</b>

**Mitigated Construction On-Site**

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



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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
<b>Total</b>	<b>0.4831</b>	<b>3.7850</b>	<b>4.0585</b>	<b>0.0174</b>	<b>1.1242</b>	<b>0.0243</b>	<b>1.1485</b>	<b>0.3033</b>	<b>0.0230</b>	<b>0.3262</b>	<b>0.0000</b>	<b>1,625.8826</b>	<b>1,625.8826</b>	<b>0.0771</b>	<b>0.0000</b>	<b>1,627.8100</b>

**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
<b>Total</b>	<b>0.1882</b>	<b>1.7258</b>	<b>1.6409</b>	<b>2.6700e-003</b>		<b>0.0949</b>	<b>0.0949</b>		<b>0.0892</b>	<b>0.0892</b>	<b>0.0000</b>	<b>229.3209</b>	<b>229.3209</b>	<b>0.0553</b>	<b>0.0000</b>	<b>230.7040</b>

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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
<b>Total</b>	<b>0.4330</b>	<b>3.3636</b>	<b>3.6503</b>	<b>0.0167</b>	<b>1.1020</b>	<b>0.0131</b>	<b>1.1151</b>	<b>0.2973</b>	<b>0.0123</b>	<b>0.3096</b>	<b>0.0000</b>	<b>1,561.5565</b>	<b>1,561.5565</b>	<b>0.0712</b>	<b>0.0000</b>	<b>1,563.3360</b>

**Mitigated Construction On-Site**

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

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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
<b>Total</b>	<b>0.4330</b>	<b>3.3636</b>	<b>3.6503</b>	<b>0.0167</b>	<b>1.1020</b>	<b>0.0131</b>	<b>1.1151</b>	<b>0.2973</b>	<b>0.0123</b>	<b>0.3096</b>	<b>0.0000</b>	<b>1,561.5565</b>	<b>1,561.5565</b>	<b>0.0712</b>	<b>0.0000</b>	<b>1,563.3360</b>

**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
<b>Total</b>	<b>1.7486</b>	<b>0.0859</b>	<b>0.0934</b>	<b>1.5000e-004</b>		<b>5.6600e-003</b>	<b>5.6600e-003</b>		<b>5.6600e-003</b>	<b>5.6600e-003</b>	<b>0.0000</b>	<b>13.0216</b>	<b>13.0216</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>13.0468</b>

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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
<b>Total</b>	<b>0.0377</b>	<b>0.0290</b>	<b>0.3212</b>	<b>9.3000e-004</b>	<b>0.0929</b>	<b>7.2000e-004</b>	<b>0.0936</b>	<b>0.0247</b>	<b>6.6000e-004</b>	<b>0.0253</b>	<b>0.0000</b>	<b>83.6974</b>	<b>83.6974</b>	<b>2.4100e-003</b>	<b>0.0000</b>	<b>83.7576</b>

**Mitigated Construction On-Site**

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

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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
<b>Total</b>	<b>0.0377</b>	<b>0.0290</b>	<b>0.3212</b>	<b>9.3000e-004</b>	<b>0.0929</b>	<b>7.2000e-004</b>	<b>0.0936</b>	<b>0.0247</b>	<b>6.6000e-004</b>	<b>0.0253</b>	<b>0.0000</b>	<b>83.6974</b>	<b>83.6974</b>	<b>2.4100e-003</b>	<b>0.0000</b>	<b>83.7576</b>

**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
<b>Total</b>	<b>3.3920</b>	<b>0.1512</b>	<b>0.1799</b>	<b>2.9000e-004</b>		<b>9.3200e-003</b>	<b>9.3200e-003</b>		<b>9.3200e-003</b>	<b>9.3200e-003</b>	<b>0.0000</b>	<b>25.2772</b>	<b>25.2772</b>	<b>1.7300e-003</b>	<b>0.0000</b>	<b>25.3206</b>

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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
<b>Total</b>	<b>0.0683</b>	<b>0.0507</b>	<b>0.5735</b>	<b>1.7400e-003</b>	<b>0.1803</b>	<b>1.3600e-003</b>	<b>0.1817</b>	<b>0.0479</b>	<b>1.2500e-003</b>	<b>0.0491</b>	<b>0.0000</b>	<b>157.2162</b>	<b>157.2162</b>	<b>4.2300e-003</b>	<b>0.0000</b>	<b>157.3220</b>

**Mitigated Construction On-Site**

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

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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
<b>Total</b>	<b>0.0683</b>	<b>0.0507</b>	<b>0.5735</b>	<b>1.7400e-003</b>	<b>0.1803</b>	<b>1.3600e-003</b>	<b>0.1817</b>	<b>0.0479</b>	<b>1.2500e-003</b>	<b>0.0491</b>	<b>0.0000</b>	<b>157.2162</b>	<b>157.2162</b>	<b>4.2300e-003</b>	<b>0.0000</b>	<b>157.3220</b>

**4.0 Operational Detail - Mobile**

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**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	4,755.9449	4,755.9449	0.2277	0.0000	4,761.6363
Unmitigated	0.8153	6.0530	12.0934	0.0512	4.1297	0.0423	4.1720	1.1094	0.0397	1.1491	0.0000	4,755.9449	4,755.9449	0.2277	0.0000	4,761.6363

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
<b>Total</b>	<b>3,166.25</b>	<b>0.00</b>	<b>0.00</b>	<b>10,806,424</b>	<b>10,806,424</b>

4.3 Trip Type Information



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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

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	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
<b>Total</b>		<b>0.1201</b>	<b>1.0916</b>	<b>0.9169</b>	<b>6.5600e-003</b>		<b>0.0830</b>	<b>0.0830</b>		<b>0.0830</b>	<b>0.0830</b>	<b>0.0000</b>	<b>1,188.3391</b>	<b>1,188.3391</b>	<b>0.0228</b>	<b>0.0218</b>	<b>1,195.4008</b>

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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
<b>Total</b>		<b>0.1201</b>	<b>1.0916</b>	<b>0.9169</b>	<b>6.5600e-003</b>		<b>0.0830</b>	<b>0.0830</b>		<b>0.0830</b>	<b>0.0830</b>	<b>0.0000</b>	<b>1,188.3391</b>	<b>1,188.3391</b>	<b>0.0228</b>	<b>0.0218</b>	<b>1,195.4008</b>

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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
<b>Total</b>		<b>3,289.7256</b>	<b>0.1350</b>	<b>0.0307</b>	<b>3,302.2387</b>

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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
<b>Total</b>		<b>2,768.1327</b>	<b>0.1136</b>	<b>0.0258</b>	<b>2,778.6619</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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
<b>Total</b>	<b>4.4564</b>	<b>3.9000e-004</b>	<b>0.0425</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.0824</b>	<b>0.0824</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0879</b>

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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	3.9500e-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
<b>Total</b>	<b>4.4564</b>	<b>3.9000e-004</b>	<b>0.0425</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.0824</b>	<b>0.0824</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0879</b>

**7.0 Water Detail**

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**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

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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	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
<b>Total</b>		<b>866.1424</b>	<b>8.1311</b>	<b>0.1986</b>	<b>1,128.5927</b>

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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	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
<b>Total</b>		<b>866.1424</b>	<b>8.1311</b>	<b>0.1986</b>	<b>1,128.5927</b>

**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
<b>Total</b>		<b>237.9379</b>	<b>14.0617</b>	<b>0.0000</b>	<b>589.4810</b>

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
<b>Total</b>		<b>178.4534</b>	<b>10.5463</b>	<b>0.0000</b>	<b>442.1108</b>

**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
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**11.0 Vegetation**

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