



Date: March 16, 2023
To: PPJ Properties One LLC
From: M. S. Hatch Consulting, LLC
Subject: Air Quality Study – Self-Storage Facility (APN 3118-006-057), Lancaster, CA

M. S. Hatch Consulting, LLC (MSHC) appreciates the opportunity to prepare the air quality study for the proposed construction and operation of a self-storage facility (APN 3118-006-057) for PPJ Properties One LLC (PPJ). This project consists of a self-storage facility and parking lot on 4.62 acres in the City of Lancaster. This air quality study includes the estimated criteria pollutant and greenhouse gas emissions from the construction and operation of the proposed project.

Executive Summary

Table 1 and Table 2 compare the estimated annual and daily emissions summaries from the construction and operation of the proposed development to the significant emission thresholds described in the Antelope Valley Air Quality Management District (AVAQMD) California Environmental Quality Act (CEQA) and Federal Conformity Guidelines, dated August 2016, included in Attachment A. The estimated emissions of criteria pollutants and greenhouse gases for each year of construction and the total operational emissions are below the applicable thresholds. Greenhouse gas emissions are presented in units of carbon dioxide equivalent (CO₂e). The proposed project is not considered one of the project types that the AVAQMD CEQA Guidelines require to be evaluated for potentially exposing sensitive receptors to substantial pollutant concentrations.¹ As such, hazardous air pollutants (HAP) emissions were not calculated, and the project was not evaluated for potential health risks to sensitive receptors.

Table 1. Annual Emissions Summary and Significance Thresholds

Emissions Source	Total Emissions (tons per year)						
	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}	CO ₂ e
Year 1 Construction Emissions (2024)	0.08	0.76	0.80	< 0.01	0.10	0.05	189
Year 2 Construction Emissions (2025)	0.26	0.03	0.05	< 0.01	< 0.01	< 0.01	8
Total Operational Emissions	0.55	0.24	1.38	< 0.01	0.28	0.08	658
Significant Emissions Threshold	25	25	100	25	15	12	100,000

ROG: Reactive Organic Compounds, used interchangeably with Volatile Organic Compounds (VOC); NO_x: oxides of nitrogen; CO: Carbon monoxide; SO_x: Oxides of sulfur; PM_{2.5}: particulate matter less than 2.5 micrometers in diameter; PM₁₀: particulate matter less than 10 micrometers in diameter; CO₂e: Carbon dioxide equivalent

¹ Residences, schools, daycare centers, playgrounds and medical facilities are considered sensitive receptor land uses. The following project types proposed for sites within the specified distance to an existing or planned (zoned) sensitive receptor land use must be evaluated using significance threshold criteria number 4 (refer to the significance threshold discussion): any industrial project within 1000 feet; a distribution center (40 or more trucks per day) within 1000 feet; a major transportation project (50,000 or more vehicles per day) within 1000 feet; a dry cleaner using perchloroethylene within 500 feet; or a gasoline dispensing facility within 300 feet.

Table 2. Daily Emissions Summary and Significance Thresholds

Emissions Source	Total Emissions (pounds per day)						
	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}	CO _{2e}
Year 1 Construction Emissions (2024)	2.72	43.38	22.27	0.16	9.04	5.11	17,001
Year 2 Construction Emissions (2025)	28.53	7.57	12.78	0.02	0.52	0.37	1,970
Total Operational Emissions	3.31	1.35	9.16	0.02	1.81	0.51	2,143
Significant Emissions Threshold	137	137	548	137	82	65	548,000

ROG: Reactive Organic Compounds, used interchangeably with Volatile Organic Compounds (VOC); NO_x: oxides of nitrogen; CO: Carbon monoxide; SO_x: Oxides of sulfur; PM_{2.5}: particulate matter less than 2.5 micrometers in diameter; PM₁₀: particulate matter less than 10 micrometers in diameter; CO_{2e}: Carbon dioxide equivalent

Project Description

The proposed project includes the construction of self-storage buildings and a parking lot on 4.62 acres. The project site is currently a vacant lot located on the northwest corner of 15th Street West and Avenue H in Lancaster, CA. The site location is included in Figure 1 and the proposed site plan is included in Figure 2.

Figure 1. Regional Vicinity

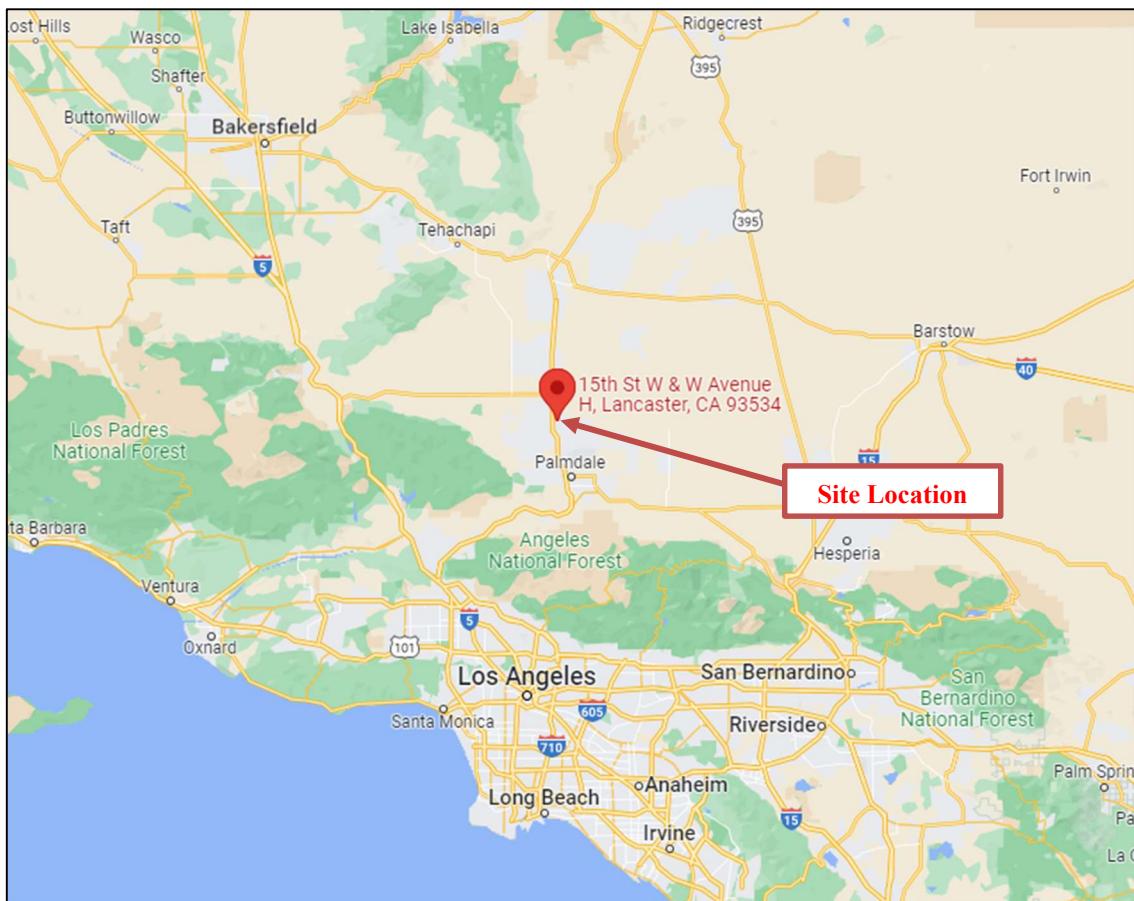
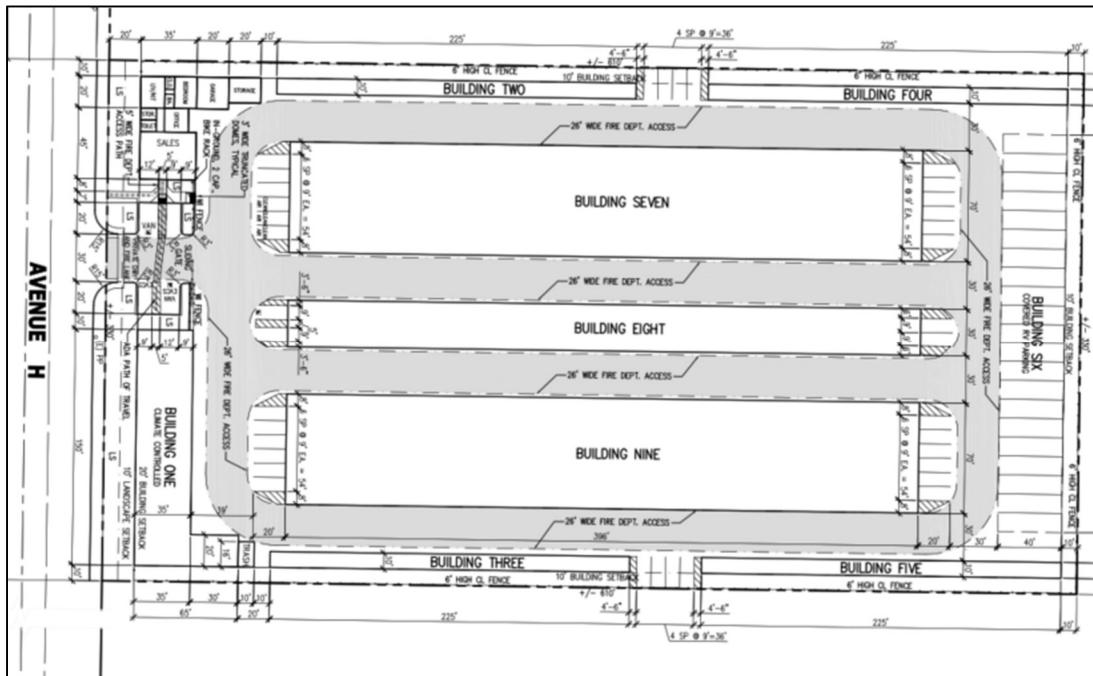


Figure 2. Site Plan – Proposed Self-Storage Development - Lancaster, CA



Sources of Emissions

The emissions associated with the proposed project consist of construction and operational emissions from the development. Construction emissions are temporary and include emissions of criteria pollutants and greenhouse gases from construction activities during site preparation, grading, building construction, paving and the application of architectural coatings. Operational emissions consist of area sources (e.g., re-applying architectural coatings, consumer products, and landscaping equipment), energy use (i.e., electricity and natural gas use), mobile sources (e.g., commuting), solid waste disposal, and water and wastewater use (i.e., supplying and treating water and wastewater).

Emissions Estimates

Tables 3 and 4 present the annual and daily emissions summaries from the construction and operation of the proposed project, respectively. Emissions were estimated using CalEEMod Version 2020.4.0. The detailed emissions model outputs are included in Attachment B.

This project is not considered one of the project types that the AVAQMD CEQA Guidelines require to be evaluated for potentially exposing sensitive receptors to substantial pollutant concentrations. As such, HAP emissions were not calculated, and the project was not evaluated for potential health risks to sensitive receptors.

Table 3. Annual Construction and Operational Emissions Summary

Emissions Source	Total Emissions (tons per year)						
	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}	CO _{2e}
Construction Emissions							
Year 1 Construction Emissions (2024)	0.08	0.76	0.80	< 0.01	0.10	0.05	189
Year 2 Construction Emissions (2025)	0.26	0.03	0.05	< 0.01	< 0.01	< 0.01	8
Operational Emissions							
Area Sources	0.40	< 0.01	< 0.01	0.00	0.00	0.00	< 1
Energy	0.01	0.05	0.04	< 0.01	< 0.01	< 0.01	270
Mobile	0.14	0.19	1.34	< 0.01	0.28	0.08	246
Waste	N/A	N/A	N/A	N/A	0.00	0.00	59
Water	N/A	N/A	N/A	N/A	0.00	0.00	82
Total Operational Emissions	0.55	0.24	1.38	< 0.01	0.28	0.08	658
Significant Emissions Threshold	25	25	100	25	15	12	100,000

ROG: Reactive Organic Compounds, used interchangeably with Volatile Organic Compounds (VOC); NO_x: oxides of nitrogen; CO: Carbon monoxide; SO_x: Oxides of sulfur; PM_{2.5}: particulate matter less than 2.5 micrometers in diameter; PM₁₀: particulate matter less than 10 micrometers in diameter; CO_{2e}: Carbon dioxide equivalent

Table 4. Daily Construction and Operational Emissions Summary

Emissions Source	Total Emissions (pounds per day)						
	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}	CO _{2e}
Construction Emissions							
Year 1 Construction Emissions (2024)	2.72	43.38	22.27	0.16	9.04	5.11	17,001
Year 2 Construction Emissions (2025)	28.53	7.57	12.78	0.02	0.52	0.37	1,970
Operational Emissions							
Area Sources	2.21	< 0.01	0.01	0.00	< 0.01	< 0.01	< 1
Energy	0.03	0.26	0.22	< 0.01	0.02	0.02	318
Mobile	1.08	1.08	8.92	0.02	1.79	0.49	1,825
Waste	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Water	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Operational Emissions	3.31	1.35	9.16	0.02	1.81	0.51	2,143
Significant Emissions Threshold	137	137	548	137	82	65	548,000

ROG: Reactive Organic Compounds, used interchangeably with Volatile Organic Compounds (VOC); NO_x: oxides of nitrogen; CO: Carbon monoxide; SO_x: Oxides of sulfur; PM_{2.5}: particulate matter less than 2.5 micrometers in diameter; PM₁₀: particulate matter less than 10 micrometers in diameter; CO_{2e}: Carbon dioxide equivalent

Emissions Calculation Methodology

Construction and operational emissions were based on five CalEEMod land use types: *Industrial Park*, *City Park*, *Parking Lot*, *Other Asphalt Surfaces*, and *Other Non-Asphalt Surfaces*. A discussion on the land use types that were used for the emissions modeling is included below.

CalEEMod Land Use Type: Industrial Park

The *Industrial Park* land use type was used to model the emissions associated with the self-storage buildings². The building square footage (95,170 square feet) and acreage (2.18 acres) was provided by PPJ.

CalEEMod Land Use Type: City Park

The *City Park* land use type was used to model the emissions associated with landscaped area in the development. The landscaping acreage (0.44 acres) was provided by PPJ.

CalEEMod Land Use Type: Parking Lot

The *Parking Lot* land use type was used to model the emissions associated with the facility's parking area. The parking lot acreage (1.95 acres) was provided by PPJ.

CalEEMod Land Use Type: Other Asphalt Surfaces

The *Other Asphalt Surfaces* land use type was used to model the emissions associated with asphalt areas not related to parking. The acreage (0.033 acres) was provided by PPJ.

CalEEMod Land Use Type: Other Non-Asphalt Surfaces

The *Other Non-Asphalt Surfaces* land use type was used to model the emissions associated with cement areas. The acreage (0.016 acres) was provided by PPJ.

Construction Emissions

Construction emissions were calculated using CalEEMod defaults and input provided by PPJ. The construction equipment and anticipated construction schedule was reviewed and verified by PPJ³.

Table 5 provides the anticipated construction schedule. PPJ provided the proposed start date (9/1/2024) and end date (1/31/2025) and stated that work would be conducted five days per week. Apart from the *Building Construction* phase, all phase durations are based on CalEEMod default values. The *Building Construction* phase was shortened to meet the estimated construction timeline.

Table 6 provides the anticipated number of equipment that will be used during each construction phase, the hours per day the equipment will be operated, and the horsepower of the equipment. The values in Table 6 are based on CalEEMod default values.

Based on input from PPJ, this project will require 14,789 cubic yards of material import during the *Grading* phase; as such, the emissions for material haul trips were included in the construction emissions. For fugitive dust emissions, CalEEMod defaults do not include any control of fugitive dust from project construction sites.

² This project was modeled as Industrial Park because it is the best available land use type in CalEEMod; however, it is not truly an industrial project subject to HAP emission quantification.

³ PPJ confirmed the construction schedule and off-road equipment list via email on 3/13/23.

AVAQMD Rule 403 requires that fugitive dust from any “active operation, open storage pile, or disturbed surface area” be controlled so that no presence of dust remains visible beyond the property line. To meet this requirement, the standard operation is watering active sites three times per day. Although the addition of watering for dust control is listed as a mitigation measure in CalEEMod, within the AVAQMD this is a requirement, and is therefore included.

For architectural coating operations, VOC emissions were calculated based on the assumption that the coatings would be compliant with the VOC content limits of AVAQMD Rule 1113.⁴

Table 5. Construction Schedule

Construction Phase	Start Date	End Date	Days/week	Workdays
Demolition	N/A	N/A	N/A	N/A
Site Preparation	9/1/2024	9/6/2024	5	5
Grading	9/7/2024	9/18/2024	5	8
Building Construction	9/19/2024	12/12/2024	5	61
Paving	12/13/2024	1/7/2025	5	18
Architectural Coating	1/8/2025	1/31/2025	5	18

Table 6. Construction Equipment

Phase Name	Offroad Equipment Type	Amount	Hours per day	Horsepower
Site Preparation	Rubber Tired Dozers	3	8	247
Site Preparation	Tractors/Loaders/Backhoes	4	8	97
Grading	Excavators	1	8	158
Grading	Graders	1	8	187
Grading	Rubber Tired Dozers	1	8	247
Grading	Tractors/Loaders/Backhoes	3	8	97
Building Construction	Cranes	1	7	231
Building Construction	Forklifts	3	8	89
Building Construction	Generator Sets	1	8	84
Building Construction	Tractors/Loaders/Backhoes	3	7	97
Building Construction	Welders	1	8	46
Paving	Cement and Mortar Mixers	2	6	9
Paving	Pavers	1	8	130
Paving	Paving Equipment	2	6	132
Paving	Rollers	2	6	80
Paving	Tractors/Loaders/Backhoes	1	8	97
Architectural Coating	Air Compressors	1	6	78

⁴ For building coatings, assumed to be 90% flat paints (50 g/L) and 10% non-flat paints (100 g/L). For the parking lot coatings, assumed to be compliant with the Traffic Marking Coating category (100 g/L). VOC limits based on AVAQMD Rule 1113.

Operational Emissions

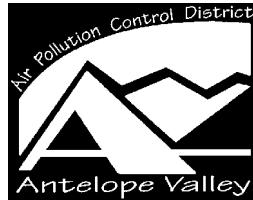
Operational emissions consist of area sources (i.e., re-applying architectural coatings, consumer products, and landscaping equipment), energy use (i.e., electricity and natural gas), mobile sources (e.g., commuting), solid waste disposal, and water and wastewater use (i.e., supplying and treating water and wastewater). For architectural coating operations (i.e., re-applying coatings), VOC emissions were calculated based on the assumption that the coatings would be compliant with the VOC content limits of AVAQMD Rule 1113.⁵ For mobile source emissions, it was assumed that there would not be any external vehicle trips to the landscaped area within the facility, modeled under the *City Park* land use type. All other operational emissions sources were calculated using CalEEMod default factors.

Findings

The estimated emissions of criteria pollutants and greenhouse gases for each year of construction and the total operational emissions **are below the applicable AVAQMD Significant Emissions Thresholds**; therefore, this project does not have a significant air quality impact on the environment. In addition, this project is not expected to expose sensitive receptors to substantial pollutant concentrations. Since the construction and operational emissions are below the significance thresholds, emissions mitigation measures are not required.

⁵ For building coatings, assumed to be 90% flat paints (50 g/L) and 10% non-flat paints (100 g/L). For the parking lot coatings, assumed to be compliant with the Traffic Marking Coating category (100 g/L). VOC limits based on AVAQMD Rule 1113.

**ATTACHMENT A – Antelope Valley AQMD California Environmental Quality Act
(CEQA) and Federal Conformity Guidelines**



Antelope Valley AQMD

**California Environmental Quality Act
(CEQA)**

and

Federal Conformity

Guidelines

August 2016

**AVAQMD Planning, Rule-making and Grants Section
AVAQMD Air Monitoring Section**

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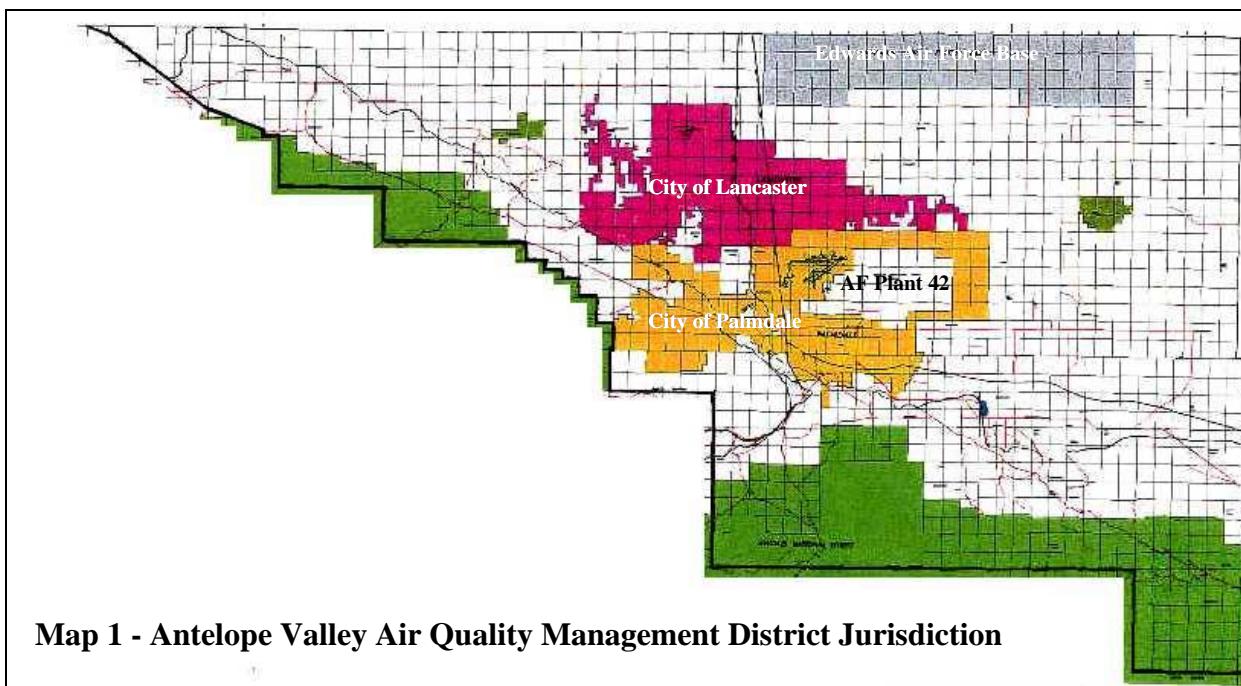
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Background

Under the California Environmental Quality Act (CEQA), the AVAQMD (District) is an expert commenting agency on air quality and related matters within its jurisdiction (or impacting on its jurisdiction). The District has dedicated resources to reviewing projects to ensure that they will not: (1) cause or contribute to any new violation of any air quality standard; (2) increase the frequency or severity of any existing violation of any air quality standard; or (3) delay timely attainment of any air quality standard or any required interim emission reductions or other milestones of any federal attainment plan. The District has adopted a federal attainment plan for ozone pursuant to the Federal Clean Air Act.

Purpose

These Guidelines are intended to assist persons preparing environmental analysis or review documents for any project within the jurisdiction of the District by providing background information and guidance on the preferred analysis approach.



Jurisdiction

The District has jurisdiction over the northern, desert portion of Los Angeles County (please refer to Map 1). This region includes the incorporated cities of Lancaster and Palmdale, Air Force Plant 42, and the southern portion of Edwards Air Force Base. The Kern County-Los Angeles County boundary forms the northern boundary of the District; the San Bernardino-Los Angeles County boundary forms the eastern boundary of the District.

Non-attainment Designations and Classification Status

The United States Environmental Protection Agency and the California Air Resources Board have designated portions of the District non-attainment for a variety of pollutants, and some of those designations have an associated classification. Please refer to Table 1 for a chart of these designations and classifications.

Table 1 – AVAQMD Designations and Classifications

Ambient Air Quality Standard	AVAQMD
One-hour Ozone (Federal) – standard has been revoked, this is historical information only	Proposed attainment in 2014; historical classification Severe-17
Eight-hour Ozone (Federal 84 ppb (1997))	Subpart 2 Nonattainment; classified Severe-15
Eight-hour Ozone (Federal 75 ppb (2008))	Nonattainment, classified Severe-15
Eight-hour Ozone (Federal 70 ppb (2015))	Expected nonattainment; classification to be determined
Ozone (State)	Nonattainment; classified Extreme
PM ₁₀ 24-hour (Federal)	Unclassifiable/attainment
PM _{2.5} Annual (Federal)	Unclassified/attainment
PM _{2.5} 24-hour (Federal)	Unclassified/attainment
PM _{2.5} (State)	Unclassified
PM ₁₀ (State)	Nonattainment
Carbon Monoxide (State and Federal)	Attainment
Nitrogen Dioxide (State and Federal)	Attainment/unclassified
Sulfur Dioxide (State and Federal)	Attainment/unclassified
Lead (State and Federal)	Attainment
Particulate Sulfate (State)	Unclassified
Hydrogen Sulfide (State)	Unclassified
Visibility Reducing Particles (State)	Unclassified

Attainment Plans

The District has adopted a single attainment plan for ozone. Please refer to Table 2 for information regarding this attainment plan.

Table 2 – AVAQMD Attainment Plans

Name of Plan	Date of Adoption	Standard(s) Targeted	Applicable Area	Pollutant(s) Targeted	Attainment Date*
AVAQMD 2004 Ozone Attainment Plan (State and Federal)	4/2004	Federal one hour ozone	Entire District	NO _x and VOC	2007
AVAQMD Federal 8-Hour Ozone Attainment Plan	5/20/2008	Federal eight hour ozone (84 ppb)	Entire District	NO _x and VOC	2019 (revised from 2021)

*Note: A historical attainment date given in an attainment plan does not necessarily mean that the affected area has been re-designated to attainment; please refer to Table 1.

Rules and Regulations

The District maintains a set of Rules and Regulations to improve air quality and maintain good air quality. Please contact the District to obtain a copy of the District rulebook, or visit www.avaqmd.ca.gov.

Recommended Environmental Setting Elements

Air Quality Data

The District gathers a variety of air quality data at the Lancaster monitoring site. Table 3 details the data available from the District for this site.

Table 3 - Available Air Quality Data

Site	Address	Pollutants	Dates
Lancaster	W. Ponderosa	O ₃ , NO _x , CO, PM ₁₀ (Hi-Vol and TEOM)	7/1/97 to 11/01
Lancaster	W. Ponderosa	PM _{2.5}	1/1/99 to 11/01
Lancaster	43301 Division St.	O ₃ , NO _x , CO, PM ₁₀ (hourly), PM _{2.5}	11/01 to present

Meteorological Data

A variety of meteorological data is available from the District for the Lancaster site. Table 4 contains a list of the data available for the Lancaster site.

Table 4 - Available Meteorological Data

Site	Address	Data	Dates
Lancaster	W. Ponderosa	Wind speed/direction, pressure, temperature, humidity	7/1/97 to 11/01
Lancaster	43301 Division St.	Wind speed/direction, pressure, temperature, humidity	11/01 to present

Topography and Climate Discussion

The District covers a western portion of the Mojave Desert Air Basin (MDAB). The MDAB is an assemblage of mountain ranges interspersed with long broad valleys that often contain dry lakes. Many of the lower mountains which dot the vast terrain rise from 1,000 to 4,000 feet above the valley floor. Prevailing winds in the MDAB are out of the west and southwest. These prevailing winds are due to the proximity of the MDAB to coastal and central regions and the blocking nature of the Sierra Nevada mountains to the north; air masses pushed onshore in southern California by differential heating are channeled through the MDAB. The MDAB is separated from the southern California coastal and central California valley regions by mountains (highest elevation approximately 10,000 feet), whose passes form the main channels for these air masses. The Antelope Valley is bordered in the northwest by the Tehachapi Mountains, separated from the Sierra Nevadas in the north by the Tehachapi Pass (3,800 ft elevation). The Antelope Valley is bordered in the south by the San Gabriel Mountains, bisected by Soledad Canyon (3,300 ft).

During the summer the MDAB is generally influenced by a Pacific Subtropical High cell that sits off the coast, inhibiting cloud formation and encouraging daytime solar heating. The MDAB is rarely influenced by cold air masses moving south from Canada and Alaska, as these frontal systems are weak and diffuse by the time they reach the desert. Most desert moisture arrives from infrequent warm, moist and unstable air masses from the south. MDAB annual average precipitation is presented in Table 5; the data displayed is 1981-2010 averages from the NOAA National Climate Data Center. The MDAB is classified as a dry-hot desert climate (BWh), with portions classified as dry-very hot desert (BWhh), to indicate at least three months have maximum average temperatures over 100.4° F.

Table 5 - MDAB Average Annual Precipitation

Site	County	District	Precipitation (inches)
Baker	San Bernardino	MDAQMD	4.48
Barstow Daggett Airport	San Bernardino	MDAQMD	4.06
Barstow	San Bernardino	MDAQMD	5.30
Blythe Airport	Riverside	MDAQMD	3.77
Desert Center 2 NNE	Riverside	SCAQMD	3.92
Eagle Mountain	Riverside	SCAQMD	4.10
Goldstone Echo Number 2	San Bernardino	MDAQMD	5.88
Joshua Tree	San Bernardino	MDAQMD	5.11
Lancaster Wm J Fox Field	Los Angeles	AVAQMD	7.38
Mitchell Caverns	San Bernardino	MDAQMD	11.50
Mojave	Kern	EKAPCD	6.67
Mountain Pass 1 SE	San Bernardino	MDAQMD	9.94
Needles Airport	San Bernardino	MDAQMD	4.62
Palmdale Airport	Los Angeles	AVAQMD	8.30
Palmdale	Los Angeles	AVAQMD	7.40

Site	County	District	Precipitation (inches)
Parker Reservoir	San Bernardino	MDAQMD	6.16
Pearblossom	Los Angeles	AVAQMD	6.73
Randsburg	Kern	EKAPCD	7.26
Trona	San Bernardino	MDAQMD	3.88
Twentynine Palms	San Bernardino	MDAQMD	4.46
Victorville Pump Plant	San Bernardino	MDAQMD	6.15
Wrightwood	Los Angeles	AVAQMD	22.61

Recommended Impacts Discussion Elements

Direct Impacts

Direct impacts are the result of the project itself (from its construction and operation), in the form of project activity and trips generated by the project. For example, in the case of a subdivision project, construction emissions (equipment exhaust, wind erosion, vehicle exhaust), housing use activity (natural gas consumption) and trips to and from the housing (vehicle exhaust, tire wear) represent direct impacts. In the case of a new mine project, construction emissions (equipment exhaust, wind erosion, vehicle exhaust), material handling (drilling, blasting, transfers, crushing, screening, bagging), operational emissions (wind erosion, vehicle travel, vehicle exhaust, tire wear), and employee/customer/delivery travel (vehicle exhaust, tire wear) represent direct impacts.

Indirect Impacts

Indirect impacts are the result of changes that would not occur without the project. In the case of a subdivision project, indirect impacts on the surrounding community can be generated in many ways: nearby construction of roadways (or roadway modifications) and other infrastructure to support the subdivision, construction and operation of new commercial/retail establishments, changes in traffic/circulation patterns that result in increased congestion/delays, etc. In the case of a new mine project, indirect impacts can be generated by nearby construction of infrastructure to support the mine, housing constructed and/or occupied by mine employees, changes in traffic/circulation patterns that result in increased congestion/delays, etc.

Cumulative Impacts

Cumulative impacts are similar to direct and indirect impacts of the project, which the project contributes to. In the case of a subdivision project, a given project has a cumulative impact with all other subdivision projects, from the standpoint of each type of impact (cumulative construction emissions, residential natural gas consumption, solvent use, transportation emissions, congestion, etc.). Similarly, a new mine project has a cumulative impact with all other mining projects, from the standpoint of each type of impact (cumulative construction emissions, diesel equipment emissions, blasting emissions, fugitive emissions, transportation, congestion, etc.).

Conformity Impacts

A project is non-conforming if it conflicts with or delays implementation of any applicable attainment or maintenance plan. A project is conforming if it complies with all applicable District rules and regulations, complies with all proposed control measures that are not yet adopted from the applicable plan(s), and is consistent with the growth forecasts in the applicable plan(s) (or is directly included in the applicable plan). Conformity with growth forecasts can be established by demonstrating that the project is consistent with the land use plan that was used to generate the growth forecast. An example of a non-conforming project would be one that increases the gross number of dwelling units, increases the number of trips, and/or increases the overall vehicle miles traveled in an affected area (relative to the applicable land use plan).

Sensitive Receptor Land Uses

Residences, schools, daycare centers, playgrounds and medical facilities are considered sensitive receptor land uses. The following project types proposed for sites within the specified distance to an existing or planned (zoned) sensitive receptor land use must be evaluated using significance threshold criteria number 4 (refer to the significance threshold discussion):

- Any industrial project within 1000 feet;
- A distribution center (40 or more trucks per day) within 1000 feet;
- A major transportation project (50,000 or more vehicles per day) within 1000 feet;
- A dry cleaner using perchloroethylene within 500 feet;
- A gasoline dispensing facility within 300 feet.

Recommended Substantiation Discussion Elements

For projects applying the emissions-based significance thresholds, project emissions quantification is required. In addition the environmental documentation must include support for the quantification methodology used, including emission factors, emission factors source, assumptions, and sample calculations where necessary. For projects using a calculation tool such as CalEEMod or URBEMIS, the support section must specify the inputs and settings used for the evaluation.

Significance Thresholds

Any project is significant if it triggers or exceeds the most appropriate evaluation criteria. The District will clarify upon request which threshold is most appropriate for a given project; in general, the emissions comparison (criteria number 1) is sufficient:

1. Generates total emissions (direct and indirect) in excess of the thresholds given in Table 6;
2. Generates a violation of any ambient air quality standard when added to the local background;
3. Does not conform with the applicable attainment or maintenance plan(s)¹;

¹ A project is deemed to not exceed this threshold, and hence not be significant, if it is consistent with the existing land use plan. Zoning changes, specific plans, general plan amendments and similar land use plan changes which do not increase dwelling unit density, do not increase vehicle trips, and do not increase vehicle miles traveled are also deemed to not exceed this threshold.

4. Exposes sensitive receptors to substantial pollutant concentrations, including those resulting in a cancer risk greater than or equal to 10 in a million and/or a Hazard Index (HI) (non-cancerous) greater than or equal to 1.*

*Refer to the Sensitive Receptor Land Use discussion above

A significant project must incorporate mitigation sufficient to reduce its impact to a level that is not significant. A project that cannot be mitigated to a level that is not significant must incorporate all feasible mitigation. Note that the emission thresholds are given as a daily value and an annual value, so that a multi-phased project (such as a project with a construction phase and a separate operational phase) with phases shorter than one year can be compared to the daily value.

Table 6 – Significant Emissions Thresholds

Criteria Pollutant	Annual Threshold (tons)	Daily Threshold (pounds)
Greenhouse Gases (CO2e)	100,000	548,000
Carbon Monoxide (CO)	100	548
Oxides of Nitrogen (NO _x)	25	137
Volatile Organic Compounds (VOC)	25	137
Oxides of Sulfur (SO _x)	25	137
Particulate Matter (PM ₁₀)	15	82
Particulate Matter (PM _{2.5})	12	65
Hydrogen Sulfide (H ₂ S)	10	54
Lead (Pb)	0.6	3

District Contacts

If an address is not listed, please use the general address, to the attention of the listed individual.

AVAQMD General and Rulebook	Crystal Goree (661) 723-8070 x1 Mailing and Physical Address: 43301 Division St., Suite 206 Lancaster, CA 93535-4649
Planning and Rules	Tracy Walters (760) 245-1661 x6122
Air Quality and Meteorological Data	Orlando Salinas (760) 245-1661 x1810
CEQA and Conformity	Alan De Salvio (760) 245-1661 x6726
Permitting	Bret Banks (661) 723-8070 x2

Appendix A – Basic Definitions of Major Air Pollutants

Technical and/or legal definitions exist for many of these pollutants, depending on context. The following definitions are for general, introductory purposes only:

Carbon Dioxide (CO₂) – Common product of combustion. Not a criteria pollutant, but considered an important “greenhouse gas.” Important on a national or global scale.

Carbon Monoxide (CO) – Common product of incomplete combustion. A criteria pollutant with state and federal standards. Not a primary photochemical reaction compound, but involved in photochemical reactions. Dissipates rapidly, and is therefore only important on a local scale near sources.

Criteria Pollutants – Those air pollutants specifically identified for control under the Federal Clean Air Act (currently six: carbon monoxide, nitrogen oxides, lead, sulfur oxides, ozone and particulates).

Lead (Pb) – A heavy metal, present in the environment mainly due to historical use in motor vehicle fuel. Primarily associated with lead smelting operations. A criteria pollutant with state and federal standards. Primarily of concern near sources.

Oxides of Nitrogen (NO_x) – Common product of combustion in the presence of nitrogen. Includes NO₂, which is a criteria pollutant with state and federal standards. Locally and regionally important due to its involvement in the photochemical formation of ozone.

Oxides of Sulfur (SO_x) – Common product of combustion in the presence of sulfur. Associated primarily with diesel and coal burning. Includes SO₂, a criteria pollutant with state and federal standards. Primarily of concern near sources.

Ozone (O₃) – A gas mainly produced by a photochemical reaction between reactive organic gases and oxides of nitrogen in the presence of sunlight (also produced by molecular oxygen in the presence of ultraviolet light or electrical discharge). A strong oxidant that is damaging at ground level but necessary at high altitude (in the stratosphere, where it absorbs dangerous ultraviolet light). Also considered an important greenhouse gas. A criteria pollutant with state and federal standards.

Particulate Matter (TSP or PM₃₀) – Solid or liquid matter suspended in the atmosphere, excluding water. Includes aerosols and droplets that form in the atmosphere. Locally and regionally important.

Reactive/Volatile Organic Compounds/Gases (ROG, VOC, NMOG, NMOC) – A portion of total organic compounds or gases, excludes methane, ethane and acetone (due to low photochemical reactivity). “ROG” is generally used by the California Air Resources Board, “VOC” is generally used by the United States Environmental Protection Agency, but all four terms are interchangeable for most uses. Regionally important due to its involvement in the photochemical reaction that produces ozone.

Respirable Particulate Matter (coarse or PM₁₀, and fine or PM_{2.5}) – That portion of particulate matter that tends to penetrate into the human lung. The subscript refers to aerodynamic diameter. Criteria pollutants with state and federal standards. Locally and regionally important.

Total Organic Compounds/Gases (TOC or TOG) – Compounds containing at least one atom of carbon, except carbon monoxide, carbon dioxide, carbonic acid, metallic carbides and metallic carbonates. Primarily methane in the atmosphere, a “greenhouse gas.”

ATTACHMENT B – CalEEMod Emissions Model Output

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA**
Antelope Valley APCD Air District, Annual**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.17	1000sqft	2.18	95,170.00	0
Other Asphalt Surfaces	1.43	1000sqft	0.03	1,429.00	0
Other Non-Asphalt Surfaces	0.69	1000sqft	0.02	688.00	0
Parking Lot	42.00	Space	1.95	84,951.00	0
City Park	0.44	Acre	0.44	19,062.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Information provided by client.

Construction Phase - Schedule adjusted per start and end date provided on data request form.

Grading - Material import during Grading phase was provided by client.

Architectural Coating - VOC limits from AVAQMD Rule 1113. For the building, assumes 90% flat paint (50 g/L) and 10% non-flat (100 g/L). For parking lot coatings, assumed to be compliant with the Traffic Marking Coating category VOC limit of 100 g/L.

Vehicle Trips - All areas modeled as City Park are within the facility and no vehicle trips are expected.

Area Coating - VOC limits from AVAQMD Rule 1113. For the building, assumes 90% flat paint (50 g/L) and 10% non-flat (100 g/L). For parking lot coatings, assumed to be compliant with the Traffic Marking Coating category VOC limit of 100 g/L.

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Construction Off-road Equipment Mitigation - Assumes that construction site will be watered 3 times per day to be in compliance with AVAQMD Rule 403.

Area Mitigation --

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	55.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	55.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	55.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	55.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	55
tblAreaCoating	Area_EF_Nonresidential_Interior	250	55
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	55
tblAreaCoating	Area_EF_Residential_Interior	250	55
tblConstructionPhase	NumDays	230.00	61.00
tblConstructionPhase	PhaseEndDate	8/6/2025	12/12/2024
tblConstructionPhase	PhaseEndDate	9/1/2025	1/7/2025
tblConstructionPhase	PhaseEndDate	9/25/2025	1/31/2025
tblConstructionPhase	PhaseStartDate	8/7/2025	12/13/2024
tblConstructionPhase	PhaseStartDate	9/2/2025	1/8/2025
tblGrading	MaterialImported	0.00	14,789.00
tblLandUse	LandUseSquareFeet	1,430.00	1,429.00
tblLandUse	LandUseSquareFeet	690.00	688.00
tblLandUse	LandUseSquareFeet	16,800.00	84,951.00
tblLandUse	LandUseSquareFeet	19,166.40	19,062.00
tblLandUse	LotAcreage	0.38	1.95
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00

2.0 Emissions Summary

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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					
2024	0.0772	0.7578	0.8011	2.0500e-003	0.1237	0.0283	0.1520	0.0514	0.0265	0.0779	0.0000	184.8432	184.8432	0.0272	0.0108	188.7384
2025	0.2596	0.0296	0.0521	9.0000e-005	1.6300e-003	1.3500e-003	2.9900e-003	4.3000e-004	1.2900e-003	1.7200e-003	0.0000	7.6546	7.6546	1.4500e-003	4.0000e-005	7.7023
Maximum	0.2596	0.7578	0.8011	2.0500e-003	0.1237	0.0283	0.1520	0.0514	0.0265	0.0779	0.0000	184.8432	184.8432	0.0272	0.0108	188.7384

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					
2024	0.0772	0.7578	0.8011	2.0500e-003	0.0759	0.0283	0.1042	0.0276	0.0265	0.0541	0.0000	184.8431	184.8431	0.0272	0.0108	188.7383
2025	0.2596	0.0296	0.0521	9.0000e-005	1.6300e-003	1.3500e-003	2.9900e-003	4.3000e-004	1.2900e-003	1.7200e-003	0.0000	7.6546	7.6546	1.4500e-003	4.0000e-005	7.7023
Maximum	0.2596	0.7578	0.8011	2.0500e-003	0.0759	0.0283	0.1042	0.0276	0.0265	0.0541	0.0000	184.8431	184.8431	0.0272	0.0108	188.7383

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	38.12	0.00	30.82	45.97	0.00	29.93	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2024	11-30-2024	0.6953	0.6953
2	12-1-2024	2-28-2025	0.4128	0.4128
		Highest	0.6953	0.6953

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	0.4031	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-003	2.5000e-003	1.0000e-005	0.0000	2.6600e-003	
Energy	5.2900e-003	0.0481	0.0404	2.9000e-004		3.6600e-003	3.6600e-003		3.6600e-003	3.6600e-003	0.0000	268.6084	268.6084	0.0193	3.1700e-003	270.0351	
Mobile	0.1422	0.1884	1.3354	2.6200e-003	0.2777	2.1600e-003	0.2799	0.0743	2.0200e-003	0.0763	0.0000	242.0997	242.0997	0.0173	0.0123	246.2047	
Waste						0.0000	0.0000		0.0000	0.0000	23.9631	0.0000	23.9631	1.4162	0.0000	59.3675	
Water						0.0000	0.0000		0.0000	0.0000	6.9821	51.8543	58.8365	0.7215	0.0175	82.0784	
Total	0.5506	0.2365	1.3771	2.9100e-003	0.2777	5.8200e-003	0.2835	0.0743	5.6800e-003	0.0800	30.9452	562.5649	593.5101	2.1743	0.0330	657.6884	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.4031	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-003	2.5000e-003	1.0000e-005	0.0000	2.6600e-003	
Energy	5.2900e-003	0.0481	0.0404	2.9000e-004		3.6600e-003	3.6600e-003	3.6600e-003	3.6600e-003	0.0000	268.6084	268.6084	0.0193	3.1700e-003	270.0351		
Mobile	0.1422	0.1884	1.3354	2.6200e-003	0.2777	2.1600e-003	0.2799	0.0743	2.0200e-003	0.0763	0.0000	242.0997	242.0997	0.0173	0.0123	246.2047	
Waste						0.0000	0.0000		0.0000	0.0000	23.9631	0.0000	23.9631	1.4162	0.0000	59.3675	
Water						0.0000	0.0000		0.0000	0.0000	6.9821	51.8543	58.8365	0.7215	0.0175	82.0784	
Total	0.5506	0.2365	1.3771	2.9100e-003	0.2777	5.8200e-003	0.2835	0.0743	5.6800e-003	0.0800	30.9452	562.5649	593.5101	2.1743	0.0330	657.6884	

	ROG	NOx	CO	SO2	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	Site Preparation	Site Preparation	9/1/2024	9/6/2024	5	5	
2	Grading	Grading	9/7/2024	9/18/2024	5	8	
3	Building Construction	Building Construction	9/19/2024	12/12/2024	5	61	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Paving	Paving	12/13/2024	1/7/2025	5	18
5	Architectural Coating	Architectural Coating	1/8/2025	1/31/2025	5	18

Acres of Grading (Site Preparation Phase): 7.5**Acres of Grading (Grading Phase): 8****Acres of Paving: 2**

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 142,755; Non-Residential Outdoor: 47,585; Striped Parking Area: 5,224 (Architectural Coating – sqft)

OffRoad Equipment

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	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
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
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,849.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	85.00	33.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2024**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					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0679	0.0458	1.0000e-004		3.0700e-003	3.0700e-003		2.8300e-003	2.8300e-003	0.0000	8.3643	8.3643	2.7100e-003	0.0000	8.4319
Total	6.6500e-003	0.0679	0.0458	1.0000e-004	0.0491	3.0700e-003	0.0522	0.0253	2.8300e-003	0.0281	0.0000	8.3643	8.3643	2.7100e-003	0.0000	8.4319

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.2 Site Preparation - 2024****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	1.3000e-004	1.0000e-004	1.2700e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2894	0.2894	1.0000e-005	1.0000e-005	0.2924	
Total	1.3000e-004	1.0000e-004	1.2700e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2894	0.2894	1.0000e-005	1.0000e-005	0.2924	

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					0.0192	0.0000	0.0192	9.8500e-003	0.0000	9.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0679	0.0458	1.0000e-004		3.0700e-003	3.0700e-003		2.8300e-003	2.8300e-003	0.0000	8.3643	8.3643	2.7100e-003	0.0000	8.4319
Total	6.6500e-003	0.0679	0.0458	1.0000e-004	0.0192	3.0700e-003	0.0222	9.8500e-003	2.8300e-003	0.0127	0.0000	8.3643	8.3643	2.7100e-003	0.0000	8.4319

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.2 Site Preparation - 2024****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	1.3000e-004	1.0000e-004	1.2700e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2894	0.2894	1.0000e-005	1.0000e-005	0.2924	
Total	1.3000e-004	1.0000e-004	1.2700e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2894	0.2894	1.0000e-005	1.0000e-005	0.2924	

3.3 Grading - 2024**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					0.0292	0.0000	0.0292	0.0138	0.0000	0.0138	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0681	0.0590	1.2000e-004		2.9000e-003	2.9000e-003		2.6700e-003	2.6700e-003	0.0000	10.4256	10.4256	3.3700e-003	0.0000	10.5099
Total	6.6500e-003	0.0681	0.0590	1.2000e-004	0.0292	2.9000e-003	0.0321	0.0138	2.6700e-003	0.0165	0.0000	10.4256	10.4256	3.3700e-003	0.0000	10.5099

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.3 Grading - 2024****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	2.0700e-003	0.1114	0.0283	5.0000e-004	0.0159	7.2000e-004	0.0166	4.3700e-003	6.9000e-004	5.0600e-003	0.0000	48.5147	48.5147	3.1000e-004	7.6300e-003	50.7952	
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	1.7000e-004	1.4000e-004	1.7000e-003	0.0000	4.8000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3859	0.3859	1.0000e-005	1.0000e-005	0.3899	
Total	2.2400e-003	0.1116	0.0300	5.0000e-004	0.0164	7.2000e-004	0.0171	4.5000e-003	6.9000e-004	5.1900e-003	0.0000	48.9006	48.9006	3.2000e-004	7.6400e-003	51.1851	

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					0.0114	0.0000	0.0114	5.3900e-003	0.0000	5.3900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0681	0.0590	1.2000e-004		2.9000e-003	2.9000e-003	2.6700e-003	2.6700e-003	8.0600e-003	0.0000	10.4256	10.4256	3.3700e-003	0.0000	10.5099
Total	6.6500e-003	0.0681	0.0590	1.2000e-004	0.0114	2.9000e-003	0.0143	5.3900e-003	2.6700e-003	8.0600e-003	0.0000	10.4256	10.4256	3.3700e-003	0.0000	10.5099

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.3 Grading - 2024****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	2.0700e-003	0.1114	0.0283	5.0000e-004	0.0159	7.2000e-004	0.0166	4.3700e-003	6.9000e-004	5.0600e-003	0.0000	48.5147	48.5147	3.1000e-004	7.6300e-003	50.7952	
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	1.7000e-004	1.4000e-004	1.7000e-003	0.0000	4.8000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3859	0.3859	1.0000e-005	1.0000e-005	0.3899	
Total	2.2400e-003	0.1116	0.0300	5.0000e-004	0.0164	7.2000e-004	0.0171	4.5000e-003	6.9000e-004	5.1900e-003	0.0000	48.9006	48.9006	3.2000e-004	7.6400e-003	51.1851	

3.4 Building Construction - 2024**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	0.0449	0.4100	0.4931	8.2000e-004		0.0187	0.0187		0.0176	0.0176	0.0000	70.7140	70.7140	0.0167	0.0000	71.1320
Total	0.0449	0.4100	0.4931	8.2000e-004		0.0187	0.0187		0.0176	0.0176	0.0000	70.7140	70.7140	0.0167	0.0000	71.1320

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.4 Building Construction - 2024****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	1.1300e-003	0.0401	0.0154	1.9000e-004	6.7100e-003	2.0000e-004	6.9100e-003	1.9400e-003	1.9000e-004	2.1200e-003	0.0000	17.9914	17.9914	1.0000e-004	2.5900e-003	18.7669	
Worker	7.4800e-003	5.9200e-003	0.0734	1.8000e-004	0.0209	1.2000e-004	0.0210	5.5500e-003	1.1000e-004	5.6600e-003	0.0000	16.6746	16.6746	5.7000e-004	5.2000e-004	16.8447	
Total	8.6100e-003	0.0460	0.0887	3.7000e-004	0.0276	3.2000e-004	0.0279	7.4900e-003	3.0000e-004	7.7800e-003	0.0000	34.6660	34.6660	6.7000e-004	3.1100e-003	35.6117	

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	0.0449	0.4100	0.4931	8.2000e-004		0.0187	0.0187		0.0176	0.0176	0.0000	70.7139	70.7139	0.0167	0.0000	71.1319
Total	0.0449	0.4100	0.4931	8.2000e-004		0.0187	0.0187		0.0176	0.0176	0.0000	70.7139	70.7139	0.0167	0.0000	71.1319

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.4 Building Construction - 2024****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	1.1300e-003	0.0401	0.0154	1.9000e-004	6.7100e-003	2.0000e-004	6.9100e-003	1.9400e-003	1.9000e-004	2.1200e-003	0.0000	17.9914	17.9914	1.0000e-004	2.5900e-003	18.7669	
Worker	7.4800e-003	5.9200e-003	0.0734	1.8000e-004	0.0209	1.2000e-004	0.0210	5.5500e-003	1.1000e-004	5.6600e-003	0.0000	16.6746	16.6746	5.7000e-004	5.2000e-004	16.8447	
Total	8.6100e-003	0.0460	0.0887	3.7000e-004	0.0276	3.2000e-004	0.0279	7.4900e-003	3.0000e-004	7.7800e-003	0.0000	34.6660	34.6660	6.7000e-004	3.1100e-003	35.6117	

3.5 Paving - 2024**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	5.7300e-003	0.0538	0.0794	1.2000e-004		2.5900e-003	2.5900e-003		2.4000e-003	2.4000e-003	0.0000	10.6472	10.6472	3.3500e-003	0.0000	10.7308
Paving	1.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.6000e-003	0.0538	0.0794	1.2000e-004		2.5900e-003	2.5900e-003		2.4000e-003	2.4000e-003	0.0000	10.6472	10.6472	3.3500e-003	0.0000	10.7308

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.5 Paving - 2024****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	3.8000e-004	3.0000e-004	3.6800e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.8361	0.8361	3.0000e-005	3.0000e-005	0.8447	
Total	3.8000e-004	3.0000e-004	3.6800e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.8361	0.8361	3.0000e-005	3.0000e-005	0.8447	

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	5.7300e-003	0.0538	0.0794	1.2000e-004		2.5900e-003	2.5900e-003		2.4000e-003	2.4000e-003	0.0000	10.6472	10.6472	3.3500e-003	0.0000	10.7308
Paving	1.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.6000e-003	0.0538	0.0794	1.2000e-004		2.5900e-003	2.5900e-003		2.4000e-003	2.4000e-003	0.0000	10.6472	10.6472	3.3500e-003	0.0000	10.7308

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.5 Paving - 2024****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	3.8000e-004	3.0000e-004	3.6800e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.8361	0.8361	3.0000e-005	3.0000e-005	0.8447	
Total	3.8000e-004	3.0000e-004	3.6800e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.8361	0.8361	3.0000e-005	3.0000e-005	0.8447	

3.5 Paving - 2025**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	2.0500e-003	0.0188	0.0304	5.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	4.0946	4.0946	1.2900e-003	0.0000	4.1267
Paving	7.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.7700e-003	0.0188	0.0304	5.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	4.0946	4.0946	1.2900e-003	0.0000	4.1267

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.5 Paving - 2025****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	1.3000e-004	1.0000e-004	1.3100e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3109	0.3109	1.0000e-005	1.0000e-005	0.3139	
Total	1.3000e-004	1.0000e-004	1.3100e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3109	0.3109	1.0000e-005	1.0000e-005	0.3139	

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	2.0500e-003	0.0188	0.0304	5.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	4.0946	4.0946	1.2900e-003	0.0000	4.1267
Paving	7.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.7700e-003	0.0188	0.0304	5.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	4.0946	4.0946	1.2900e-003	0.0000	4.1267

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.5 Paving - 2025****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	1.3000e-004	1.0000e-004	1.3100e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3109	0.3109	1.0000e-005	1.0000e-005	0.3139	
Total	1.3000e-004	1.0000e-004	1.3100e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3109	0.3109	1.0000e-005	1.0000e-005	0.3139	

3.6 Architectural Coating - 2025**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	0.2547					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5400e-003	0.0103	0.0163	3.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3011
Total	0.2563	0.0103	0.0163	3.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3011

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.6 Architectural Coating - 2025****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	4.1000e-004	3.1000e-004	4.0100e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9513	0.9513	3.0000e-005	3.0000e-005	0.9606	
Total	4.1000e-004	3.1000e-004	4.0100e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9513	0.9513	3.0000e-005	3.0000e-005	0.9606	

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	0.2547					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5400e-003	0.0103	0.0163	3.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3011
Total	0.2563	0.0103	0.0163	3.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3011

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.6 Architectural Coating - 2025****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	4.1000e-004	3.1000e-004	4.0100e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9513	0.9513	3.0000e-005	3.0000e-005	0.9606	
Total	4.1000e-004	3.1000e-004	4.0100e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9513	0.9513	3.0000e-005	3.0000e-005	0.9606	

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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive 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	0.1422	0.1884	1.3354	2.6200e-003	0.2777	2.1600e-003	0.2799	0.0743	2.0200e-003	0.0763	0.0000	242.0997	242.0997	0.0173	0.0123	246.2047	
Unmitigated	0.1422	0.1884	1.3354	2.6200e-003	0.2777	2.1600e-003	0.2799	0.0743	2.0200e-003	0.0763	0.0000	242.0997	242.0997	0.0173	0.0123	246.2047	

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00				
Industrial Park	320.72	241.73	118.01	735,369			735,369
Other Asphalt Surfaces	0.00	0.00	0.00				
Other Non-Asphalt Surfaces	0.00	0.00	0.00				
Parking Lot	0.00	0.00	0.00				
Total	320.72	241.73	118.01	735,369			735,369

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
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.598468	0.051929	0.142496	0.115412	0.025941	0.007230	0.011936	0.009225	0.000692	0.000493	0.027552	0.002445	0.006180
Industrial Park	0.598468	0.051929	0.142496	0.115412	0.025941	0.007230	0.011936	0.009225	0.000692	0.000493	0.027552	0.002445	0.006180
Other Asphalt Surfaces	0.598468	0.051929	0.142496	0.115412	0.025941	0.007230	0.011936	0.009225	0.000692	0.000493	0.027552	0.002445	0.006180
Other Non-Asphalt Surfaces	0.598468	0.051929	0.142496	0.115412	0.025941	0.007230	0.011936	0.009225	0.000692	0.000493	0.027552	0.002445	0.006180
Parking Lot	0.598468	0.051929	0.142496	0.115412	0.025941	0.007230	0.011936	0.009225	0.000692	0.000493	0.027552	0.002445	0.006180

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	216.2477	216.2477	0.0183	2.2100e-003	217.3633
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	216.2477	216.2477	0.0183	2.2100e-003	217.3633
NaturalGas Mitigated	5.2900e-003	0.0481	0.0404	2.9000e-004		3.6600e-003	3.6600e-003		3.6600e-003	3.6600e-003	0.0000	52.3607	52.3607	1.0000e-003	9.6000e-004	52.6719
NaturalGas Unmitigated	5.2900e-003	0.0481	0.0404	2.9000e-004		3.6600e-003	3.6600e-003		3.6600e-003	3.6600e-003	0.0000	52.3607	52.3607	1.0000e-003	9.6000e-004	52.6719

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	981203	5.2900e-003	0.0481	0.0404	2.9000e-004		3.6600e-003	3.6600e-003		3.6600e-003	3.6600e-003	0.0000	52.3607	52.3607	1.0000e-003	9.6000e-004	52.6719
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		5.2900e-003	0.0481	0.0404	2.9000e-004		3.6600e-003	3.6600e-003		3.6600e-003	3.6600e-003	0.0000	52.3607	52.3607	1.0000e-003	9.6000e-004	52.6719

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	981203	5.2900e-003	0.0481	0.0404	2.9000e-004		3.6600e-003	3.6600e-003		3.6600e-003	3.6600e-003	0.0000	52.3607	52.3607	1.0000e-003	9.6000e-004	52.6719
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		5.2900e-003	0.0481	0.0404	2.9000e-004		3.6600e-003	3.6600e-003		3.6600e-003	3.6600e-003	0.0000	52.3607	52.3607	1.0000e-003	9.6000e-004	52.6719

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.18963e+006	210.9747	0.0178	2.1600e-003	212.0631
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	29732.8	5.2730	4.5000e-004	5.0000e-005	5.3002
Total		216.2477	0.0183	2.2100e-003	217.3633

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Industrial Park	1.18963e+006	210.9747	0.0178	2.1600e-003	212.0631
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	29732.8	5.2730	4.5000e-004	5.0000e-005	5.3002
Total		216.2477	0.0183	2.2100e-003	217.3633

6.0 Area Detail**6.1 Mitigation Measures Area**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive 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	0.4031	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-003	2.5000e-003	1.0000e-005	0.0000	2.6600e-003	
Unmitigated	0.4031	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-003	2.5000e-003	1.0000e-005	0.0000	2.6600e-003	

6.2 Area by SubCategoryUnmitigated

	ROG	NOx	CO	SO2	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	0.0255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.3775					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	1.2000e-004	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-003	2.5000e-003	1.0000e-005	0.0000	2.6600e-003	
Total	0.4031	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-003	2.5000e-003	1.0000e-005	0.0000	2.6600e-003	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.0255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3775					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-003	2.5000e-003	1.0000e-005	0.0000	2.6600e-003	
Total	0.4031	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-003	2.5000e-003	1.0000e-005	0.0000	2.6600e-003	

7.0 Water Detail**7.1 Mitigation Measures Water**

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	58.8365	0.7215	0.0175	82.0784
Unmitigated	58.8365	0.7215	0.0175	82.0784

7.2 Water by Land Use**Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.524252	1.0329	9.0000e- 005	1.0000e- 005	1.0383
Industrial Park	22.0081 / 0	57.8035	0.7214	0.0175	81.0401
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		58.8365	0.7215	0.0175	82.0784

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**7.2 Water by Land Use****Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.524252	1.0329	9.0000e- 005	1.0000e- 005	1.0383
Industrial Park	22.0081 / 0	57.8035	0.7214	0.0175	81.0401
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non- Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		58.8365	0.7215	0.0175	82.0784

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Category/Year**

	Total CO2	CH4	N2O	CO2e
MT/yr				
Mitigated	23.9631	1.4162	0.0000	59.3675
Unmitigated	23.9631	1.4162	0.0000	59.3675

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use tons MT/yr					
City Park	0.04	8.1200e-003	4.8000e-004	0.0000	0.0201
Industrial Park	118.01	23.9550	1.4157	0.0000	59.3474
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		23.9631	1.4162	0.0000	59.3675

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**8.2 Waste by Land Use****Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.04	8.1200e-003	4.8000e-004	0.0000	0.0201
Industrial Park	118.01	23.9550	1.4157	0.0000	59.3474
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		23.9631	1.4162	0.0000	59.3675

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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA**
Antelope Valley APCD Air District, Summer**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	95.17	1000sqft	2.18	95,170.00	0
Other Asphalt Surfaces	1.43	1000sqft	0.03	1,429.00	0
Other Non-Asphalt Surfaces	0.69	1000sqft	0.02	688.00	0
Parking Lot	42.00	Space	1.95	84,951.00	0
City Park	0.44	Acre	0.44	19,062.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Information provided by client.

Construction Phase - Schedule adjusted per start and end date provided on data request form.

Grading - Material import during Grading phase was provided by client.

Architectural Coating - VOC limits from AVAQMD Rule 1113. For the building, assumes 90% flat paint (50 g/L) and 10% non-flat (100 g/L). For parking lot coatings, assumed to be compliant with the Traffic Marking Coating category VOC limit of 100 g/L.

Vehicle Trips - All areas modeled as City Park are within the facility and no vehicle trips are expected.

Area Coating - VOC limits from AVAQMD Rule 1113. For the building, assumes 90% flat paint (50 g/L) and 10% non-flat (100 g/L). For parking lot coatings, assumed to be compliant with the Traffic Marking Coating category VOC limit of 100 g/L.

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Construction Off-road Equipment Mitigation - Assumes that construction site will be watered 3 times per day to be in compliance with AVAQMD Rule 403.

Area Mitigation --

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	55.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	55.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	55.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	55.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	55
tblAreaCoating	Area_EF_Nonresidential_Interior	250	55
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	55
tblAreaCoating	Area_EF_Residential_Interior	250	55
tblConstructionPhase	NumDays	230.00	61.00
tblConstructionPhase	PhaseEndDate	8/6/2025	12/12/2024
tblConstructionPhase	PhaseEndDate	9/1/2025	1/7/2025
tblConstructionPhase	PhaseEndDate	9/25/2025	1/31/2025
tblConstructionPhase	PhaseStartDate	8/7/2025	12/13/2024
tblConstructionPhase	PhaseStartDate	9/2/2025	1/8/2025
tblGrading	MaterialImported	0.00	14,789.00
tblLandUse	LandUseSquareFeet	1,430.00	1,429.00
tblLandUse	LandUseSquareFeet	690.00	688.00
tblLandUse	LandUseSquareFeet	16,800.00	84,951.00
tblLandUse	LandUseSquareFeet	19,166.40	19,062.00
tblLandUse	LotAcreage	0.38	1.95
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00

2.0 Emissions Summary

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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						
2024	2.7226	43.3790	22.2723	0.1568	19.8049	1.2302	21.0351	10.1417	1.1318	11.2735	0.0000	16,348.42 97	16,348.42 97	1.1970	2.1033	17,000.66 31	
2025	28.5272	7.5687	12.7840	0.0204	0.1643	0.3533	0.5176	0.0436	0.3268	0.3703	0.0000	1,954.834 0	1,954.834 0	0.5715	3.8500e-003	1,970.270 0	
Maximum	28.5272	43.3790	22.2723	0.1568	19.8049	1.2302	21.0351	10.1417	1.1318	11.2735	0.0000	16,348.42 97	16,348.42 97	1.1970	2.1033	17,000.66 31	

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						
2024	2.7226	43.3790	22.2723	0.1568	7.8141	1.2302	9.0443	3.9792	1.1318	5.1110	0.0000	16,348.42 97	16,348.42 97	1.1970	2.1033	17,000.66 31	
2025	28.5272	7.5687	12.7840	0.0204	0.1643	0.3533	0.5176	0.0436	0.3268	0.3703	0.0000	1,954.834 0	1,954.834 0	0.5715	3.8500e-003	1,970.270 0	
Maximum	28.5272	43.3790	22.2723	0.1568	7.8141	1.2302	9.0443	3.9792	1.1318	5.1110	0.0000	16,348.42 97	16,348.42 97	1.1970	2.1033	17,000.66 31	

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	60.05	0.00	55.63	60.50	0.00	52.93	0.00	0.00	0.00	0.00	0.00	0.00

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Area	2.2093	1.3000e-004	0.0142	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0306	0.0306	8.0000e-005		0.0326		
Energy	0.0290	0.2636	0.2214	1.5800e-003		0.0200	0.0200		0.0200	0.0200	316.2620	316.2620	6.0600e-003	5.8000e-003	318.1413		
Mobile	1.0760	1.0846	8.9243	0.0177	1.7793	0.0136	1.7929	0.4754	0.0127	0.4880	1,797.6384	1,797.6384	0.1138	0.0813	1,824.7200		
Total	3.3143	1.3483	9.1599	0.0193	1.7793	0.0337	1.8130	0.4754	0.0328	0.5081	2,113.9309	2,113.9309	0.1199	0.0871	2,142.8940		

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Area	2.2093	1.3000e-004	0.0142	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0306	0.0306	8.0000e-005		0.0326		
Energy	0.0290	0.2636	0.2214	1.5800e-003		0.0200	0.0200		0.0200	0.0200	316.2620	316.2620	6.0600e-003	5.8000e-003	318.1413		
Mobile	1.0760	1.0846	8.9243	0.0177	1.7793	0.0136	1.7929	0.4754	0.0127	0.4880	1,797.6384	1,797.6384	0.1138	0.0813	1,824.7200		
Total	3.3143	1.3483	9.1599	0.0193	1.7793	0.0337	1.8130	0.4754	0.0328	0.5081	2,113.9309	2,113.9309	0.1199	0.0871	2,142.8940		

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	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	Site Preparation	Site Preparation	9/1/2024	9/6/2024	5	5	
2	Grading	Grading	9/7/2024	9/18/2024	5	8	
3	Building Construction	Building Construction	9/19/2024	12/12/2024	5	61	
4	Paving	Paving	12/13/2024	1/7/2025	5	18	
5	Architectural Coating	Architectural Coating	1/8/2025	1/31/2025	5	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 2

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 142,755; Non-Residential Outdoor: 47,585; Striped Parking Area: 5,224 (Architectural Coating – sqft)

OffRoad Equipment

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	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,849.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	85.00	33.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.2 Site Preparation - 2024****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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000	
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928			3,717.8294
Total	2.6609	27.1760	18.3356	0.0381	19.6570	1.2294	20.8864	10.1025	1.1310	11.2335			3,688.0100	3,688.0100	1.1928		3,717.8294

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	0.0617	0.0368	0.5903	1.3800e-003	0.1479	8.6000e-004	0.1487	0.0392	7.9000e-004	0.0400			139.1677	139.1677	4.2200e-003	3.7300e-003	140.3837
Total	0.0617	0.0368	0.5903	1.3800e-003	0.1479	8.6000e-004	0.1487	0.0392	7.9000e-004	0.0400			139.1677	139.1677	4.2200e-003	3.7300e-003	140.3837

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.2 Site Preparation - 2024****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					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000	
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.0100	3,688.0100	1.1928			3,717.8294
Total	2.6609	27.1760	18.3356	0.0381	7.6662	1.2294	8.8956	3.9400	1.1310	5.0710	0.0000	3,688.0100	3,688.0100	1.1928			3,717.8294

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	0.0617	0.0368	0.5903	1.3800e-003	0.1479	8.6000e-004	0.1487	0.0392	7.9000e-004	0.0400			139.1677	139.1677	4.2200e-003	3.7300e-003	140.3837
Total	0.0617	0.0368	0.5903	1.3800e-003	0.1479	8.6000e-004	0.1487	0.0392	7.9000e-004	0.0400			139.1677	139.1677	4.2200e-003	3.7300e-003	140.3837

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.3 Grading - 2024****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					7.2917	0.0000	7.2917	3.4564	0.0000	3.4564			0.0000			0.0000	
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665		2,873.054 1	2,873.054 1	0.9292			2,896.284 2
Total	1.6617	17.0310	14.7594	0.0297	7.2917	0.7244	8.0161	3.4564	0.6665	4.1229		2,873.054 1	2,873.054 1	0.9292			2,896.284 2

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	0.5377	26.3174	7.0210	0.1260	4.0446	0.1796	4.2242	1.1088	0.1718	1.2806		13,359.40 26	13,359.40 26	0.0855	2.1002		13,987.39 25
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
Worker	0.0515	0.0307	0.4919	1.1500e-003	0.1232	7.2000e-004	0.1239	0.0327	6.6000e-004	0.0333		115.9730	115.9730	3.5200e-003	3.1100e-003		116.9864
Total	0.5891	26.3481	7.5130	0.1271	4.1678	0.1803	4.3481	1.1415	0.1725	1.3140		13,475.37 57	13,475.37 57	0.0890	2.1033		14,104.37 89

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.3 Grading - 2024****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					2.8437	0.0000	2.8437	1.3480	0.0000	1.3480			0.0000			0.0000	
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665	0.0000	2,873.054 1	2,873.054 1	0.9292		2,896.284 2	
Total	1.6617	17.0310	14.7594	0.0297	2.8437	0.7244	3.5682	1.3480	0.6665	2.0145	0.0000	2,873.054 1	2,873.054 1	0.9292		2,896.284 2	

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	0.5377	26.3174	7.0210	0.1260	4.0446	0.1796	4.2242	1.1088	0.1718	1.2806		13,359.40 26	13,359.40 26	0.0855	2.1002	13,987.39 25	
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	0.0515	0.0307	0.4919	1.1500e-003	0.1232	7.2000e-004	0.1239	0.0327	6.6000e-004	0.0333		115.9730	115.9730	3.5200e-003	3.1100e-003	116.9864	
Total	0.5891	26.3481	7.5130	0.1271	4.1678	0.1803	4.3481	1.1415	0.1725	1.3140		13,475.37 57	13,475.37 57	0.0890	2.1033	14,104.37 89	

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.4 Building Construction - 2024****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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	2,555.698	2,555.698	0.6044			2,570.807	
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	2,555.698	2,555.698	0.6044			2,570.807	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0387	1.2466	0.4970	6.1600e-003	0.2236	6.4500e-003	0.2300	0.0644	6.1700e-003	0.0705	649.4938	649.4938	3.7600e-003	0.0935		677.4626	
Worker	0.2915	0.1739	2.7876	6.5000e-003	0.6983	4.0600e-003	0.7023	0.1852	3.7400e-003	0.1890	657.1806	657.1806	0.0199	0.0176		662.9228	
Total	0.3302	1.4205	3.2845	0.0127	0.9218	0.0105	0.9323	0.2496	9.9100e-003	0.2595	1,306.674	1,306.674	0.0237	0.1111		1,340.385	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.4 Building Construction - 2024****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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698	2,555.698	0.6044		2,570.807	
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698	2,555.698	0.6044		2,570.807	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0387	1.2466	0.4970	6.1600e-003	0.2236	6.4500e-003	0.2300	0.0644	6.1700e-003	0.0705	649.4938	649.4938	3.7600e-003	0.0935	677.4626		
Worker	0.2915	0.1739	2.7876	6.5000e-003	0.6983	4.0600e-003	0.7023	0.1852	3.7400e-003	0.1890	657.1806	657.1806	0.0199	0.0176	662.9228		
Total	0.3302	1.4205	3.2845	0.0127	0.9218	0.0105	0.9323	0.2496	9.9100e-003	0.2595	1,306.674	1,306.674	0.0237	0.1111	1,340.385	4	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.5 Paving - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685	1,805.620 5	1,805.620 5	0.5673			1,819.803 9	
Paving	0.2882					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Total	1.1696	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685		1,805.620 5	1,805.620 5	0.5673			1,819.803 9

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0686	0.0409	0.6559	1.5300e-003	0.1643	9.5000e-004	0.1653	0.0436	8.8000e-004	0.0445		154.6307	154.6307	4.6900e-003	4.1400e-003	155.9818	
Total	0.0686	0.0409	0.6559	1.5300e-003	0.1643	9.5000e-004	0.1653	0.0436	8.8000e-004	0.0445		154.6307	154.6307	4.6900e-003	4.1400e-003	155.9818	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.8814	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685	0.0000	1,805.620	1,805.620	0.5673		1,819.809	
Paving	0.2882					0.0000	0.0000		0.0000	0.0000		0.0000				0.0000	
Total	1.1696	8.2730	12.2210	0.0189		0.3987	0.3987		0.3685	0.3685	0.0000	1,805.620	1,805.620	0.5673		1,819.809	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0686	0.0409	0.6559	1.5300e-003	0.1643	9.5000e-004	0.1653	0.0436	8.8000e-004	0.0445	154.6307	154.6307	4.6900e-003	4.1400e-003	155.9818		
Total	0.0686	0.0409	0.6559	1.5300e-003	0.1643	9.5000e-004	0.1653	0.0436	8.8000e-004	0.0445	154.6307	154.6307	4.6900e-003	4.1400e-003	155.9818		

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.5 Paving - 2025****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259	1,805.392 6	1,805.392 6	0.5673			1,819.574 1	
Paving	0.2882					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Total	1.1079	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259		1,805.392 6	1,805.392 6	0.5673			1,819.574 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0638	0.0367	0.6062	1.4800e-003	0.1643	9.1000e-004	0.1652	0.0436	8.4000e-004	0.0444		149.4415	149.4415	4.2300e-003	3.8500e-003	150.6959	
Total	0.0638	0.0367	0.6062	1.4800e-003	0.1643	9.1000e-004	0.1652	0.0436	8.4000e-004	0.0444		149.4415	149.4415	4.2300e-003	3.8500e-003	150.6959	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259	0.0000	1,805.392	1,805.392	0.5673		1,819.574	
Paving	0.2882					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	
Total	1.1079	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259	0.0000	1,805.392	1,805.392	0.5673		1,819.574	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0638	0.0367	0.6062	1.4800e-003	0.1643	9.1000e-004	0.1652	0.0436	8.4000e-004	0.0444	149.4415	149.4415	4.2300e-003	3.8500e-003	150.6959		
Total	0.0638	0.0367	0.6062	1.4800e-003	0.1643	9.1000e-004	0.1652	0.0436	8.4000e-004	0.0444	149.4415	149.4415	4.2300e-003	3.8500e-003	150.6959		

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.6 Architectural Coating - 2025****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	28.3021						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.1709	1.1455	1.8091	2.9700e-003			0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	28.4729	1.1455	1.8091	2.9700e-003			0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.0542	0.0312	0.5153	1.2600e-003	0.1397	7.7000e-004	0.1404	0.0370	7.1000e-004	0.0378			127.0252	127.0252	3.6000e-003	3.2800e-003	128.0915
Total	0.0542	0.0312	0.5153	1.2600e-003	0.1397	7.7000e-004	0.1404	0.0370	7.1000e-004	0.0378			127.0252	127.0252	3.6000e-003	3.2800e-003	128.0915

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.6 Architectural Coating - 2025****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	28.3021						0.0000	0.0000		0.0000			0.0000			0.0000	
Off-Road	0.1709	1.1455	1.8091	2.9700e-003			0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	28.4729	1.1455	1.8091	2.9700e-003			0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0542	0.0312	0.5153	1.2600e-003	0.1397	7.7000e-004	0.1404	0.0370	7.1000e-004	0.0378			127.0252	127.0252	3.6000e-003	3.2800e-003	128.0915
Total	0.0542	0.0312	0.5153	1.2600e-003	0.1397	7.7000e-004	0.1404	0.0370	7.1000e-004	0.0378			127.0252	127.0252	3.6000e-003	3.2800e-003	128.0915

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Mitigated	1.0760	1.0846	8.9243	0.0177	1.7793	0.0136	1.7929	0.4754	0.0127	0.4880	1,797.638 4	1,797.638 4	0.1138	0.0813	1,824.720 0		
Unmitigated	1.0760	1.0846	8.9243	0.0177	1.7793	0.0136	1.7929	0.4754	0.0127	0.4880	1,797.638 4	1,797.638 4	0.1138	0.0813	1,824.720 0		

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00				
Industrial Park	320.72	241.73	118.01	735,369		735,369	
Other Asphalt Surfaces	0.00	0.00	0.00				
Other Non-Asphalt Surfaces	0.00	0.00	0.00				
Parking Lot	0.00	0.00	0.00				
Total	320.72	241.73	118.01	735,369		735,369	

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
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.598468	0.051929	0.142496	0.115412	0.025941	0.007230	0.011936	0.009225	0.000692	0.000493	0.027552	0.002445	0.006180
Industrial Park	0.598468	0.051929	0.142496	0.115412	0.025941	0.007230	0.011936	0.009225	0.000692	0.000493	0.027552	0.002445	0.006180
Other Asphalt Surfaces	0.598468	0.051929	0.142496	0.115412	0.025941	0.007230	0.011936	0.009225	0.000692	0.000493	0.027552	0.002445	0.006180
Other Non-Asphalt Surfaces	0.598468	0.051929	0.142496	0.115412	0.025941	0.007230	0.011936	0.009225	0.000692	0.000493	0.027552	0.002445	0.006180
Parking Lot	0.598468	0.051929	0.142496	0.115412	0.025941	0.007230	0.011936	0.009225	0.000692	0.000493	0.027552	0.002445	0.006180

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive 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	0.0290	0.2636	0.2214	1.5800e-003		0.0200	0.0200		0.0200	0.0200	316.2620	316.2620	6.0600e-003	5.8000e-003	318.1413		
NaturalGas Unmitigated	0.0290	0.2636	0.2214	1.5800e-003		0.0200	0.0200		0.0200	0.0200	316.2620	316.2620	6.0600e-003	5.8000e-003	318.1413		

5.2 Energy by Land Use - NaturalGasUnmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day												lb/day				
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Industrial Park	2688.23	0.0290	0.2636	0.2214	1.5800e-003		0.0200	0.0200		0.0200	0.0200	316.2620	316.2620	6.0600e-003	5.8000e-003	318.1413		
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total		0.0290	0.2636	0.2214	1.5800e-003		0.0200	0.0200		0.0200	0.0200		316.2620	316.2620	6.0600e-003	5.8000e-003	318.1413	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial Park	2.68823	0.0290	0.2636	0.2214	1.5800e-003		0.0200	0.0200		0.0200	0.0200	316.2620	316.2620	6.0600e-003	5.8000e-003	318.1413	
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0290	0.2636	0.2214	1.5800e-003		0.0200	0.0200		0.0200	0.0200		316.2620	316.2620	6.0600e-003	5.8000e-003	318.1413

6.0 Area Detail**6.1 Mitigation Measures Area**

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Mitigated	2.2093	1.3000e-004	0.0142	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0306	0.0306	8.0000e-005		0.0326		
Unmitigated	2.2093	1.3000e-004	0.0142	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0306	0.0306	8.0000e-005		0.0326		

6.2 Area by SubCategoryUnmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1396					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	
Consumer Products	2.0685					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	
Landscaping	1.3100e-003	1.3000e-004	0.0142	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0306	0.0306	8.0000e-005		0.0326	
Total	2.2093	1.3000e-004	0.0142	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0306	0.0306	8.0000e-005		0.0326	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	lb/day										lb/day					
Architectural Coating	0.1396					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.0685					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3100e-003	1.3000e-004	0.0142	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0306	0.0306	8.0000e-005		0.0326
Total	2.2093	1.3000e-004	0.0142	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0306	0.0306	8.0000e-005		0.0326

7.0 Water Detail**7.1 Mitigation Measures Water**

Air Quality Study - Self-Storage Facility, APN 3118-006-057, Lancaster CA - Antelope Valley APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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
