

Appendix A. Air Quality Technical Memorandum

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MEMORANDUM

To: Anthony Shute, Director of Community Development, City of El Cajon
From: Sharon Toland, Project Manager, Harris & Associates
RE: Comparison of Weld Boulevard Distribution Center Project Components to Forester Creek Industrial Park Project 2009 Environmental Impact Report Components – Air Quality Impacts
Date: January 5, 2021
CC: Darin Neufeld, Diane Sandman, Ryan Binns, Harris & Associates
Susan Guerra, Lee Chesnut, Chesnut Properties
Att: 1, CalEEMod Model Outputs

Chesnut Properties (project applicant) is proposing the development of the proposed Weld Boulevard Distribution Center Project (project) on approximately 31.7 acres in the City of El Cajon, California (Figure 1, Regional Location). The project site is part of the Gillespie Field airport located directly east of the site and is owned by the County of San Diego (County). The City of El Cajon/City of Santee jurisdictional boundary coincides with the northern and northwestern project site property lines. The project site is bounded by industrial land use and one residence in the City of Santee to the north and northwest, respectively. The remainder of the site is bounded by land uses in the City of El Cajon, including the County Operations Facility to the southwest, Weld Boulevard to the south, Cuyamaca Street to the east, Prospect Avenue to the north, and a concrete-lined section of the Forester Creek channel to the northeast. The project site is relatively flat and was previously graded. Prior uses included a golf driving range and cement processing facility. Currently, the project site consists of disturbed open space (Figure 2, Project Site).

In compliance with the California Environmental Quality Act (CEQA), an Addendum to the Forester Creek Industrial Park Project Environmental Impact Report (2009 EIR) is being prepared for the project. The 2009 EIR evaluated an industrial park project with approximately 463,000 square feet of industrial development. The project has since changed, and the current project proposes development of an approximately 142,000-square-foot distribution warehouse, office space, parking, and designated product pick-up and drop-off areas (Figure 3, USGS Topographic Map; Figure 4, Proposed Site Plan). The warehouse square footage would include space for an approximately 17,000-square-foot office to be at the southern end of the warehouse. The remainder of the project site would be developed with surface parking, which would contain approximately 967 total parking spaces, including designated spaces for associates, support staff, managers, personal vans, and warehouse delivery vans in the northern, eastern, and western outskirts of the project site. The project would also include a van loading area consisting of approximately 72 spaces directly west of the warehouse and a van staging area for approximately 72 vans immediately next to the van loading area. There would be 15 dock-high doors (above grade) and a trailer and box truck loading area for approximately 13 vehicles north of the proposed warehouse. Access to the site would be via three driveways on Weld Boulevard—one across from Gillespie Way and two between the intersections of Gillespie Way and Cuyamaca Street. A 6-foot-high solid perimeter wall may be required along the western and northern project boundaries. This memorandum presents a conservative analysis that does not include construction of the perimeter wall and does not assume any noise barrier attenuation.

The delivery station would operate 24 hours per day, 7 days per week, to support the delivery of packages to customer locations between 11:00 a.m. and 9:00 p.m. Delivery operations would consist of approximately 230 delivery vans loading and departing from the delivery station at a rate of 75 vans every 20 minutes in the morning (between 9:50 a.m. and 11:10 a.m.) and returning to the delivery station in the evening (between 7:10 p.m. and

9:10 p.m.). Approximately 21 line-haul trucks would deliver packages to the delivery station each night primarily between the hours of 10:00 p.m. and 8:00 a.m. However, during the holiday season, peak operation may reach up to 600 vans and 48 trucks in a 24-hour period.

The purpose of this memorandum is to compare the components of the Forester Creek Industrial Park Project (2009 project) in the 2009 EIR (PBS&J 2009) to those of the proposed project to determine whether the potential air quality impacts of the proposed project are adequately addressed in the certified 2009 EIR. For each issue addressed in Section 4.2, Air Quality, in the 2009 EIR, the following analysis summarizes the air quality impacts of the 2009 project and provides a comparison to the potential impacts of the proposed project.

Table 1 summarizes the changes in land use between the 2009 EIR and the proposed project.

Table 1. Comparison of 2009 Project Components to Proposed Project – Construction

2009 Project	Proposed Project
Industrial Park (463,000 gsf)	Distribution Warehouse (125,756 gsf)
Parking Spaces (490 parking spaces)	Parking Spaces (967 parking spaces)
—	Office Space (17,000 gsf)
Total: 463,000 gsf development; 490 parking spaces	Total: 142,756 gsf development; 967 parking spaces

Notes: 2009 project = Forester Creek Industrial Park Project; gsf = gross square feet

Issue 1: Conflict with Adopted Plans

The project would result in a significant impact to air quality if it conflicts with or obstructs the implementation of the San Diego Regional Air Quality Strategy (RAQS) or applicable portions of the State Implementation Plan (SIP).

Summary of 2009 EIR Impacts

Projects that propose development that is consistent with the growth anticipated by the applicable General Plan and San Diego Association of Governments' growth forecasts would be consistent with the RAQS and SIP because the emissions forecasts for these plans are developed based on the growth assumptions in these plans. The El Cajon General Plan (City of El Cajon 2000) identifies two land use designations for the 2009 project site. The northern portion of the project site is designated for Open Space (OS) uses, and the southern portion of the project site is designated a Special Development Area 1 (SDA-1). A very small portion of the site is also designated for Public Institution (PI). The 2009 project required a General Plan Amendment to change the land use designation of the project site to Industrial Park (IP), which allows industrial development similar to that allowed under the existing Special Development Area 1 (SDA-1) designation. However, the 2009 project did not propose development that was greater than that anticipated in the El Cajon General Plan in areas of the project site that were designated Special Development Area 1 (SDA-1). The area of the site designated Public Institution (PI) was very small, and redesignation of the area to Industrial Park (IP) was determined to have a negligible effect on development of the site. While the proposed low-density industrial project would develop the site with different uses than those normally allowed under the Open Space (OS) and Public Institution (PI) designations, it was determined that this would account for a small portion of the project site and would not substantially affect the development allowable under the El Cajon General Plan. Moreover, all industrial uses are required to comply with the San Diego Air Pollution Control District's (SDAPCD) Rules and Regulations, which are generated by the SIP strategies. Therefore, industrial uses would comply with the SIP. The 2009 project would comply with strategies for attaining and maintaining air quality standards; therefore, the 2009 EIR concluded that the 2009 project would not result in a conflict with or obstruct the implementation of the RAQS or applicable portions of the SIP, and the impact would be less than significant. The General Plan Amendment was approved as part of the 2009 project, and the site is now designated Industrial Park (IP).

Weld Boulevard Distribution Center Project Consistency Evaluation

Implementation of the proposed project would not require a change in land use designation because the site designation was changed to Industrial Park (IP) as part of the approval of the 2009 project. The proposed project

is allowable and consistent with the El Cajon General Plan. The proposed project would also be required to comply with applicable SDAPCD Rules and Regulations. Therefore, the proposed project would have the same impact as the impact identified in the 2009 EIR.

Issue 2: Pollutant Emissions

The 2009 project would result in a significant impact to air quality if it results in emissions above those accounted for in the 2009 EIR and that would violate the SDAPCD's screening level criteria for air quality impacts. These screening thresholds for construction and daily operations are shown in Table 2.

Table 2. Screening Thresholds for Criteria Pollutants

Pollutant	Total Emissions (pounds/day)	Total Emissions (tons/year)
Construction Emissions		
PM ₁₀	100	—
Pm _{2.5}	55 ¹	—
NO _x	250	—
SO _x	250	—
CO	550	—
VOCs	137	—
Operational Emissions		
PM ₁₀	100	15
Pm _{2.5}	55	10
NO _x	250	40
SO _x	250	40
CO	550	100
Lead and Lead Compounds	3.2	0.6
VOCs	137	15

Source: SRA 2009.

Notes: CO = carbon monoxide; NO_x = nitrogen oxide; PM₁₀ = respirable particulate matter; PM_{2.5} = respirable particulate matter; SO_x = sulfur oxide; VOC = volatile organic compound

¹ The recently amended SDAPCD Rule 20.2, New Source Review for Non-Major Stationary Sources lists the screening level for PM_{2.5} at 67 pounds per day; however, Table 2 lists the more conservative 55 pounds per day used in the 2009 EIR.

Summary of 2009 EIR Impacts

Construction and operational criteria pollutant emissions associated with the 2009 project are summarized separately below.

Construction

The 2009 EIR assessed the impacts associated with the construction of four buildings totaling 463,000 square feet on the site. Construction of the 2009 project included three phases taking place between March 2010 and February 2013. Construction of the 2009 project was anticipated to use standard construction equipment, including scrapers, graders, dozers, water trucks, cranes, forklifts, welders, concrete saws, pavers, rollers, and paving equipment. Construction of the 2009 project would include emissions associated with the three phases of project construction. Emissions associated with construction were estimated using the URBEMIS Model, Version 9.2.4. Construction of the 2009 project was determined in the 2009 EIR to not result in the exceedance of any screening level threshold for emissions of criteria pollutants, as summarized in Table 3. In addition, the construction phase of the 2009 project would be short-term in nature. The criteria pollutants emissions during construction were determined to result in a less than significant impact on ambient air quality.

**Table 3. 2009 Project Maximum Daily Construction Emissions (pounds/day)**

Construction Phase	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Phase 1 (Maximum Daily Emissions)	72.10	84.28	68.04	0.05	6.79	5.50
Phase 2 (Maximum Daily Emissions)	69.11	74.71	65.39	0.00	5.71	5.12
Phase 3 (Maximum Daily Emissions)	27.18	64.42	56.69	0.02	5.02	4.57
Screening Level Threshold	137	250	550	250	100	55
<i>Significant Impact?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>

Source: SRA 2009.

Notes: CO = carbon monoxide; NO_x = nitrogen oxide; PM₁₀ = respirable particulate matter; PM_{2.5} = respirable particulate matter; SO_x = sulfur oxide; VOC = volatile organic compound

Operations

Because specific tenants, buildings, or uses were not known during the preparation of the 2009 EIR, emissions associated with specific industrial park operations were not evaluated. Emissions sources associated with industrial uses would be subject to the permitting requirements of the SDAPCD and would be required to comply with SDAPCD Rules and Regulations governing the emissions of air contaminants. As such, the 2009 EIR concluded that potential stationary sources would not be allowed to emit pollutants that would cause a significant impact on the air quality.

The main operational sources of air pollution emissions associated with the 2009 project would be from vehicle and energy use. Mobile source air pollutants were calculated from the Traffic Impact Analysis (LLG 2009). The full buildout of the 2009 project would generate 3,704 average daily trips, averaging 20 miles per trip. The 2009 project would not exceed any of the screening level thresholds established for emissions of criteria pollutants at buildout, as shown in Table 4. Therefore, no significant impacts associated with operational pollutant emissions would occur as a result of the 2009 project.

Table 4. Operational Emissions Relative to Screening Level Thresholds (2009)

Emissions Source	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Pounds/Day						
Energy Use	0.06	0.81	0.68	0.00	0.00	0.00
Landscaping	0.13	0.02	1.60	0.00	0.00	0.00
Architectural Coating	2.71	—	—	—	—	—
Vehicular Emissions	53.85	238.86	497.31	0.91	99.26	20.06
Total (pounds/day)	56.75	239.69	499.59	0.91	99.26	20.06
Screening Level Threshold	137	250	550	250	100	55
<i>Above Thresholds?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
Tons/Year						
Energy Use	0.01	0.15	0.12	0.00	0.00	0.0
Landscaping	0.01	0.00	0.14	0.00	0.00	0.00
Architectural Coatings	0.49	—	—	—	—	—
Vehicular Emissions	6.73	29.86	62.16	0.11	12.41	2.51
Total (tons/year)	7.24	30.01	62.42	0.11	12.41	2.51

**Table 4. Operational Emissions Relative to Screening Level Thresholds (2009)**

Emissions Source	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Screening Level Threshold	15	40	100	100	15	10
<i>Above Thresholds?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>

Source: SRA 2009.

Notes: CO = carbon monoxide; NO_x = nitrogen oxide; PM₁₀ = respirable particulate matter; PM_{2.5} = respirable particulate matter; SO_x = sulfur oxide; VOC = volatile organic compound

Weld Boulevard Distribution Center Project Consistency Evaluation

Construction and operational air quality emissions associated with the proposed project are addressed separately below.

Construction

The construction of the proposed project would include grading, paving, building construction, and architectural coating activities. Criteria pollutant emissions from construction of the proposed project were estimated using CalEEMod, Version 2016.3.2, based on project assumptions provided by the project applicant (Attachment 1, Model Outputs). The start of construction is assumed to begin in April 2021 and last approximately 50 weeks, including grading and site preparation, paving, and building construction and coating. The total disturbance area would be approximately 27 acres, and the estimated material import quantity would be 20,000 cubic yards.

Table 5 provides a comparison between the construction emissions for the 2009 project and the construction assumptions for the proposed project. Table 5 provides the maximum daily emissions that would occur under any construction phase of the 2009 project and proposed project. The building construction phase also includes emissions from architectural coating because the building construction phase and architectural coating phase would occur simultaneously. As shown in Table 5, all criteria emissions associated with construction of the proposed project would be below screening level thresholds. Therefore, no new significant impact would occur as a result of construction of the proposed project. This impact would be the same as the impact identified in the 2009 EIR.

Table 5. Proposed Project Construction Maximum Daily Air Pollutant Emissions (pounds/day)

Emissions Source	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
2009 Project						
Maximum Daily Construction Emissions	72.10	84.28	68.04	0.05	6.79	5.50
Proposed Project						
Grading	4.63	54.55	34.43	0.09	9.47	5.49
Paving	2.37	17.00	18.95	0.04	1.32	1.65
Building Construction and Coating	112.13	39.22	26.49	0.08	2.70	1.57
Maximum Daily Emissions	112.13	54.55	34.43	0.09	9.47	5.49
Screening Level Threshold	137	250	550	250	100	55
<i>Above Threshold?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>

Notes: CO = carbon monoxide; NO_x = nitrogen oxide; PM₁₀ = respirable particulate matter; PM_{2.5} = respirable particulate matter; SO_x = sulfur oxide; VOC = volatile organic compound

Operation

The operational emissions associated with the proposed project are listed in Table 6. Similar to the 2009 project, vehicle emissions would be the greatest source of operational emissions from the proposed project. The proposed



project would result in fewer operational trips than the 2009 project. The proposed project would result in 1,994 average daily trips compared to the 3,704 average daily trips calculated for the 2009 project.¹ As illustrated in Table 4, the operation of the proposed project would not result in emissions that would violate any air quality standards. Emissions would be reduced compared to emissions estimated in the 2009 EIR. The proposed project would result in the same less than significant impact as the impact identified for the 2009 project.

Table 6. Proposed Project Operational Pollutant Emissions

Emissions Source	VOC/ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Maximum Daily Emissions (pounds/day)						
2009 Project	56.75	239.69	499.59	0.91	99.26	20.06
Proposed Project	11.52	34.70	97.68	0.37	32.37	8.86
Screening Level Threshold	137	250	550	250	100	55
<i>Above Screening Level Threshold?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>
Annual Emissions (tons/day)						
2009 Project	7.24	30.01	62.42	0.11	12.41	2.51
Proposed Project	1.49	3.68	9.56	0.04	3.23	0.89
Screening Level Threshold	15	40	100	40	15	10
<i>Above Screening Level Threshold?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>

Notes: CO = carbon monoxide; NO_x = nitrogen oxide; PM₁₀ = respirable particulate matter; PM_{2.5} = respirable particulate matter; ROG = reactive organic gas; SO_x = sulfur oxide; VOC = volatile organic compound

Summary

Construction and operation of the proposed project would not exceed the 2009 project emissions or screening level thresholds for any criteria pollutants. Therefore, the proposed project would not result in any new significant environmental effects or a substantial increase in the severity of the previously identified significant effects regarding criteria pollutant emissions. This less than significant air quality impact would be the same as the impact identified in the 2009 EIR.

Issue 3: Sensitive Receptors

The project would have a significant impact on ambient air quality if it would expose sensitive receptors to substantial pollutant concentrations. With regard to evaluating whether a project would have a significant impact on sensitive receptors, air quality regulators typically define sensitive receptors as schools, hospitals, resident care facilities, or day care facilities. The project site is adjacent to a residential area, which is considered a sensitive receptor.

Summary of 2009 EIR Impacts

Carbon monoxide (CO) “hot spots” were analyzed in accordance with the California Department of Transportation Intelligent Transportation Systems Transportation Project-Level Carbon Monoxide Protocol, under which CO hot spots are typically evaluated when (a) the level of service (LOS) of an intersection or roadway decreases to LOS E or worse, (b) signalization and/or channelization is added to an intersection, and (c) sensitive receptors, such as residences, schools, and hospitals, are in the vicinity of the affected intersection or roadway segment. The 2009 Traffic Impact Analysis identified three intersections for which a failing LOS was predicted. The 2009 EIR estimated future background CO concentrations in the project vicinity to determine the potential impact and evaluate the

¹ Assuming that for 9 months out of the year, average daily trips are estimated at 1,476 trips per day, but during holiday season, trips increase to 3,548 per day.



potential for CO hot spots due to the 2009 project. The predicted CO concentrations were determined to be substantially below the 1-hour and 8-hour National Ambient Air Quality Standards and California Ambient Air Quality Standards; therefore, no exceedances of the CO standard were predicted, and the 2009 EIR concluded that the 2009 project would not cause or contribute to a violation of this air quality standard.

To evaluate whether the 2009 project could pose a significant impact to nearby sensitive receptors, an evaluation of diesel exhaust particulate matter was also conducted. Diesel exhaust particulate matter is known to the State of California as carcinogenic. Because diesel exhaust particulate matter is considered to be carcinogenic, long-term exposure to diesel exhaust emissions may have the potential to result in adverse health impacts. Diesel exhaust particulate matter would be emitted during construction due to the operation of heavy equipment on the site during construction. However, due to the short-term nature of construction, it was determined that the impact would be less than significant.

Due to the nature of the 2009 project as an industrial development, the 2009 project operations would also result in diesel exhaust particulate matter emissions from truck traffic to and from the site. A health risk evaluation was conducted for particulate emissions in the 2009 EIR to determine if there would be a significant impact associated with exposure to diesel exhaust particulate matter. The maximum residential excess cancer risk associated with exposure to diesel particulate from project-generated trips was estimated in the 2009 EIR to be 0.984 in 1 million, which is below the 2009 EIR significance threshold of 1 in 1 million. The maximum chronic non-cancer hazard index at the nearest residence was 0.000618, which is below the significance threshold of 1. Therefore, the impact on sensitive receptors was concluded to be less than significant.

Weld Boulevard Distribution Center Project Consistency Evaluation

Based on the 2020 Transportation Impact Analysis (LLG 2020), under a post-cumulative scenario, all intersections in the project vicinity would operate at acceptable LOS. Therefore, per the California Department of Transportation Intelligent Transportation Systems Transportation Project-Level Carbon Monoxide Protocol, it can be assumed that no exceedances of the CO standard would occur.

With respect to diesel exhaust particulate matter, the proposed project would also have short-term diesel exhaust particulate matter emissions associated with the operation of heavy equipment during construction. Similar to the 2009 project, construction would be short-term. The duration of construction would be reduced compared to the 2009 project. As stated under Issue 2, the proposed project would yield fewer operational trips than the 2009 project, including fewer truck trips. An average of 370 daily truck trips were anticipated for the 2009 project, compared to a maximum of 96 truck trips to the proposed project during peak season. Moreover, the California Air Resources Board recommends avoiding siting new sensitive land uses within 1,000 feet of a distribution center that accommodates more than 100 trucks per day (CARB 2005). The maximum number of truck trips during peak season associated with the proposed project is below the 100 trucks per day threshold. Since the higher number of truck trips assumed in the 2009 EIR did not result in a significant impact, it can be assumed that potential health risks from truck traffic from the proposed project, which would have fewer truck trips, would similarly have a less than significant impact.

Summary

Construction and operation of the proposed project would not result in a new CO hot spot, and diesel exhaust particulate matter would be reduced compared to emissions estimated for the 2009 project. Therefore, a less than significant impact to sensitive receptors would occur.

Issue 4: Odors

The project would have a significant impact on ambient air quality if it would create objectionable odors affecting a substantial number of people.

Summary of 2009 EIR Impacts

Construction and operational impacts associated with the 2009 project are summarized separately below.



Construction

During construction of the 2009 project, diesel equipment operating on the site could generate some nuisance odors; however, due to the temporary nature of construction, odors associated with project construction were determined to not be significant.

Operation

The 2009 project could produce objectionable odors, which would result from volatile organic compounds (VOCs), ammonia, carbon dioxide, hydrogen sulfide, methane, alcohols, aldehydes, amines, carbonyls, esters, disulfides dust, and endotoxins from operational phases. However, these substances, if present at all, would be anticipated to occur only in trace amounts (less than 1 microgram per cubic meter [$\mu\text{g}/\text{m}^3$]). To evaluate whether odors would affect nearby sensitive receptors, the SCREEN3 odor dilution model was run using a unit emissions rate of 1 gram per second, and the amount of dilution was projected at distances from the project site. Based on this model, odors from the project site would be diluted fourfold from 15 feet from the source to 115 feet from the source. The nearest sensitive receptor to the project site is the residences approximately 150 feet away, and it was determined that odors would be diluted at the nearest property line.

Summary

The 2009 project would not create objectionable odors affecting a substantial number of people during construction or operation; therefore, impacts were determined to be less than significant.

Weld Boulevard Distribution Center Consistency Evaluation

Construction and operational impacts associated with the proposed project are addressed separately below.

Construction

Similar to the 2009 project, odors associated with construction of the proposed project would be temporary. The proposed project would require similar construction practices. The duration of construction would be reduced from approximately 3 years to 50 weeks under the proposed project; therefore, the potential odor exposure time of nearby residences would be reduced. The proposed project would result in the same less than significant impact as the impact identified for the 2009 project.

Operation

Objectionable odors associated with the operation of the proposed project may similarly exist in trace amounts, but potential exposure would be likely less than that identified for the 2009 project because of the reduced project size and increased distance from nearby receptors. The closest residences to the proposed building under the 2009 project were located approximately 150 feet west and north of the building. The nearest residence to the proposed project would be located approximately 300 feet north of the proposed building. The proposed project does not include any new sources of operational odor that were not addressed in the 2009 EIR. The proposed project would result in the same less than significant impact as the 2009 project.

Summary

Consistent with the conclusions for the 2009 project, the proposed project would not create objectionable odors affecting a substantial number of people. Therefore, the proposed project would result in a less than significant impact, the same conclusion as identified in the 2009 EIR.

Summary of Air Quality Impacts

Impacts related to air quality from construction and operation of the proposed project would be the same as those identified in the 2009 EIR. The proposed project would not result in additional net emissions of criteria pollutants and would not conflict with any state or national air quality standards. The proposed project would not include any new sources of emissions that would exceed significance thresholds for criteria pollutants. Furthermore, CO concentrations and objectionable odors would be less than those identified in the 2009 EIR because the proposed project is reduced compared to the 2009 project. No new impacts would occur compared to those identified in

the 2009 EIR. Therefore, the proposed project would not result in any new significant environmental effects or a substantial increase in the severity of previously identified significant effects related to air quality.

References

CARB (California Air Resources Board). 2005. Air Quality and Land Use Handbook: Community Health Perspective.

City of El Cajon. 2001. City of El Cajon General Plan 2000. January.

LLG (Linscott, Law & Greenspan, Engineers). 2009. Traffic Impact Analysis – Forester Creek Industrial Park Project.

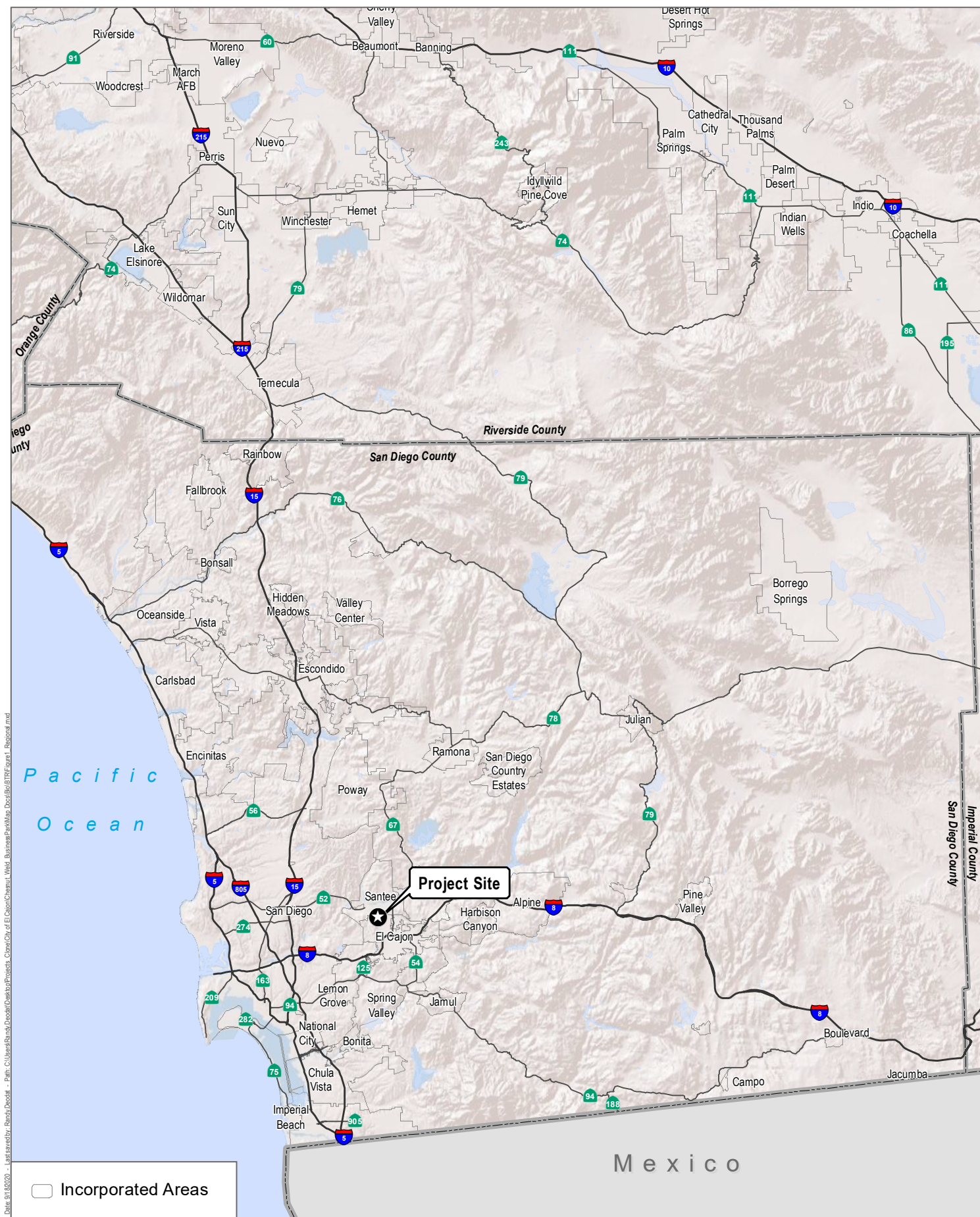
LLG. 2020. Weld Boulevard Distribution Center – Transportation Impact Analysis. December.

PBS&J 2009. Forester Creek Industrial Park Project Environmental Impact Report. March 13.

SRA (Scientific Resources Associated). 2009. Air Quality Technical Report for the Forester Creek Industrial Park. January.



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Source: ESRI 2020.

Figure 1

Regional Location

Weld Boulevard Distribution Center Project

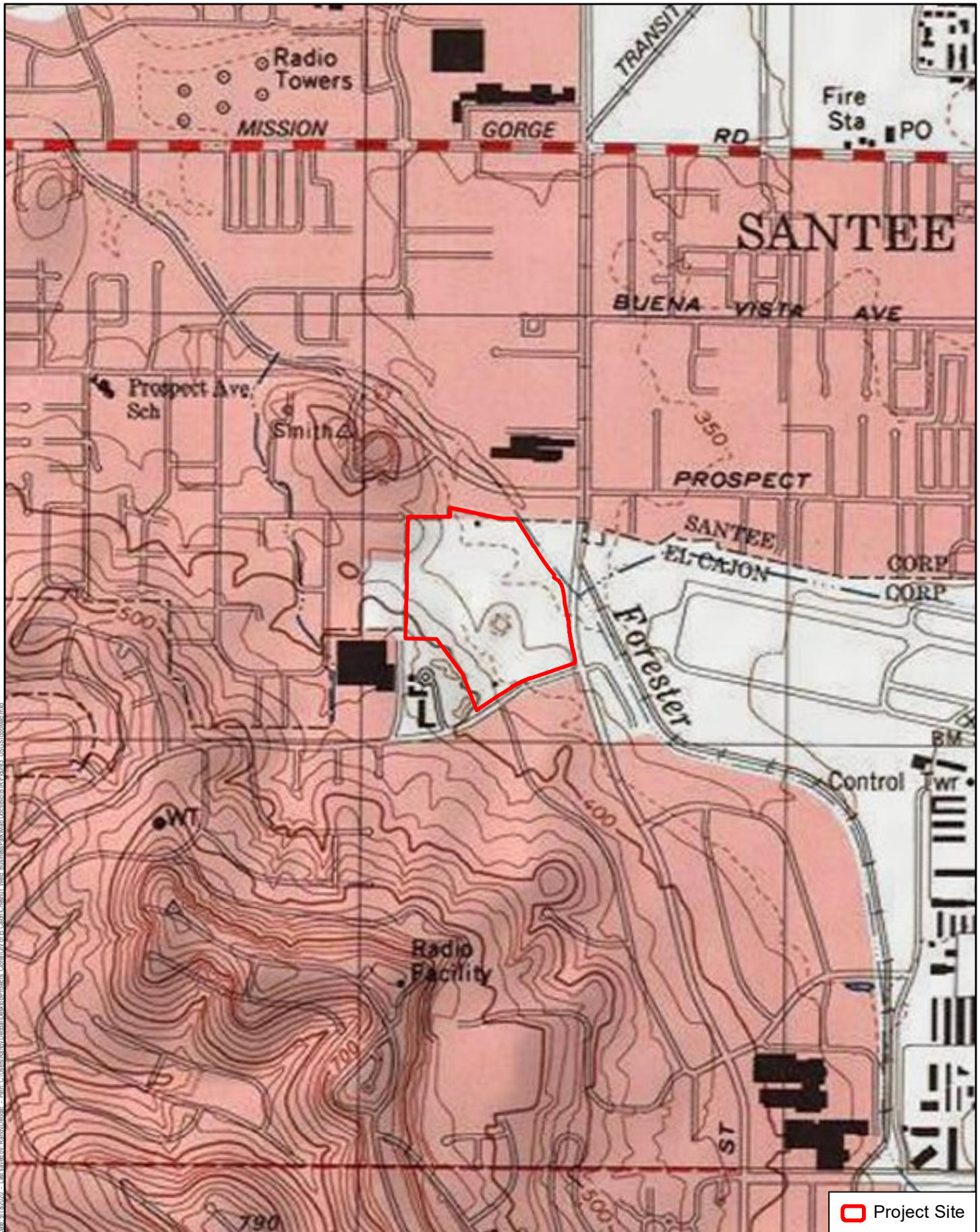


Harris & Associates





Date: 9/18/2020 - 1:14 PM
User: jgarcia
Project: Cuyamaca St Distribution Center
Source: SanGIS Imagery 2017.



Source: USGS 1975; SanGIS Imagery 2017.



Harris & Associates



0 500 1,000
Feet

Figure 3

USGS Topographic Map

Weld Boulevard Distribution Center Project

Path: C:\Users\Randy Deodan\Desktop\Projects - Clone\City of El Cajon\Chesnut Weld BusinessPark\Map Docs\CEOA Addendum



PROTOTYPE PARKING BREAKDOWN			
PARKING	REQUIRED	PROPOSED	GAP
ASSOCIATE SPACES	172	168	-4
ANZL MANAGEMENT SPACES (Support)	15	15	0
DSP MANAGEMENT SPACES	28	33	+5
VAN PERSONAL VEHICLE SPACES	72	110	+38
CUSTOMER SPACES	6	6	0
GUEST SPACES	3	3	0
TOTAL ASSOCIATE PARKING	296	335	+39
VAN PERSONAL	144	144	0
VAN PARKING	413	461	+48
VAN BUFFER	25	27	+2
TOTAL VAN	582	632	+50
TOTAL PARKING	878	967	+89
ULTRAVAN LOADING	72	72	0
VAN STAGING	72	72	0
LOADING DOCK SPACES	10	15	+5
TRAILER PARKING SPACES	3	13	+10

This conceptual design is based upon a preliminary review of entitlement requirements and on unverified and possibly incomplete site and/or building information, and is intended merely to assist in exploring how the project might be developed.

Boundary Source:
CIVIL CAD FILE



Source: Ware Malcomb 2020.

Figure 4
Proposed Site Plan

Weld Boulevard Distribution Center Project

Attachment 1. Model Outputs

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Weld Distribution Center Project - San Diego Air Basin, Summer

Weld Distribution Center Project

San Diego Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	125.00	1000sqft	2.87	125,000.00	0
General Office Building	17.00	1000sqft	0.39	17,000.00	0
Parking Lot	750.00	1000sqft	17.22	750,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Weld Distribution Center Project - San Diego Air Basin, Summer

Project Characteristics -

Land Use -

Construction Phase - Construction schedule provided by client.

Off-road Equipment - Client indicated use of off highway truck for this phase.

Off-road Equipment - Off-hwy truck needed to move cement.

Off-road Equipment -

Grading - Acres from grading plan.

Trips and VMT - Coating overlaps with paving.

Vehicle Trips - Trips reflect average of peak and average season.

Fleet Mix - Trucks estimated conservatively at 3% of trips.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	35.00
tblConstructionPhase	NumDays	370.00	70.00
tblConstructionPhase	NumDays	35.00	80.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	PhaseEndDate	2/10/2023	5/20/2022
tblConstructionPhase	PhaseEndDate	12/16/2022	11/12/2021
tblConstructionPhase	PhaseEndDate	7/16/2021	8/6/2021
tblConstructionPhase	PhaseEndDate	1/13/2023	4/1/2022
tblConstructionPhase	PhaseStartDate	1/14/2023	4/2/2022
tblConstructionPhase	PhaseStartDate	7/17/2021	8/7/2021
tblConstructionPhase	PhaseStartDate	5/29/2021	4/19/2021
tblConstructionPhase	PhaseStartDate	12/17/2022	11/13/2021
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03

Weld Distribution Center Project - San Diego Air Basin, Summer

tblFleetMix	LDA	0.60	0.59
tblFleetMix	LDA	0.60	0.59
tblFleetMix	LDA	0.60	0.59
tblGrading	AcresOfGrading	200.00	26.90
tblGrading	MaterialExported	0.00	20,000.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblTripsAndVMT	WorkerTripNumber	20.00	60.00
tblTripsAndVMT	WorkerTripNumber	373.00	60.00
tblTripsAndVMT	WorkerTripNumber	18.00	60.00
tblTripsAndVMT	WorkerTripNumber	75.00	0.00
tblVehicleTrips	CC_TL	7.30	11.70
tblVehicleTrips	CNW_TL	7.30	11.70
tblVehicleTrips	CW_TL	9.50	11.70
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	77.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	28.38
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	28.38
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	28.38

Weld Distribution Center Project - San Diego Air Basin, Summer

2.0 Emissions Summary**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.6307	54.5451	34.4296	0.0910	7.4527	2.0132	9.4659	3.6344	1.8530	5.4875	0.0000	9,138.458 9	9,138.458 9	2.1902	0.0000	9,193.213 7
2022	109.1270	14.2732	18.5920	0.0375	0.4929	0.6813	1.1741	0.1307	0.6268	0.7575	0.0000	3,642.431 3	3,642.431 3	1.0386	0.0000	3,668.395 7
Maximum	109.1270	54.5451	34.4296	0.0910	7.4527	2.0132	9.4659	3.6344	1.8530	5.4875	0.0000	9,138.458 9	9,138.458 9	2.1902	0.0000	9,193.213 7

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.6307	54.5451	34.4296	0.0910	7.4527	2.0132	9.4659	3.6344	1.8530	5.4875	0.0000	9,138.458 9	9,138.458 9	2.1902	0.0000	9,193.213 7
2022	109.1270	14.2732	18.5920	0.0375	0.4929	0.6813	1.1741	0.1307	0.6268	0.7575	0.0000	3,642.431 3	3,642.431 3	1.0386	0.0000	3,668.395 7
Maximum	109.1270	54.5451	34.4296	0.0910	7.4527	2.0132	9.4659	3.6344	1.8530	5.4875	0.0000	9,138.458 9	9,138.458 9	2.1902	0.0000	9,193.213 7

Weld Distribution Center Project - San Diego Air Basin, Summer

[illegible]

Weld Distribution Center Project - San Diego Air Basin, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.3574	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1952	0.1952	5.1000e-004		0.2081
Energy	0.0163	0.1483	0.1245	8.9000e-004		0.0113	0.0113		0.0113	0.0113		177.9146	177.9146	3.4100e-003	3.2600e-003	178.9718
Mobile	7.1435	34.5474	97.4598	0.3708	32.0675	0.2919	32.3593	8.5722	0.2728	8.8450		37,768.0832	37,768.0832	1.8689		37,814.8044
Total	11.5173	34.6965	97.6756	0.3717	32.0675	0.3035	32.3709	8.5722	0.2844	8.8566		37,946.1930	37,946.1930	1.8728	3.2600e-003	37,993.9843

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.3574	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1952	0.1952	5.1000e-004		0.2081
Energy	0.0163	0.1483	0.1245	8.9000e-004		0.0113	0.0113		0.0113	0.0113		177.9146	177.9146	3.4100e-003	3.2600e-003	178.9718
Mobile	7.1435	34.5474	97.4598	0.3708	32.0675	0.2919	32.3593	8.5722	0.2728	8.8450		37,768.0832	37,768.0832	1.8689		37,814.8044
Total	11.5173	34.6965	97.6756	0.3717	32.0675	0.3035	32.3709	8.5722	0.2844	8.8566		37,946.1930	37,946.1930	1.8728	3.2600e-003	37,993.9843

Weld Distribution Center Project - San Diego Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/19/2021	8/6/2021	5	80	
2	Building Construction	Building Construction	8/7/2021	11/12/2021	5	70	
3	Paving	Paving	11/13/2021	4/1/2022	5	100	
4	Architectural Coating	Architectural Coating	4/2/2022	5/20/2022	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 26.896

Acres of Paving: 17.22

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 213,000; Non-Residential Outdoor: 71,000; Striped Parking Area: 45,000 (Architectural Coating – sqft)

OffRoad Equipment

Weld Distribution Center Project - San Diego Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Off-Highway Trucks	1	6.00	402	0.38
Paving	Off-Highway Trucks	1	6.00	402	0.38
Grading	Excavators	2	8.00	158	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
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

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
Grading	8	60.00	0.00	2,500.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	60.00	146.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Weld Distribution Center Project - San Diego Air Basin, Summer

3.2 Grading - 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	lb/day										lb/day					
Fugitive Dust					6.4138	0.0000	6.4138	3.3541	0.0000	3.3541			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.043 4	6,007.043 4	1.9428		6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	6.4138	1.9853	8.3991	3.3541	1.8265	5.1806		6,007.043 4	6,007.043 4	1.9428		6,055.613 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2320	8.0104	1.9597	0.0241	0.5461	0.0244	0.5705	0.1497	0.0234	0.1730		2,642.750 9	2,642.750 9	0.2335		2,648.587 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2075	0.1348	1.5914	4.9000e-003	0.4929	3.4000e-003	0.4963	0.1307	3.1400e-003	0.1339		488.6645	488.6645	0.0140		489.0132
Total	0.4395	8.1452	3.5511	0.0290	1.0389	0.0278	1.0668	0.2804	0.0265	0.3069		3,131.415 4	3,131.415 4	0.2474		3,137.600 3

Weld Distribution Center Project - San Diego Air Basin, Summer

3.2 Grading - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4138	0.0000	6.4138	3.3541	0.0000	3.3541			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	6.4138	1.9853	8.3991	3.3541	1.8265	5.1806	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2320	8.0104	1.9597	0.0241	0.5461	0.0244	0.5705	0.1497	0.0234	0.1730		2,642.750 9	2,642.750 9	0.2335		2,648.587 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2075	0.1348	1.5914	4.9000e-003	0.4929	3.4000e-003	0.4963	0.1307	3.1400e-003	0.1339		488.6645	488.6645	0.0140		489.0132
Total	0.4395	8.1452	3.5511	0.0290	1.0389	0.0278	1.0668	0.2804	0.0265	0.3069		3,131.415 4	3,131.415 4	0.2474		3,137.600 3

Weld Distribution Center Project - San Diego Air Basin, Summer

3.3 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	lb/day										lb/day					
Off-Road	2.3554	21.3796	19.2785	0.0368		1.1034	1.1034		1.0345	1.0345		3,512.256 2	3,512.256 2	0.9261		3,535.409 6
Total	2.3554	21.3796	19.2785	0.0368		1.1034	1.1034		1.0345	1.0345		3,512.256 2	3,512.256 2	0.9261		3,535.409 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4415	14.8671	3.7887	0.0395	0.9884	0.0312	1.0196	0.2845	0.0299	0.3144		4,253.738 4	4,253.738 4	0.3039		4,261.337 0
Worker	0.2075	0.1348	1.5914	4.9000e-003	0.4929	3.4000e-003	0.4963	0.1307	3.1400e-003	0.1339		488.6645	488.6645	0.0140		489.0132
Total	0.6490	15.0019	5.3801	0.0444	1.4813	0.0346	1.5159	0.4153	0.0330	0.4483		4,742.402 9	4,742.402 9	0.3179		4,750.350 2

Weld Distribution Center Project - San Diego Air Basin, Summer

3.3 Building Construction - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3554	21.3796	19.2785	0.0368		1.1034	1.1034		1.0345	1.0345	0.0000	3,512.256 2	3,512.256 2	0.9261		3,535.409 6
Total	2.3554	21.3796	19.2785	0.0368		1.1034	1.1034		1.0345	1.0345	0.0000	3,512.256 2	3,512.256 2	0.9261		3,535.409 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4415	14.8671	3.7887	0.0395	0.9884	0.0312	1.0196	0.2845	0.0299	0.3144		4,253.738 4	4,253.738 4	0.3039		4,261.337 0
Worker	0.2075	0.1348	1.5914	4.9000e-003	0.4929	3.4000e-003	0.4963	0.1307	3.1400e-003	0.1339		488.6645	488.6645	0.0140		489.0132
Total	0.6490	15.0019	5.3801	0.0444	1.4813	0.0346	1.5159	0.4153	0.0330	0.4483		4,742.402 9	4,742.402 9	0.3179		4,750.350 2

Weld Distribution Center Project - San Diego Air Basin, Summer

3.4 Paving - 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	lb/day										lb/day					
Off-Road	1.7123	16.8864	17.3700	0.0328		0.8232	0.8232		0.7574	0.7574		3,170.8976	3,170.8976	1.0255		3,196.5359
Paving	0.4512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.1634	16.8864	17.3700	0.0328		0.8232	0.8232		0.7574	0.7574		3,170.8976	3,170.8976	1.0255		3,196.5359

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2075	0.1348	1.5914	4.9000e-003	0.4929	3.4000e-003	0.4963	0.1307	3.1400e-003	0.1339		488.6645	488.6645	0.0140		489.0132
Total	0.2075	0.1348	1.5914	4.9000e-003	0.4929	3.4000e-003	0.4963	0.1307	3.1400e-003	0.1339		488.6645	488.6645	0.0140		489.0132

Weld Distribution Center Project - San Diego Air Basin, Summer

3.4 Paving - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7123	16.8864	17.3700	0.0328		0.8232	0.8232		0.7574	0.7574	0.0000	3,170.8976	3,170.8976	1.0255		3,196.5359
Paving	0.4512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.1634	16.8864	17.3700	0.0328		0.8232	0.8232		0.7574	0.7574	0.0000	3,170.8976	3,170.8976	1.0255		3,196.5359

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2075	0.1348	1.5914	4.9000e-003	0.4929	3.4000e-003	0.4963	0.1307	3.1400e-003	0.1339		488.6645	488.6645	0.0140		489.0132
Total	0.2075	0.1348	1.5914	4.9000e-003	0.4929	3.4000e-003	0.4963	0.1307	3.1400e-003	0.1339		488.6645	488.6645	0.0140		489.0132

Weld Distribution Center Project - San Diego Air Basin, Summer

3.4 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5011	14.1502	17.1121	0.0328		0.6779	0.6779		0.6237	0.6237		3,171.6955	3,171.6955	1.0258		3,197.3402
Paving	0.4512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9523	14.1502	17.1121	0.0328		0.6779	0.6779		0.6237	0.6237		3,171.6955	3,171.6955	1.0258		3,197.3402

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1962	0.1230	1.4798	4.7200e-003	0.4929	3.3300e-003	0.4962	0.1307	3.0700e-003	0.1338		470.7359	470.7359	0.0128		471.0555
Total	0.1962	0.1230	1.4798	4.7200e-003	0.4929	3.3300e-003	0.4962	0.1307	3.0700e-003	0.1338		470.7359	470.7359	0.0128		471.0555

Weld Distribution Center Project - San Diego Air Basin, Summer

3.4 Paving - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5011	14.1502	17.1121	0.0328		0.6779	0.6779		0.6237	0.6237	0.0000	3,171.6955	3,171.6955	1.0258		3,197.3402
Paving	0.4512					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9523	14.1502	17.1121	0.0328		0.6779	0.6779		0.6237	0.6237	0.0000	3,171.6955	3,171.6955	1.0258		3,197.3402

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1962	0.1230	1.4798	4.7200e-003	0.4929	3.3300e-003	0.4962	0.1307	3.0700e-003	0.1338		470.7359	470.7359	0.0128		471.0555
Total	0.1962	0.1230	1.4798	4.7200e-003	0.4929	3.3300e-003	0.4962	0.1307	3.0700e-003	0.1338		470.7359	470.7359	0.0128		471.0555

Weld Distribution Center Project - San Diego Air Basin, Summer

3.5 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	108.9225					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	109.1270	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

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

Weld Distribution Center Project - San Diego Air Basin, Summer

3.5 Architectural Coating - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	108.9225					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	109.1270	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

Weld Distribution Center Project - San Diego Air Basin, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.1435	34.5474	97.4598	0.3708	32.0675	0.2919	32.3593	8.5722	0.2728	8.8450		37,768.08 32	37,768.08 32	1.8689		37,814.80 44
Unmitigated	7.1435	34.5474	97.4598	0.3708	32.0675	0.2919	32.3593	8.5722	0.2728	8.8450		37,768.08 32	37,768.08 32	1.8689		37,814.80 44

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	3,548.00	3,548.00	3,548.00	15,110,222	15,110,222
Total	3,548.00	3,548.00	3,548.00	15,110,222	15,110,222

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	11.70	11.70	11.70	59.00	0.00	41.00	100	0	0

Weld Distribution Center Project - San Diego Air Basin, Summer

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.592621	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.030000	0.001926	0.001932	0.006016	0.000753	0.001122
Parking Lot	0.592621	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.030000	0.001926	0.001932	0.006016	0.000753	0.001122
Unrefrigerated Warehouse-No Rail	0.592621	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.030000	0.001926	0.001932	0.006016	0.000753	0.001122

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0163	0.1483	0.1245	8.9000e-004		0.0113	0.0113		0.0113	0.0113		177.9146	177.9146	3.4100e-003	3.2600e-003	178.9718
NaturalGas Unmitigated	0.0163	0.1483	0.1245	8.9000e-004		0.0113	0.0113		0.0113	0.0113		177.9146	177.9146	3.4100e-003	3.2600e-003	178.9718

Weld Distribution Center Project - San Diego Air Basin, Summer

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	940.356	0.0101	0.0922	0.0774	5.5000e-004		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003		110.6301	110.6301	2.1200e-003	2.0300e-003	111.2876
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
Unrefrigerated Warehouse-No Rail	571.918	6.1700e-003	0.0561	0.0471	3.4000e-004		4.2600e-003	4.2600e-003		4.2600e-003	4.2600e-003		67.2845	67.2845	1.2900e-003	1.2300e-003	67.6843
Total		0.0163	0.1483	0.1245	8.9000e-004		0.0113	0.0113		0.0113	0.0113		177.9146	177.9146	3.4100e-003	3.2600e-003	178.9719

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	lb/day										lb/day					
General Office Building	0.940356	0.0101	0.0922	0.0774	5.5000e-004		7.0100e-003	7.0100e-003		7.0100e-003	7.0100e-003		110.6301	110.6301	2.1200e-003	2.0300e-003	111.2876
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
Unrefrigerated Warehouse-No Rail	0.571918	6.1700e-003	0.0561	0.0471	3.4000e-004		4.2600e-003	4.2600e-003		4.2600e-003	4.2600e-003		67.2845	67.2845	1.2900e-003	1.2300e-003	67.6843
Total		0.0163	0.1483	0.1245	8.9000e-004		0.0113	0.0113		0.0113	0.0113		177.9146	177.9146	3.4100e-003	3.2600e-003	178.9719

Weld Distribution Center Project - San Diego Air Basin, Summer

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.3574	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1952	0.1952	5.1000e-004		0.2081
Unmitigated	4.3574	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1952	0.1952	5.1000e-004		0.2081

Weld Distribution Center Project - San Diego Air Basin, Summer

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3045					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.4800e-003	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1952	0.1952	5.1000e-004		0.2081
Total	4.3574	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1952	0.1952	5.1000e-004		0.2081

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0445					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3045					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.4800e-003	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1952	0.1952	5.1000e-004		0.2081
Total	4.3574	8.3000e-004	0.0912	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1952	0.1952	5.1000e-004		0.2081

7.0 Water Detail

Weld Distribution Center Project - San Diego Air Basin, Summer

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation

Weld Distribution Center Project - San Diego Air Basin, Annual

Weld Distribution Center Project

San Diego Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	125.00	1000sqft	2.87	125,000.00	0
General Office Building	17.00	1000sqft	0.39	17,000.00	0
Parking Lot	750.00	1000sqft	17.22	750,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Weld Distribution Center Project - San Diego Air Basin, Annual

Project Characteristics -

Land Use -

Construction Phase - Construction schedule provided by client.

Off-road Equipment - Client indicated use of off highway truck for this phase.

Off-road Equipment - Off-hwy truck needed to move cement.

Off-road Equipment -

Grading - Acres from grading plan.

Trips and VMT - Coating overlaps with paving.

Vehicle Trips - Trips reflect average of peak and average season.

Fleet Mix - Trucks estimated conservatively at 3% of trips.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	35.00
tblConstructionPhase	NumDays	370.00	70.00
tblConstructionPhase	NumDays	35.00	80.00
tblConstructionPhase	NumDays	20.00	100.00
tblConstructionPhase	PhaseEndDate	2/10/2023	5/20/2022
tblConstructionPhase	PhaseEndDate	12/16/2022	11/12/2021
tblConstructionPhase	PhaseEndDate	7/16/2021	8/6/2021
tblConstructionPhase	PhaseEndDate	1/13/2023	4/1/2022
tblConstructionPhase	PhaseStartDate	1/14/2023	4/2/2022
tblConstructionPhase	PhaseStartDate	7/17/2021	8/7/2021
tblConstructionPhase	PhaseStartDate	5/29/2021	4/19/2021
tblConstructionPhase	PhaseStartDate	12/17/2022	11/13/2021
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03
tblFleetMix	HHD	0.02	0.03

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tblFleetMix	LDA	0.60	0.59
tblFleetMix	LDA	0.60	0.59
tblFleetMix	LDA	0.60	0.59
tblGrading	AcresOfGrading	200.00	26.90
tblGrading	MaterialExported	0.00	20,000.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblTripsAndVMT	WorkerTripNumber	20.00	60.00
tblTripsAndVMT	WorkerTripNumber	373.00	60.00
tblTripsAndVMT	WorkerTripNumber	18.00	60.00
tblTripsAndVMT	WorkerTripNumber	75.00	0.00
tblVehicleTrips	CC_TL	7.30	11.70
tblVehicleTrips	CNW_TL	7.30	11.70
tblVehicleTrips	CW_TL	9.50	11.70
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	77.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.68	15.95
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	1.68	15.95
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	1.68	15.95

Weld Distribution Center Project - San Diego Air Basin, Annual

2.0 Emissions Summary**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3324	3.7652	2.5731	7.1000e-003	0.3564	0.1349	0.4912	0.1617	0.1248	0.2865	0.0000	647.5170	647.5170	0.1358	0.0000	650.9123
2022	1.9796	0.4889	0.6331	1.2600e-003	0.0156	0.0236	0.0392	4.1600e-003	0.0218	0.0260	0.0000	111.1403	111.1403	0.0309	0.0000	111.9127
Maximum	1.9796	3.7652	2.5731	7.1000e-003	0.3564	0.1349	0.4912	0.1617	0.1248	0.2865	0.0000	647.5170	647.5170	0.1358	0.0000	650.9123

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.3324	3.7652	2.5731	7.1000e-003	0.3564	0.1349	0.4912	0.1617	0.1248	0.2865	0.0000	647.5166	647.5166	0.1358	0.0000	650.9118
2022	1.9796	0.4889	0.6331	1.2600e-003	0.0156	0.0236	0.0392	4.1600e-003	0.0218	0.0260	0.0000	111.1402	111.1402	0.0309	0.0000	111.9126
Maximum	1.9796	3.7652	2.5731	7.1000e-003	0.3564	0.1349	0.4912	0.1617	0.1248	0.2865	0.0000	647.5166	647.5166	0.1358	0.0000	650.9118

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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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-19-2021	7-18-2021	1.9232	1.9232
2	7-19-2021	10-18-2021	1.4286	1.4286
3	10-19-2021	1-18-2022	0.7979	0.7979
4	1-19-2022	4-18-2022	1.1003	1.1003
5	4-19-2022	7-18-2022	1.2633	1.2633
		Highest	1.9232	1.9232

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7944	7.0000e-005	8.2100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0170
Energy	2.9800e-003	0.0271	0.0227	1.6000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	339.0188	339.0188	0.0130	3.1200e-003	340.2736
Mobile	0.6969	3.6528	9.5330	0.0363	3.2027	0.0299	3.2326	0.8578	0.0279	0.8858	0.0000	3,358.413 3	3,358.413 3	0.1716	0.0000	3,362.702 1
Waste						0.0000	0.0000		0.0000	0.0000	27.0607	0.0000	27.0607	1.5992	0.0000	67.0418
Water						0.0000	0.0000		0.0000	0.0000	10.1292	142.5884	152.7176	1.0461	0.0258	186.5445
Total	1.4943	3.6800	9.5640	0.0365	3.2027	0.0320	3.2347	0.8578	0.0300	0.8879	37.1899	3,840.036 4	3,877.226 3	2.8300	0.0289	3,956.579 0

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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	0.7944	7.0000e-005	8.2100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0170
Energy	2.9800e-003	0.0271	0.0227	1.6000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	339.0188	339.0188	0.0130	3.1200e-003	340.2736
Mobile	0.6969	3.6528	9.5330	0.0363	3.2027	0.0299	3.2326	0.8578	0.0279	0.8858	0.0000	3,358.413 3	3,358.413 3	0.1716	0.0000	3,362.702 1
Waste						0.0000	0.0000		0.0000	0.0000	27.0607	0.0000	27.0607	1.5992	0.0000	67.0418
Water						0.0000	0.0000		0.0000	0.0000	10.1292	142.5884	152.7176	1.0461	0.0258	186.5445
Total	1.4943	3.6800	9.5640	0.0365	3.2027	0.0320	3.2347	0.8578	0.0300	0.8879	37.1899	3,840.036 4	3,877.226 3	2.8300	0.0289	3,956.579 0

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/19/2021	8/6/2021	5	80	
2	Building Construction	Building Construction	8/7/2021	11/12/2021	5	70	
3	Paving	Paving	11/13/2021	4/1/2022	5	100	
4	Architectural Coating	Architectural Coating	4/2/2022	5/20/2022	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 26.896

Acres of Paving: 17.22

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 213,000; Non-Residential Outdoor: 71,000; Striped Parking Area: 45,000
(Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Off-Highway Trucks	1	6.00	402	0.38
Paving	Off-Highway Trucks	1	6.00	402	0.38
Grading	Excavators	2	8.00	158	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
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

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
Grading	8	60.00	0.00	2,500.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	60.00	146.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	60.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Grading - 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					
Fugitive Dust					0.2566	0.0000	0.2566	0.1342	0.0000	0.1342	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1677	1.8560	1.2351	2.4800e-003		0.0794	0.0794		0.0731	0.0731	0.0000	217.9799	217.9799	0.0705	0.0000	219.7424
Total	0.1677	1.8560	1.2351	2.4800e-003	0.2566	0.0794	0.3360	0.1342	0.0731	0.2072	0.0000	217.9799	217.9799	0.0705	0.0000	219.7424

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	9.3900e-003	0.3265	0.0805	9.6000e-004	0.0214	9.9000e-004	0.0224	5.8700e-003	9.4000e-004	6.8200e-003	0.0000	95.2027	95.2027	8.5900e-003	0.0000	95.4175
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3400e-003	5.9500e-003	0.0600	1.9000e-004	0.0193	1.4000e-004	0.0194	5.1100e-003	1.3000e-004	5.2400e-003	0.0000	16.8125	16.8125	4.8000e-004	0.0000	16.8246
Total	0.0177	0.3324	0.1405	1.1500e-003	0.0406	1.1300e-003	0.0418	0.0110	1.0700e-003	0.0121	0.0000	112.0152	112.0152	9.0700e-003	0.0000	112.2420

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3.2 Grading - 2021**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					0.2566	0.0000	0.2566	0.1342	0.0000	0.1342	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1677	1.8560	1.2351	2.4800e-003		0.0794	0.0794		0.0731	0.0731	0.0000	217.9797	217.9797	0.0705	0.0000	219.7421
Total	0.1677	1.8560	1.2351	2.4800e-003	0.2566	0.0794	0.3360	0.1342	0.0731	0.2072	0.0000	217.9797	217.9797	0.0705	0.0000	219.7421

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	9.3900e-003	0.3265	0.0805	9.6000e-004	0.0214	9.9000e-004	0.0224	5.8700e-003	9.4000e-004	6.8200e-003	0.0000	95.2027	95.2027	8.5900e-003	0.0000	95.4175
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3400e-003	5.9500e-003	0.0600	1.9000e-004	0.0193	1.4000e-004	0.0194	5.1100e-003	1.3000e-004	5.2400e-003	0.0000	16.8125	16.8125	4.8000e-004	0.0000	16.8246
Total	0.0177	0.3324	0.1405	1.1500e-003	0.0406	1.1300e-003	0.0418	0.0110	1.0700e-003	0.0121	0.0000	112.0152	112.0152	9.0700e-003	0.0000	112.2420

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3.3 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	0.0824	0.7483	0.6748	1.2900e-003		0.0386	0.0386		0.0362	0.0362	0.0000	111.5193	111.5193	0.0294	0.0000	112.2544
Total	0.0824	0.7483	0.6748	1.2900e-003		0.0386	0.0386		0.0362	0.0362	0.0000	111.5193	111.5193	0.0294	0.0000	112.2544

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	0.0158	0.5251	0.1400	1.3700e-003	0.0339	1.1100e-003	0.0350	9.7900e-003	1.0600e-003	0.0109	0.0000	133.5959	133.5959	9.9200e-003	0.0000	133.8437
Worker	7.3000e-003	5.2100e-003	0.0525	1.6000e-004	0.0168	1.2000e-004	0.0170	4.4700e-003	1.1000e-004	4.5800e-003	0.0000	14.7110	14.7110	4.2000e-004	0.0000	14.7215
Total	0.0231	0.5304	0.1925	1.5300e-003	0.0508	1.2300e-003	0.0520	0.0143	1.1700e-003	0.0154	0.0000	148.3068	148.3068	0.0103	0.0000	148.5653

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3.3 Building Construction - 2021**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	0.0824	0.7483	0.6748	1.2900e-003		0.0386	0.0386		0.0362	0.0362	0.0000	111.5192	111.5192	0.0294	0.0000	112.2543
Total	0.0824	0.7483	0.6748	1.2900e-003		0.0386	0.0386		0.0362	0.0362	0.0000	111.5192	111.5192	0.0294	0.0000	112.2543

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	0.0158	0.5251	0.1400	1.3700e-003	0.0339	1.1100e-003	0.0350	9.7900e-003	1.0600e-003	0.0109	0.0000	133.5959	133.5959	9.9200e-003	0.0000	133.8437
Worker	7.3000e-003	5.2100e-003	0.0525	1.6000e-004	0.0168	1.2000e-004	0.0170	4.4700e-003	1.1000e-004	4.5800e-003	0.0000	14.7110	14.7110	4.2000e-004	0.0000	14.7215
Total	0.0231	0.5304	0.1925	1.5300e-003	0.0508	1.2300e-003	0.0520	0.0143	1.1700e-003	0.0154	0.0000	148.3068	148.3068	0.0103	0.0000	148.5653

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3.4 Paving - 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	0.0300	0.2955	0.3040	5.7000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	50.3403	50.3403	0.0163	0.0000	50.7474
Paving	7.9000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0379	0.2955	0.3040	5.7000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	50.3403	50.3403	0.0163	0.0000	50.7474

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	3.6500e-003	2.6000e-003	0.0262	8.0000e-005	8.4200e-003	6.0000e-005	8.4800e-003	2.2400e-003	5.0000e-005	2.2900e-003	0.0000	7.3555	7.3555	2.1000e-004	0.0000	7.3608
Total	3.6500e-003	2.6000e-003	0.0262	8.0000e-005	8.4200e-003	6.0000e-005	8.4800e-003	2.2400e-003	5.0000e-005	2.2900e-003	0.0000	7.3555	7.3555	2.1000e-004	0.0000	7.3608

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3.4 Paving - 2021**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	0.0300	0.2955	0.3040	5.7000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	50.3403	50.3403	0.0163	0.0000	50.7473
Paving	7.9000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0379	0.2955	0.3040	5.7000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	50.3403	50.3403	0.0163	0.0000	50.7473

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	3.6500e-003	2.6000e-003	0.0262	8.0000e-005	8.4200e-003	6.0000e-005	8.4800e-003	2.2400e-003	5.0000e-005	2.2900e-003	0.0000	7.3555	7.3555	2.1000e-004	0.0000	7.3608
Total	3.6500e-003	2.6000e-003	0.0262	8.0000e-005	8.4200e-003	6.0000e-005	8.4800e-003	2.2400e-003	5.0000e-005	2.2900e-003	0.0000	7.3555	7.3555	2.1000e-004	0.0000	7.3608

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3.4 Paving - 2022**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	0.0488	0.4599	0.5561	1.0600e-003		0.0220	0.0220		0.0203	0.0203	0.0000	93.5127	93.5127	0.0302	0.0000	94.2688
Paving	0.0147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0635	0.4599	0.5561	1.0600e-003		0.0220	0.0220		0.0203	0.0203	0.0000	93.5127	93.5127	0.0302	0.0000	94.2688

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	6.4100e-003	4.4100e-003	0.0452	1.5000e-004	0.0156	1.1000e-004	0.0158	4.1600e-003	1.0000e-004	4.2600e-003	0.0000	13.1594	13.1594	3.6000e-004	0.0000	13.1684
Total	6.4100e-003	4.4100e-003	0.0452	1.5000e-004	0.0156	1.1000e-004	0.0158	4.1600e-003	1.0000e-004	4.2600e-003	0.0000	13.1594	13.1594	3.6000e-004	0.0000	13.1684

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3.4 Paving - 2022**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	0.0488	0.4599	0.5561	1.0600e-003		0.0220	0.0220		0.0203	0.0203	0.0000	93.5126	93.5126	0.0302	0.0000	94.2687
Paving	0.0147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0635	0.4599	0.5561	1.0600e-003		0.0220	0.0220		0.0203	0.0203	0.0000	93.5126	93.5126	0.0302	0.0000	94.2687

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	6.4100e-003	4.4100e-003	0.0452	1.5000e-004	0.0156	1.1000e-004	0.0158	4.1600e-003	1.0000e-004	4.2600e-003	0.0000	13.1594	13.1594	3.6000e-004	0.0000	13.1684
Total	6.4100e-003	4.4100e-003	0.0452	1.5000e-004	0.0156	1.1000e-004	0.0158	4.1600e-003	1.0000e-004	4.2600e-003	0.0000	13.1594	13.1594	3.6000e-004	0.0000	13.1684

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3.5 Architectural Coating - 2022

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	1.9061					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5800e-003	0.0247	0.0317	5.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	4.4682	4.4682	2.9000e-004	0.0000	4.4755
Total	1.9097	0.0247	0.0317	5.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	4.4682	4.4682	2.9000e-004	0.0000	4.4755

Unmitigated Construction Off-Site

[illegible]

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3.5 Architectural Coating - 2022**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	1.9061					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5800e-003	0.0247	0.0317	5.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	4.4682	4.4682	2.9000e-004	0.0000	4.4755
Total	1.9097	0.0247	0.0317	5.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	4.4682	4.4682	2.9000e-004	0.0000	4.4755

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6969	3.6528	9.5330	0.0363	3.2027	0.0299	3.2326	0.8578	0.0279	0.8858	0.0000	3,358.413 3	3,358.413 3	0.1716	0.0000	3,362.702 1
Unmitigated	0.6969	3.6528	9.5330	0.0363	3.2027	0.0299	3.2326	0.8578	0.0279	0.8858	0.0000	3,358.413 3	3,358.413 3	0.1716	0.0000	3,362.702 1

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,993.75	1,993.75	1,993.75	8,490,983	8,490,983
Total	1,993.75	1,993.75	1,993.75	8,490,983	8,490,983

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	11.70	11.70	11.70	59.00	0.00	41.00	100	0	0

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.592621	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.030000	0.001926	0.001932	0.006016	0.000753	0.001122
Parking Lot	0.592621	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.030000	0.001926	0.001932	0.006016	0.000753	0.001122
Unrefrigerated Warehouse-No Rail	0.592621	0.040929	0.181073	0.106149	0.015683	0.005479	0.016317	0.030000	0.001926	0.001932	0.006016	0.000753	0.001122

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	309.5631	309.5631	0.0125	2.5800e-003	310.6428
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	309.5631	309.5631	0.0125	2.5800e-003	310.6428
NaturalGas Mitigated	2.9800e-003	0.0271	0.0227	1.6000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	29.4558	29.4558	5.6000e-004	5.4000e-004	29.6308
NaturalGas Unmitigated	2.9800e-003	0.0271	0.0227	1.6000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	29.4558	29.4558	5.6000e-004	5.4000e-004	29.6308

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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 Office Building	343230	1.8500e-003	0.0168	0.0141	1.0000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	18.3161	18.3161	3.5000e-004	3.4000e-004	18.4249
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
Unrefrigerated Warehouse-No Rail	208750	1.1300e-003	0.0102	8.6000e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.1397	11.1397	2.1000e-004	2.0000e-004	11.2059
Total		2.9800e-003	0.0271	0.0227	1.6000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	29.4558	29.4558	5.6000e-004	5.4000e-004	29.6308

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 Office Building	343230	1.8500e-003	0.0168	0.0141	1.0000e-004		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	18.3161	18.3161	3.5000e-004	3.4000e-004	18.4249
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
Unrefrigerated Warehouse-No Rail	208750	1.1300e-003	0.0102	8.6000e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.1397	11.1397	2.1000e-004	2.0000e-004	11.2059
Total		2.9800e-003	0.0271	0.0227	1.6000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	29.4558	29.4558	5.6000e-004	5.4000e-004	29.6308

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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 Office Building	228480	74.6693	3.0100e-003	6.2000e-004	74.9297
Parking Lot	262500	85.7873	3.4500e-003	7.1000e-004	86.0865
Unrefrigerated Warehouse-No Rail	456250	149.1065	6.0000e-003	1.2400e-003	149.6266
Total		309.5631	0.0125	2.5700e-003	310.6428

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	228480	74.6693	3.0100e-003	6.2000e-004	74.9297
Parking Lot	262500	85.7873	3.4500e-003	7.1000e-004	86.0865
Unrefrigerated Warehouse-No Rail	456250	149.1065	6.0000e-003	1.2400e-003	149.6266
Total		309.5631	0.0125	2.5700e-003	310.6428

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6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7944	7.0000e-005	8.2100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0170
Unmitigated	0.7944	7.0000e-005	8.2100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0170

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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	0.1906					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6031					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.6000e-004	7.0000e-005	8.2100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0170
Total	0.7944	7.0000e-005	8.2100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0170

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	0.1906					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6031					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.6000e-004	7.0000e-005	8.2100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0170
Total	0.7944	7.0000e-005	8.2100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0159	0.0159	4.0000e-005	0.0000	0.0170

7.0 Water Detail

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7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	152.7176	1.0461	0.0258	186.5445
Unmitigated	152.7176	1.0461	0.0258	186.5445

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.02147 / 1.85187	20.5399	0.0992	2.4900e-003	23.7624
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	28.9063 / 0	132.1776	0.9469	0.0233	162.7821
Total		152.7176	1.0461	0.0258	186.5445

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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 Office Building	3.02147 / 1.85187	20.5399	0.0992	2.4900e-003	23.7624
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	28.9063 / 0	132.1776	0.9469	0.0233	162.7821
Total		152.7176	1.0461	0.0258	186.5445

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	27.0607	1.5992	0.0000	67.0418
Unmitigated	27.0607	1.5992	0.0000	67.0418

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	15.81	3.2093	0.1897	0.0000	7.9509
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	117.5	23.8514	1.4096	0.0000	59.0909
Total		27.0607	1.5992	0.0000	67.0418

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	15.81	3.2093	0.1897	0.0000	7.9509
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	117.5	23.8514	1.4096	0.0000	59.0909
Total		27.0607	1.5992	0.0000	67.0418

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation

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