



Date: April 28, 2023  
To: Ms. Shawna Ricker, Duke Engineering  
From: M. S. Hatch Consulting, LLC  
**Subject: Air Quality Study – BYD School Bus Manufacturing Plant, Lancaster, CA**

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M. S. Hatch Consulting, LLC (MSHC) appreciates the opportunity to prepare the air quality study for Duke Engineering for the proposed construction and operation of the BYD school bus manufacturing plant. The manufacturing plant would be constructed on approximately 28.5 acres, on a currently vacant lot, located in the City of Lancaster. This air quality study includes the estimated criteria pollutant and greenhouse gas (GHG) emissions from the construction and operation of the proposed project, and the toxic emissions from the proposed manufacturing process.

The designed production capacity of the proposed school bus manufacturing plant is 4,000 buses per year. BYD anticipates that it will take approximately three years to ramp up to this production level. In the first few years of operation, BYD expects the emissions from the new school bus manufacturing plant to be significantly less than the existing BYD Coach and Bus facility in Lancaster since most of the bonding and painting work will be initially performed in China. Therefore, for this analysis, the 2021 emissions inventory data from BYD Coach and Bus were used to conservatively estimate the emissions related to the near-term manufacturing activities at the proposed facility. As production at the new facility ramps up, the criteria pollutant and toxic emissions from the operation will increase. Any potential increase in emissions will be evaluated as part of the New Source Review permitting process implemented and enforced by Antelope Valley Air Quality Management District (AVAQMD) to determine whether emission control systems or other emission reduction measures will be required.

### **Executive Summary**

Table 1 and Table 2 compare the estimated annual and daily emissions summaries from the construction and operation of the proposed manufacturing plant to the significant emission thresholds described in the 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 as well as total operational emissions **are below the applicable thresholds**. GHG emissions are presented in units of carbon dioxide equivalent (CO<sub>2</sub>e).

The AVAQMD CEQA Guidelines require certain projects to be evaluated for potentially exposing sensitive receptors to substantial pollutant concentrations.<sup>1</sup> Due to the close proximity (approximately 300 meters) of a residence and because this proposed project is classified as industrial, the proposed manufacturing plant meets the criteria for the project types that must be evaluated for potentially exposing sensitive receptors to substantial pollutant concentrations. To establish whether a detailed health risk assessment would be justified to assess potential health impacts from the proposed facility to sensitive receptors, Cancer, Noncancer Chronic, and Noncancer Acute Prioritization Scores (PS) were calculated based on the 2021 Toxic Air Contaminants (TAC) emissions. The California Air Resources Board (CARB) Hotspots Analysis and Reporting Program Version 2 (HARP 2) tool was used, along with a conservative distance to the nearest receptor (i.e., 50 meters) to calculate the PS. Table 3 summarizes the Cancer, Noncancer Chronic, and Noncancer PS, which are all below the applicable AVAQMD trigger level for requiring an HRA. Facilities and operations with PS below trigger levels are not expected to cause a significant health impact to nearby receptors.

**Table 1. Annual Emissions Summary and Significance Thresholds**

Emissions Source	Total Emissions (tons per year)						
	ROG	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	CO <sub>2e</sub> (MT/year)
Year 1 Construction Emissions (2024)	0.42	3.24	4.18	0.01	0.82	0.32	1,097
Year 2 Construction Emissions (2025)	1.71	0.60	0.98	< 0.01	0.14	0.05	234
Total Operational Emissions	6.93	2.64	13.71	0.03	3.02	0.86	6,092
<b>Significant Emissions Threshold</b>	<b>25</b>	<b>25</b>	<b>100</b>	<b>25</b>	<b>15</b>	<b>12</b>	<b>100,000</b>

ROG: Reactive Organic Compounds, used interchangeably with Volatile Organic Compounds (VOC); NO<sub>x</sub>: oxides of nitrogen; CO: Carbon monoxide; SO<sub>x</sub>: Oxides of sulfur; PM<sub>2.5</sub>: particulate matter less than 2.5 micrometers in diameter; PM<sub>10</sub>: particulate matter less than 10 micrometers in diameter; CO<sub>2e</sub>: Carbon dioxide equivalent; MT: metric ton

**Table 2. Daily Emissions Summary and Significance Thresholds**

Emissions Source	Total Emissions (pounds per day)						
	ROG	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	CO <sub>2e</sub>
Year 1 Construction Emissions (2024)	3.50	32.42	36.31	0.10	9.04	5.11	10,802
Year 2 Construction Emissions (2025)	92.75	21.05	34.88	0.10	6.25	2.09	10,579
Total Operational Emissions	50.87	18.44	114.57	0.26	24.25	6.81	35,094
<b>Significant Emissions Threshold</b>	<b>137</b>	<b>137</b>	<b>548</b>	<b>137</b>	<b>82</b>	<b>65</b>	<b>548,000</b>

ROG: Reactive Organic Compounds, used interchangeably with Volatile Organic Compounds (VOC); NO<sub>x</sub>: oxides of nitrogen; CO: Carbon monoxide; SO<sub>x</sub>: Oxides of sulfur; PM<sub>2.5</sub>: particulate matter less than 2.5 micrometers in diameter; PM<sub>10</sub>: particulate matter less than 10 micrometers in diameter; CO<sub>2e</sub>: Carbon dioxide equivalent;

<sup>1</sup> 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 3. Cancer, Noncancer Chronic, and Noncancer Acute Prioritization Scores**

	<b>Cancer</b>	<b>Noncancer Chronic</b>	<b>Noncancer Acute</b>
Calculated Prioritization Score	2.46	6.62E-02	1.68
AVAQMD Trigger for Requiring an HRA	10	10	10
Exceeds Trigger Level?	No	No	No

### **Project Description**

The proposed project includes the construction of a school bus manufacturing plant on approximately 28.5 acres of land. The project site is currently a vacant lot located at the corner of 55th Street West and Avenue H in the City of Lancaster. The site location is included in Figure 1 and the proposed site plan is included in Figure 2.

**Figure 1. Regional Vicinity**

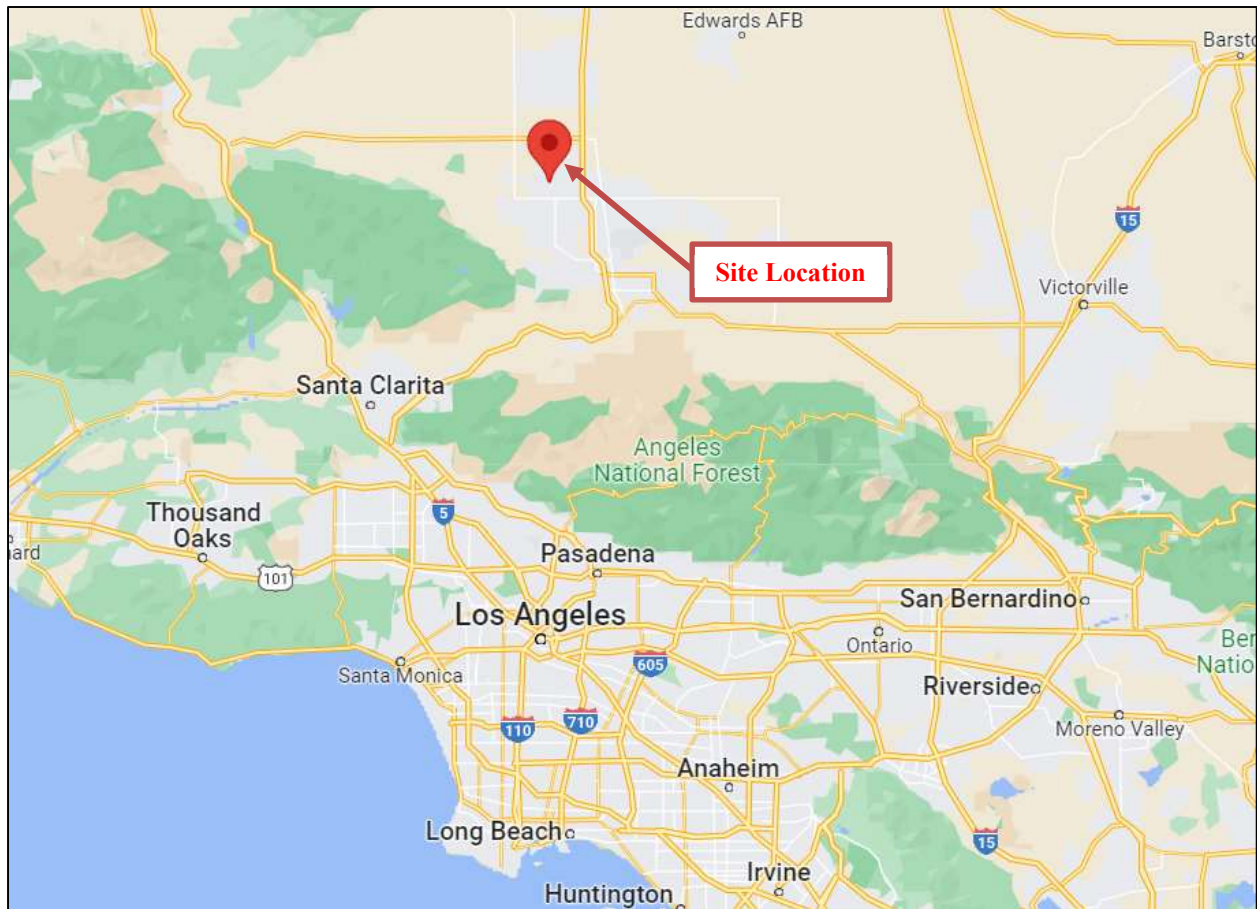
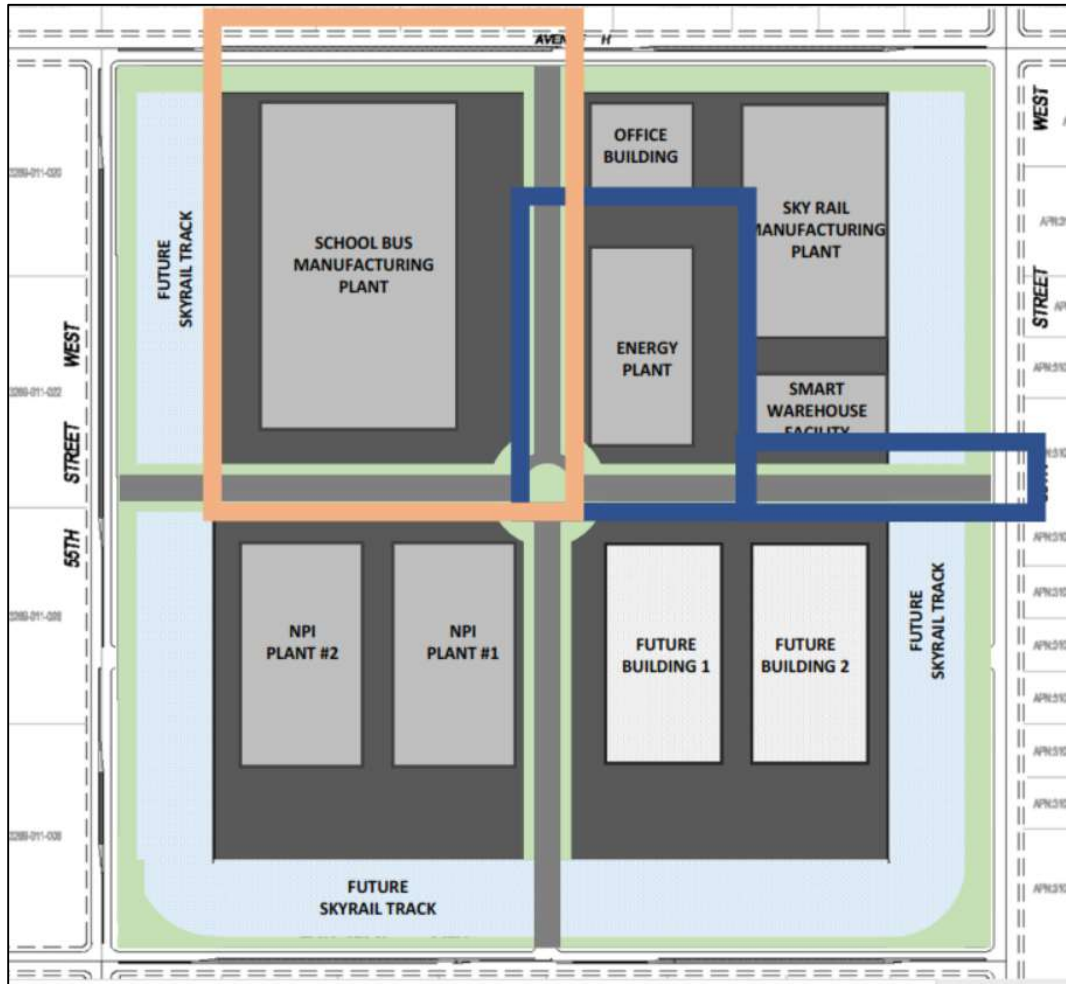


Figure 2. Site Plan – Proposed School Bus Manufacturing Plant, Lancaster, CA



### Sources of Emissions

The emissions associated with the proposed project consist of construction and operational emissions. Construction emissions are temporary and include emissions of criteria pollutants and greenhouse gases from construction activities during site preparation, grading, paving, building construction, and architectural coating. Operational emissions consist of those associated with the manufacturing process (e.g., coating, adhesives, sealants, and solvent application processes), area sources (e.g., re-applying architectural coatings, landscaping equipment), energy (i.e., electricity and natural gas use), and mobile sources (e.g., workers commuting, delivery trips).

### Emissions Estimates

Tables 4 and 5 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.

Operational emissions include emissions associated with the manufacturing process. The 2021 emissions inventory data from the existing BYD Coach and Bus plant in Lancaster was used to conservatively estimate the emissions associated with the near-term manufacturing activities.

**Table 4. Annual Construction and Operational Emissions Summary**

Emissions Source	Total Emissions (tons per year)						
	ROG	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	CO <sub>2e</sub> (MT/year)
Year 1 Construction Emissions (2024)	0.42	3.24	4.18	0.01	0.82	0.32	1,097
Year 2 Construction Emissions (2025)	1.71	0.60	0.98	< 0.01	0.14	0.05	234
<b>Operational Emissions</b>							
Area Sources	2.55	< 0.01	< 0.01	0	< 0.01	< 0.01	< 1
Energy	0.06	0.53	0.44	< 0.01	0.04	0.04	1,774
Mobile Sources	1.36	1.83	13.2	0.03	2.97	0.81	2,520
Waste	N/A	N/A	N/A	N/A	0	0	374
Water	N/A	N/A	N/A	N/A	0	0	513
Manufacturing Process	2.96	0.28	0.06	0.00	0.01	0.01	911
<b>Total Operational Emissions</b>	<b>6.93</b>	<b>2.64</b>	<b>13.70</b>	<b>0.03</b>	<b>3.02</b>	<b>0.86</b>	<b>6,092</b>
<b>Significant Emissions Threshold</b>	<b>25</b>	<b>25</b>	<b>100</b>	<b>25</b>	<b>15</b>	<b>12</b>	<b>100,000</b>

ROG: Reactive Organic Compounds, used interchangeably with Volatile Organic Compounds (VOC); NO<sub>x</sub>: oxides of nitrogen; CO: Carbon monoxide; SO<sub>x</sub>: Oxides of sulfur; PM<sub>2.5</sub>: particulate matter less than 2.5 micrometers in diameter; PM<sub>10</sub>: particulate matter less than 10 micrometers in diameter; CO<sub>2e</sub>: Carbon dioxide equivalent; MT: metric ton

**Table 5. Daily Construction and Operational Emissions Summary**

Emissions Source	Total Emissions (pounds per day)						
	ROG	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	CO <sub>2e</sub>
Year 1 Construction Emissions (2024)	3.50	32.42	36.31	0.10	9.04	5.11	10,802
Year 2 Construction Emissions (2025)	92.75	21.05	34.88	0.10	6.25	2.09	10,579
<b>Operational Emissions</b>							
Area Sources	13.95	< 0.01	0.06	0	< 0.01	< 0.01	< 1
Energy	0.32	2.89	2.43	0.02	0.22	0.22	3,494
Mobile Sources	12.91	13.28	111.62	0.23	23.96	6.52	23,566
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
Manufacturing Process	23.69	2.26	0.45	0.01	0.07	0.07	8,034
<b>Total Operational Emissions</b>	<b>50.87</b>	<b>18.43</b>	<b>114.56</b>	<b>0.26</b>	<b>24.25</b>	<b>6.81</b>	<b>35,094</b>
<b>Significant Emissions Threshold</b>	<b>137</b>	<b>137</b>	<b>548</b>	<b>137</b>	<b>82</b>	<b>65</b>	<b>548,000</b>

ROG: Reactive Organic Compounds, used interchangeably with Volatile Organic Compounds (VOC); NO<sub>x</sub>: oxides of nitrogen; CO: Carbon monoxide; SO<sub>x</sub>: Oxides of sulfur; PM<sub>2.5</sub>: particulate matter less than 2.5 micrometers in diameter; PM<sub>10</sub>: particulate matter less than 10 micrometers in diameter; CO<sub>2e</sub>: Carbon dioxide equivalent

This project is considered an industrial site, which the AVAQMD CEQA Guidelines require to be evaluated for potentially exposing sensitive receptors to substantial pollutant concentrations. To establish whether a detailed health risk assessment would be justified to assess potential health impacts from the proposed facility to sensitive receptors, Cancer, Noncancer Chronic, and Noncancer Acute PS were calculated based on the 2021 TAC emissions. The CARBHARP 2 tool was used, along with a conservative distance to nearest receptor (i.e.,

50 meters) to calculate the PS. TAC emissions are shown in Table 6. Table 7 summarizes the Cancer, Noncancer Chronic, and Noncancer PS, which are all below the applicable AVAQM trigger level for requiring an HRA. Facilities and operations with PS below trigger levels are not expected to cause a significant health impact to nearby receptors. The detailed PS calculations are included in Attachment C.

**Table 6. TAC Emissions**

CAS Number	Pollutant Name	Total Emissions, lb/year
95636	1,2,4TriMeBenze	3.78E+01
7440393	Barium	2.49E-02
7440508	Copper	4.81E-03
80159	Cumene HydPerOx	7.85E-01
25321226	DiClBenzenes	6.79E-03
67630	Isopropyl Alcoh	1.06E+02
71363	n-Butyl Alcohol	3.38E+01
108656	PGMEA	4.35E+02
7440622	Vanadium	1.30E-02
7440666	Zinc	3.74E+00
1314132	Zinc Oxide	1.18E+00
91576	2MeNaphthalene	1.36E-04
56495	3-MeCholanthren	1.02E-05
57976	7,12-DB[a]anthr	9.05E-05
83329	Acenaphthene	1.02E-05
208968	Acenaphthylene	1.02E-05
120127	Anthracene	1.36E-05
7440382	Arsenic	1.13E-03
56553	B[a]anthracene	1.02E-05
50328	B[a]P	9.05E-06
205992	B[b]fluoranthen	1.02E-05
191242	B[g,h,i]perylene	9.05E-06
205823	B[j]fluoranthen	1.02E-05
71432	Benzene	2.49E+00
7440417	Beryllium	6.79E-05
7440439	Cadmium	6.22E-03
7440473	Chromium	7.92E-03
218019	Chrysene	1.02E-05
7440484	Cobalt	4.75E-04
98828	Cumene	7.85E-01
53703	D[a,h]anthracen	9.05E-06
111762	EGBE	1.09E+00
100414	Ethyl Benzene	6.97E+01
107211	Ethylene Glycol	7.85E-01
206440	Fluoranthene	1.70E-05
86737	Fluorene	1.58E-05
50000	Formaldehyde	4.98E+00
110543	Hexane	2.47E+02

**Table 6. TAC Emissions**

CAS Number	Pollutant Name	Total Emissions, lb/year
193395	In[1,2,3-cd]pyr	1.02E-05
7439921	Lead	2.83E-03
7439965	Manganese	2.15E-03
78933	MEK	1.68E+01
7439976	Mercury	1.47E-03
67561	Methanol	4.66E+01
108101	MIBK	4.11E+02
91203	Naphthalene	3.45E-03
7440020	Nickel	1.19E-02
85018	Phenanthrene	9.62E-05
129000	Pyrene	2.83E-05
7782492	Selenium	1.36E-04
100425	Styrene	5.45E+02
108883	Toluene	1.51E+02
1330207	Xylenes	6.27E+01

Note: TAC emissions are based on the 2021 BYD Coach and Bus emissions Inventory  
CAS = Chemical Abstracts Service

**Table 7. Cancer, Noncancer Chronic, and Noncancer Acute Prioritization Scores**

	Cancer	Noncancer Chronic	Noncancer Acute
Calculated Prioritization Score	2.46	6.62E-02	1.68
AVAQMD Trigger for Requiring an HRA	10	10	10
Exceeds Trigger Level?	No	No	No

## Emissions Calculation Methodology

Construction and operational emissions, excluding emissions related to the manufacturing process, were based on five CalEEMod land use types: *General Heavy Industry*, *Parking Lot*, *Other Asphalt Surfaces*, *Other Non-Asphalt Surfaces*, and *City Park*. A discussion on the land use types that were used for the emissions modeling is included below.

### *CalEEMod Land Use Type: General Heavy Industry*

The *General Heavy Industry* land use type was used to model the emissions associated with the school bus manufacturing plant. The area of 600,000 square feet was provided by Duke Engineering.

### *CalEEMod Land Use Type: Parking Lot*

The *Parking Lot* land use type was used to model the emissions associated with the project's parking lot for employee and visitor parking. The parking lot acreage of 12.4 acres was provided by Duke Engineering.

### *CalEEMod Land Use Type: Other Non-Asphalt Surfaces*

The *Other Non-Asphalt Surfaces* land use type was used to model the emissions associated with sidewalks, ramps, and other concrete areas. The acreage of 0.69 acres for this land use type was provided by Duke Engineering.

*CalEEMod Land Use Type: Other Asphalt Surfaces*

The *Other Asphalt Surfaces* land use type was used to model the emissions associated with the project's paved area, such as public streets and driveways. The acreage of 0.92 acres for this land use type was provided by Duke Engineering.

*CalEEMod Land Use Type: City Park*

The *City Park* land use type was used to model the emissions associated with the project's landscaped area and open land. The acreage of 0.69 acres for this land use type was provided by Duke Engineering.

*Construction Emissions*

Construction emissions were calculated using CalEEMod defaults and input provided by Duke Engineering. Table 8 provides the anticipated construction schedule. The start date, end date, and number of days per week of construction were provided by Duke Engineering.

Table 9 provides the anticipated number of construction equipment that will be used during each phase, the hours per day the equipment will be operated, and the horsepower of the equipment, based on CalEEMod default values.

Based on input from Duke Engineering, this project will not require any material import or export during the *Site Preparation* or *Grading* phases; as such, the emissions for material haul trips were not included in the construction emissions. For fugitive dust emissions, CalEEMod defaults do not include any control of fugitive dust from project construction sites. AVAQMD Rule 403 requires that fugitive dust from any "active operation, open storage pile or disturbed surface area" be controlled so that the presence of dust is not visible in the atmosphere 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.<sup>2</sup>

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<sup>2</sup> 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.

**Table 8. Construction Schedule**

Construction Phase	Start Date	End Date	Days/week	Total Days
Demolition	N/A	N/A	N/A	N/A
Site Preparation	1/1/2024	1/26/2024	5	20
Grading	1/27/2024	3/29/2024	5	45
Building Construction	3/30/2024	2/24/2025	5	236
Paving	2/25/2025	4/14/2025	5	35
Architectural Coating	4/15/2025	6/2/2025	5	35

**Table 9. Construction Equipment**

Construction Phase	Equipment	Number of Equipment	Hours per day	Horsepower
Site Preparation	Rubber Tired Dozers	3	8	247
Site Preparation	Tractors/Loaders/Backhoes	4	8	97
Grading	Excavators	2	8	158
Grading	Graders	1	8	187
Grading	Rubber Tired Dozers	1	8	247
Grading	Scrapers	2	8	367
Grading	Tractors/Loaders/Backhoes	2	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	Pavers	2	8	130
Paving	Paving Equipment	2	8	132
Paving	Rollers	2	8	80
Architectural Coating	Air Compressors	1	6	78

*Operational Emissions*

Operational emissions consist of multiple sources of emissions. These include emissions associated with the manufacturing process (e.g., coating, adhesives, sealants, and solvent application processes), area sources (e.g., re-applying architectural coatings, landscaping equipment), energy (i.e., electricity and natural gas use), mobile sources (e.g., workers commuting, shipping, delivery trips, waste, and water). The source categories for the emissions associated with manufacturing and area sources were adjusted to estimate the emissions of the proposed project more accurately. The emissions associated with the remaining source categories were CalEEMod defaults.

A discussion into other adjusted source categories is included below.

*Operational Emissions Category: Manufacturing*

For this analysis, the 2021 emissions inventory data from the existing BYD Coach and Bus facility were used to conservatively estimate the emissions related to the near-term manufacturing activities. The

designed production capacity of the proposed school bus factory is 4,000 buses per year. However, it will take years to ramp up to this production level. In the first few years of operation, BYD expects the emissions from the new school bus manufacturing plant to be significantly less than the existing BYD Coach and Bus since most of the bonding and painting work will be initially performed in China.

*Operational Emissions Category: Area*

For architectural coating operations (i.e., re-applying coatings), VOC emissions were calculated based on the assumption that coatings would be compliant with the VOC content limits of AVAQMD Rule 1113.<sup>3</sup>

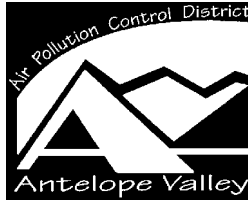
## **Findings**

The estimated emissions of criteria pollutants and GHG for each year of construction and the total operational emissions for the initial phases of the new proposed facility **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 TAC concentrations above significance thresholds. Since the construction and operational emissions are below the significance thresholds, emissions mitigation measures are not required. As production at the new facility ramps up, the criteria pollutant and toxic emissions from the manufacturing operation will increase. Any potential increase in emissions will be evaluated as part of the New Source Review permitting process implemented by AVAQMD to determine whether future emissions mitigation measures will be required.

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<sup>3</sup> 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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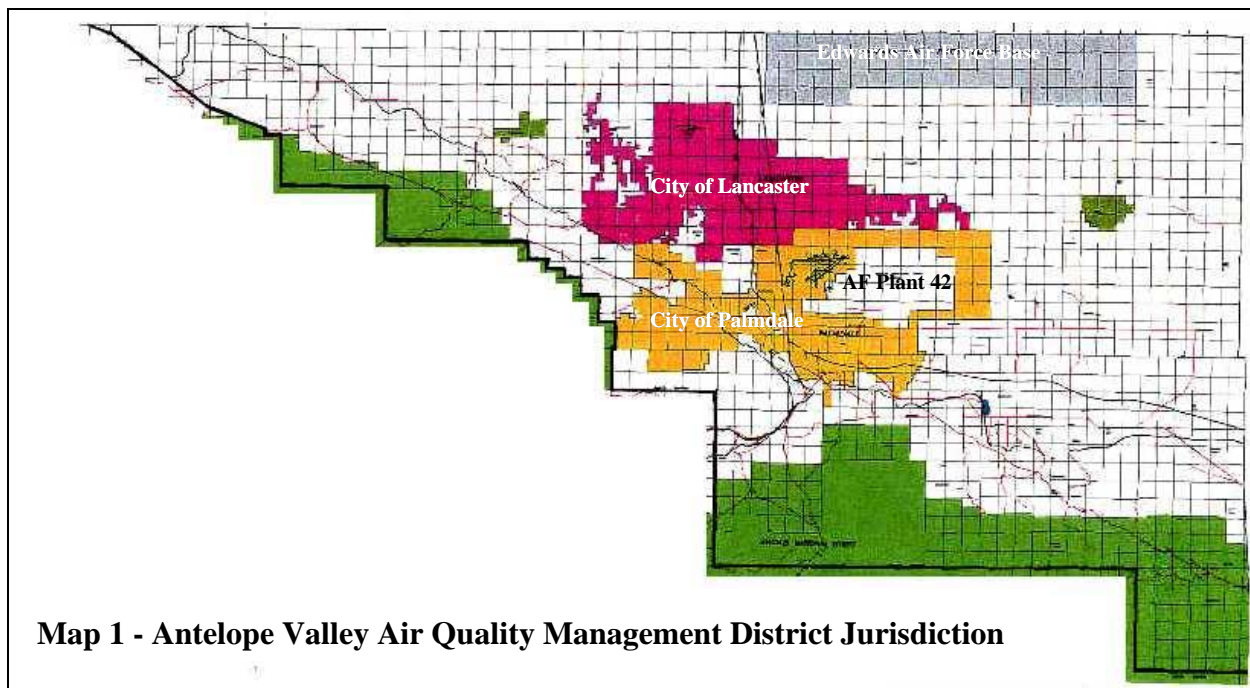
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## Background

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**

<b>Ambient Air Quality Standard</b>	<b>AVAQMD</b>
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 <sub>10</sub> 24-hour (Federal)	Unclassifiable/attainment
PM <sub>2.5</sub> Annual (Federal)	Unclassified/attainment
PM <sub>2.5</sub> 24-hour (Federal)	Unclassified/attainment
PM <sub>2.5</sub> (State)	Unclassified
PM <sub>10</sub> (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**

<b>Name of Plan</b>	<b>Date of Adoption</b>	<b>Standard(s) Targeted</b>	<b>Applicable Area</b>	<b>Pollutant(s) Targeted</b>	<b>Attainment Date*</b>
AVAQMD 2004 Ozone Attainment Plan (State and Federal)	4/2004	Federal one hour ozone	Entire District	NO <sub>x</sub> and VOC	2007
AVAQMD Federal 8-Hour Ozone Attainment Plan	5/20/2008	Federal eight hour ozone (84 ppb)	Entire District	NO <sub>x</sub> 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](http://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**

<b>Site</b>	<b>Address</b>	<b>Pollutants</b>	<b>Dates</b>
Lancaster	W. Ponderosa	O <sub>3</sub> , NO <sub>x</sub> , CO, PM <sub>10</sub> (Hi-Vol and TEOM)	7/1/97 to 11/01
Lancaster	W. Ponderosa	PM <sub>2.5</sub>	1/1/99 to 11/01
Lancaster	43301 Division St.	O <sub>3</sub> , NO <sub>x</sub> , CO, PM <sub>10</sub> (hourly), PM <sub>2.5</sub>	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**

<b>Site</b>	<b>Address</b>	<b>Data</b>	<b>Dates</b>
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 (BWwh), 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)<sup>1</sup>;

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<sup>1</sup> 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**

<b>Criteria Pollutant</b>	<b>Annual Threshold (tons)</b>	<b>Daily Threshold (pounds)</b>
Greenhouse Gases (CO <sub>2</sub> e)	100,000	548,000
Carbon Monoxide (CO)	100	548
Oxides of Nitrogen (NO <sub>x</sub> )	25	137
Volatile Organic Compounds (VOC)	25	137
Oxides of Sulfur (SO <sub>x</sub> )	25	137
Particulate Matter (PM <sub>10</sub> )	15	82
Particulate Matter (PM <sub>2.5</sub> )	12	65
Hydrogen Sulfide (H <sub>2</sub> 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 (CO<sub>2</sub>)** – 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<sub>x</sub>)** – Common product of combustion in the presence of nitrogen. Includes NO<sub>2</sub>, 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<sub>x</sub>)** – Common product of combustion in the presence of sulfur. Associated primarily with diesel and coal burning. Includes SO<sub>2</sub>, a criteria pollutant with state and federal standards. Primarily of concern near sources.

**Ozone (O<sub>3</sub>)** – 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 PM<sub>30</sub>)** – 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 PM<sub>10</sub>, and fine or PM<sub>2.5</sub>)** – 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 - BYD Plant, 55th St W & Ave H, 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 - BYD Plant, 55th St W & Ave H, 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
General Heavy Industry	600.00	1000sqft	13.77	600,000.00	0
City Park	0.69	Acre	0.69	30,000.00	0
Other Asphalt Surfaces	0.92	Acre	0.92	40,000.00	0
Other Non-Asphalt Surfaces	0.69	Acre	0.69	30,000.00	0
Parking Lot	12.40	Acre	12.40	540,013.32	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9	<b>Operational Year</b>	2026		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Information provided by client.

Construction Phase - Schedule adjusted according to start and end date 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.

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

## Air Quality Study - BYD Plant, 55th St W &amp; Ave H, 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**

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	440.00	236.00
tblConstructionPhase	PhaseEndDate	12/5/2025	2/24/2025
tblConstructionPhase	PhaseEndDate	1/23/2026	4/14/2025
tblConstructionPhase	PhaseEndDate	3/13/2026	6/2/2025
tblConstructionPhase	PhaseStartDate	12/6/2025	2/25/2025
tblConstructionPhase	PhaseStartDate	1/24/2026	4/15/2025
tblLandUse	LandUseSquareFeet	30,012.84	30,000.00
tblLandUse	LandUseSquareFeet	39,988.08	40,000.00
tblLandUse	LandUseSquareFeet	30,012.84	30,000.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
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

Air Quality Study - BYD Plant, 55th St W & Ave H, 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	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**

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Air Quality Study - BYD Plant, 55th St W & Ave H, 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	0.4164	3.2392	4.1751	0.0118	0.9553	0.1092	1.0644	0.3328	0.1018	0.4346	0.0000	1,076.0466	1,076.0466	0.1180	0.0620	1,097.4749
2025	1.7147	0.5952	0.9808	2.5300e-003	0.1250	0.0198	0.1448	0.0338	0.0186	0.0524	0.0000	230.1604	230.1604	0.0250	0.0123	234.4424
<b>Maximum</b>	<b>1.7147</b>	<b>3.2392</b>	<b>4.1751</b>	<b>0.0118</b>	<b>0.9553</b>	<b>0.1092</b>	<b>1.0644</b>	<b>0.3328</b>	<b>0.1018</b>	<b>0.4346</b>	<b>0.0000</b>	<b>1,076.0466</b>	<b>1,076.0466</b>	<b>0.1180</b>	<b>0.0620</b>	<b>1,097.4749</b>

**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	0.4164	3.2392	4.1751	0.0118	0.7091	0.1092	0.8182	0.2211	0.1018	0.3229	0.0000	1,076.0462	1,076.0462	0.1180	0.0620	1,097.4745
2025	1.7147	0.5952	0.9808	2.5300e-003	0.1250	0.0198	0.1448	0.0338	0.0186	0.0524	0.0000	230.1603	230.1603	0.0250	0.0123	234.4423
<b>Maximum</b>	<b>1.7147</b>	<b>3.2392</b>	<b>4.1751</b>	<b>0.0118</b>	<b>0.7091</b>	<b>0.1092</b>	<b>0.8182</b>	<b>0.2211</b>	<b>0.1018</b>	<b>0.3229</b>	<b>0.0000</b>	<b>1,076.0462</b>	<b>1,076.0462</b>	<b>0.1180</b>	<b>0.0620</b>	<b>1,097.4745</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

	ROG	NOx	CO	SO2	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	22.79	0.00	20.36	30.49	0.00	22.95	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	1-1-2024	3-31-2024	1.0997	1.0997
2	4-1-2024	6-30-2024	0.8344	0.8344
3	7-1-2024	9-30-2024	0.8436	0.8436
4	10-1-2024	12-31-2024	0.8538	0.8538
5	1-1-2025	3-31-2025	0.6159	0.6159
6	4-1-2025	6-30-2025	1.6994	1.6994
		Highest	1.6994	1.6994

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**2.2 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	2.5450	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0110	0.0110	3.0000e-005	0.0000	0.0117
Energy	0.0581	0.5282	0.4437	3.1700e-003		0.0402	0.0402		0.0402	0.0402	0.0000	1,764.1511	1,764.1511	0.1114	0.0227	1,773.7027
Mobile	1.3639	1.8305	13.2017	0.0269	2.9442	0.0217	2.9659	0.7877	0.0202	0.8080	0.0000	2,479.6926	2,479.6926	0.1692	0.1226	2,520.4463
Waste						0.0000	0.0000		0.0000	0.0000	151.0375	0.0000	151.0375	8.9261	0.0000	374.1889
Water						0.0000	0.0000		0.0000	0.0000	44.0190	322.0236	366.0426	4.5484	0.1101	512.5460
<b>Total</b>	<b>3.9670</b>	<b>2.3588</b>	<b>13.6511</b>	<b>0.0300</b>	<b>2.9442</b>	<b>0.0619</b>	<b>3.0061</b>	<b>0.7877</b>	<b>0.0604</b>	<b>0.8482</b>	<b>195.0564</b>	<b>4,565.8783</b>	<b>4,760.9347</b>	<b>13.7550</b>	<b>0.2553</b>	<b>5,180.8956</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**2.2 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	2.5450	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0110	0.0110	3.0000e-005	0.0000	0.0117
Energy	0.0581	0.5282	0.4437	3.1700e-003		0.0402	0.0402		0.0402	0.0402	0.0000	1,764.1511	1,764.1511	0.1114	0.0227	1,773.7027
Mobile	1.3639	1.8305	13.2017	0.0269	2.9442	0.0217	2.9659	0.7877	0.0202	0.8080	0.0000	2,479.6926	2,479.6926	0.1692	0.1226	2,520.4463
Waste						0.0000	0.0000		0.0000	0.0000	151.0375	0.0000	151.0375	8.9261	0.0000	374.1889
Water						0.0000	0.0000		0.0000	0.0000	44.0190	322.0236	366.0426	4.5484	0.1101	512.5460
<b>Total</b>	<b>3.9670</b>	<b>2.3588</b>	<b>13.6511</b>	<b>0.0300</b>	<b>2.9442</b>	<b>0.0619</b>	<b>3.0061</b>	<b>0.7877</b>	<b>0.0604</b>	<b>0.8482</b>	<b>195.0564</b>	<b>4,565.8783</b>	<b>4,760.9347</b>	<b>13.7550</b>	<b>0.2553</b>	<b>5,180.8956</b>

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

**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	1/1/2024	1/26/2024	5	20	
2	Grading	Grading	1/27/2024	3/29/2024	5	45	
3	Building Construction	Building Construction	3/30/2024	2/24/2025	5	236	

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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	2/25/2025	4/14/2025	5	35
5	Architectural Coating	Architectural Coating	4/15/2025	6/2/2025	5	35

**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 14.01**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 900,000; Non-Residential Outdoor: 300,000; Striped Parking Area: 36,601 (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	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
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	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

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

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	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	521.00	203.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	104.00	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					0.1966	0.0000	0.1966	0.1010	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.2718	0.1834	3.8000e-004		0.0123	0.0123		0.0113	0.0113	0.0000	33.4571	33.4571	0.0108	0.0000	33.7276
<b>Total</b>	<b>0.0266</b>	<b>0.2718</b>	<b>0.1834</b>	<b>3.8000e-004</b>	<b>0.1966</b>	<b>0.0123</b>	<b>0.2089</b>	<b>0.1010</b>	<b>0.0113</b>	<b>0.1123</b>	<b>0.0000</b>	<b>33.4571</b>	<b>33.4571</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7276</b>

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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	5.2000e-004	4.1000e-004	5.0900e-003	1.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.9000e-004	1.0000e-005	3.9000e-004	0.0000	1.1577	1.1577	4.0000e-005	4.0000e-005	1.1696
<b>Total</b>	<b>5.2000e-004</b>	<b>4.1000e-004</b>	<b>5.0900e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>1.0000e-005</b>	<b>1.4600e-003</b>	<b>3.9000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.1577</b>	<b>1.1577</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.1696</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0767	0.0000	0.0767	0.0394	0.0000	0.0394	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.2718	0.1834	3.8000e-004		0.0123	0.0123		0.0113	0.0113	0.0000	33.4570	33.4570	0.0108	0.0000	33.7275
<b>Total</b>	<b>0.0266</b>	<b>0.2718</b>	<b>0.1834</b>	<b>3.8000e-004</b>	<b>0.0767</b>	<b>0.0123</b>	<b>0.0890</b>	<b>0.0394</b>	<b>0.0113</b>	<b>0.0507</b>	<b>0.0000</b>	<b>33.4570</b>	<b>33.4570</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7275</b>

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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	5.2000e-004	4.1000e-004	5.0900e-003	1.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.9000e-004	1.0000e-005	3.9000e-004	0.0000	1.1577	1.1577	4.0000e-005	4.0000e-005	1.1696
<b>Total</b>	<b>5.2000e-004</b>	<b>4.1000e-004</b>	<b>5.0900e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>1.0000e-005</b>	<b>1.4600e-003</b>	<b>3.9000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.1577</b>	<b>1.1577</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.1696</b>

**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					0.2071	0.0000	0.2071	0.0822	0.0000	0.0822	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0724	0.7285	0.6238	1.4000e-003		0.0301	0.0301		0.0276	0.0276	0.0000	122.6689	122.6689	0.0397	0.0000	123.6608
<b>Total</b>	<b>0.0724</b>	<b>0.7285</b>	<b>0.6238</b>	<b>1.4000e-003</b>	<b>0.2071</b>	<b>0.0301</b>	<b>0.2371</b>	<b>0.0822</b>	<b>0.0276</b>	<b>0.1099</b>	<b>0.0000</b>	<b>122.6689</b>	<b>122.6689</b>	<b>0.0397</b>	<b>0.0000</b>	<b>123.6608</b>

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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	0.0000	0.0000	0.0000	0.0000	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-003	1.0300e-003	0.0127	3.0000e-005	3.6200e-003	2.0000e-005	3.6500e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.8943	2.8943	1.0000e-004	9.0000e-005	2.9239
<b>Total</b>	<b>1.3000e-003</b>	<b>1.0300e-003</b>	<b>0.0127</b>	<b>3.0000e-005</b>	<b>3.6200e-003</b>	<b>2.0000e-005</b>	<b>3.6500e-003</b>	<b>9.6000e-004</b>	<b>2.0000e-005</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>2.8943</b>	<b>2.8943</b>	<b>1.0000e-004</b>	<b>9.0000e-005</b>	<b>2.9239</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0808	0.0000	0.0808	0.0321	0.0000	0.0321	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0724	0.7285	0.6238	1.4000e-003		0.0301	0.0301		0.0276	0.0276	0.0000	122.6688	122.6688	0.0397	0.0000	123.6606
<b>Total</b>	<b>0.0724</b>	<b>0.7285</b>	<b>0.6238</b>	<b>1.4000e-003</b>	<b>0.0808</b>	<b>0.0301</b>	<b>0.1108</b>	<b>0.0321</b>	<b>0.0276</b>	<b>0.0597</b>	<b>0.0000</b>	<b>122.6688</b>	<b>122.6688</b>	<b>0.0397</b>	<b>0.0000</b>	<b>123.6606</b>

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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	0.0000	0.0000	0.0000	0.0000	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-003	1.0300e-003	0.0127	3.0000e-005	3.6200e-003	2.0000e-005	3.6500e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.8943	2.8943	1.0000e-004	9.0000e-005	2.9239
<b>Total</b>	<b>1.3000e-003</b>	<b>1.0300e-003</b>	<b>0.0127</b>	<b>3.0000e-005</b>	<b>3.6200e-003</b>	<b>2.0000e-005</b>	<b>3.6500e-003</b>	<b>9.6000e-004</b>	<b>2.0000e-005</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>2.8943</b>	<b>2.8943</b>	<b>1.0000e-004</b>	<b>9.0000e-005</b>	<b>2.9239</b>

**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	0.1450	1.3242	1.5924	2.6500e-003		0.0604	0.0604		0.0568	0.0568	0.0000	228.3714	228.3714	0.0540	0.0000	229.7215
<b>Total</b>	<b>0.1450</b>	<b>1.3242</b>	<b>1.5924</b>	<b>2.6500e-003</b>		<b>0.0604</b>	<b>0.0604</b>		<b>0.0568</b>	<b>0.0568</b>	<b>0.0000</b>	<b>228.3714</b>	<b>228.3714</b>	<b>0.0540</b>	<b>0.0000</b>	<b>229.7215</b>

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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	0.0225	0.7961	0.3052	3.7300e-003	0.1333	3.9100e-003	0.1372	0.0385	3.7400e-003	0.0422	0.0000	357.4244	357.4244	2.0400e-003	0.0515	372.8309
Worker	0.1481	0.1171	1.4525	3.6000e-003	0.4133	2.4500e-003	0.4157	0.1098	2.2600e-003	0.1120	0.0000	330.0728	330.0728	0.0113	0.0104	333.4408
<b>Total</b>	<b>0.1706</b>	<b>0.9133</b>	<b>1.7577</b>	<b>7.3300e-003</b>	<b>0.5466</b>	<b>6.3600e-003</b>	<b>0.5529</b>	<b>0.1483</b>	<b>6.0000e-003</b>	<b>0.1543</b>	<b>0.0000</b>	<b>687.4972</b>	<b>687.4972</b>	<b>0.0134</b>	<b>0.0619</b>	<b>706.2717</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1450	1.3242	1.5924	2.6500e-003		0.0604	0.0604		0.0568	0.0568	0.0000	228.3711	228.3711	0.0540	0.0000	229.7212
<b>Total</b>	<b>0.1450</b>	<b>1.3242</b>	<b>1.5924</b>	<b>2.6500e-003</b>		<b>0.0604</b>	<b>0.0604</b>		<b>0.0568</b>	<b>0.0568</b>	<b>0.0000</b>	<b>228.3711</b>	<b>228.3711</b>	<b>0.0540</b>	<b>0.0000</b>	<b>229.7212</b>

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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	0.0225	0.7961	0.3052	3.7300e-003	0.1333	3.9100e-003	0.1372	0.0385	3.7400e-003	0.0422	0.0000	357.4244	357.4244	2.0400e-003	0.0515	372.8309
Worker	0.1481	0.1171	1.4525	3.6000e-003	0.4133	2.4500e-003	0.4157	0.1098	2.2600e-003	0.1120	0.0000	330.0728	330.0728	0.0113	0.0104	333.4408
<b>Total</b>	<b>0.1706</b>	<b>0.9133</b>	<b>1.7577</b>	<b>7.3300e-003</b>	<b>0.5466</b>	<b>6.3600e-003</b>	<b>0.5529</b>	<b>0.1483</b>	<b>6.0000e-003</b>	<b>0.1543</b>	<b>0.0000</b>	<b>687.4972</b>	<b>687.4972</b>	<b>0.0134</b>	<b>0.0619</b>	<b>706.2717</b>

**3.4 Building Construction - 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	0.0267	0.2432	0.3137	5.3000e-004		0.0103	0.0103		9.6800e-003	9.6800e-003	0.0000	45.2243	45.2243	0.0106	0.0000	45.4901
<b>Total</b>	<b>0.0267</b>	<b>0.2432</b>	<b>0.3137</b>	<b>5.3000e-004</b>		<b>0.0103</b>	<b>0.0103</b>		<b>9.6800e-003</b>	<b>9.6800e-003</b>	<b>0.0000</b>	<b>45.2243</b>	<b>45.2243</b>	<b>0.0106</b>	<b>0.0000</b>	<b>45.4901</b>

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**3.4 Building Construction - 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	4.3800e-003	0.1568	0.0595	7.2000e-004	0.0264	7.7000e-004	0.0272	7.6100e-003	7.4000e-004	8.3500e-003	0.0000	69.3218	69.3218	3.9000e-004	9.9700e-003	72.3028
Worker	0.0273	0.0208	0.2663	6.9000e-004	0.0818	4.6000e-004	0.0823	0.0217	4.2000e-004	0.0222	0.0000	63.1649	63.1649	2.0300e-003	1.9100e-003	63.7839
<b>Total</b>	<b>0.0316</b>	<b>0.1775</b>	<b>0.3257</b>	<b>1.4100e-003</b>	<b>0.1082</b>	<b>1.2300e-003</b>	<b>0.1094</b>	<b>0.0293</b>	<b>1.1600e-003</b>	<b>0.0305</b>	<b>0.0000</b>	<b>132.4866</b>	<b>132.4866</b>	<b>2.4200e-003</b>	<b>0.0119</b>	<b>136.0866</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0267	0.2432	0.3137	5.3000e-004		0.0103	0.0103		9.6800e-003	9.6800e-003	0.0000	45.2242	45.2242	0.0106	0.0000	45.4900
<b>Total</b>	<b>0.0267</b>	<b>0.2432</b>	<b>0.3137</b>	<b>5.3000e-004</b>		<b>0.0103</b>	<b>0.0103</b>		<b>9.6800e-003</b>	<b>9.6800e-003</b>	<b>0.0000</b>	<b>45.2242</b>	<b>45.2242</b>	<b>0.0106</b>	<b>0.0000</b>	<b>45.4900</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**3.4 Building Construction - 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	4.3800e-003	0.1568	0.0595	7.2000e-004	0.0264	7.7000e-004	0.0272	7.6100e-003	7.4000e-004	8.3500e-003	0.0000	69.3218	69.3218	3.9000e-004	9.9700e-003	72.3028
Worker	0.0273	0.0208	0.2663	6.9000e-004	0.0818	4.6000e-004	0.0823	0.0217	4.2000e-004	0.0222	0.0000	63.1649	63.1649	2.0300e-003	1.9100e-003	63.7839
<b>Total</b>	<b>0.0316</b>	<b>0.1775</b>	<b>0.3257</b>	<b>1.4100e-003</b>	<b>0.1082</b>	<b>1.2300e-003</b>	<b>0.1094</b>	<b>0.0293</b>	<b>1.1600e-003</b>	<b>0.0305</b>	<b>0.0000</b>	<b>132.4866</b>	<b>132.4866</b>	<b>2.4200e-003</b>	<b>0.0119</b>	<b>136.0866</b>

**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	0.0160	0.1502	0.2551	4.0000e-004		7.3200e-003	7.3200e-003		6.7400e-003	6.7400e-003	0.0000	35.0337	35.0337	0.0113	0.0000	35.3170
Paving	0.0175					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0335</b>	<b>0.1502</b>	<b>0.2551</b>	<b>4.0000e-004</b>		<b>7.3200e-003</b>	<b>7.3200e-003</b>		<b>6.7400e-003</b>	<b>6.7400e-003</b>	<b>0.0000</b>	<b>35.0337</b>	<b>35.0337</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3170</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**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	7.0000e-004	5.4000e-004	6.8800e-003	2.0000e-005	2.1100e-003	1.0000e-005	2.1300e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.6321	1.6321	5.0000e-005	5.0000e-005	1.6480
<b>Total</b>	<b>7.0000e-004</b>	<b>5.4000e-004</b>	<b>6.8800e-003</b>	<b>2.0000e-005</b>	<b>2.1100e-003</b>	<b>1.0000e-005</b>	<b>2.1300e-003</b>	<b>5.6000e-004</b>	<b>1.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>1.6321</b>	<b>1.6321</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>1.6480</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0160	0.1502	0.2551	4.0000e-004		7.3200e-003	7.3200e-003		6.7400e-003	6.7400e-003	0.0000	35.0337	35.0337	0.0113	0.0000	35.3169
Paving	0.0175					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0335</b>	<b>0.1502</b>	<b>0.2551</b>	<b>4.0000e-004</b>		<b>7.3200e-003</b>	<b>7.3200e-003</b>		<b>6.7400e-003</b>	<b>6.7400e-003</b>	<b>0.0000</b>	<b>35.0337</b>	<b>35.0337</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3169</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**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	7.0000e-004	5.4000e-004	6.8800e-003	2.0000e-005	2.1100e-003	1.0000e-005	2.1300e-003	5.6000e-004	1.0000e-005	5.7000e-004	0.0000	1.6321	1.6321	5.0000e-005	5.0000e-005	1.6480
<b>Total</b>	<b>7.0000e-004</b>	<b>5.4000e-004</b>	<b>6.8800e-003</b>	<b>2.0000e-005</b>	<b>2.1100e-003</b>	<b>1.0000e-005</b>	<b>2.1300e-003</b>	<b>5.6000e-004</b>	<b>1.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>1.6321</b>	<b>1.6321</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>1.6480</b>

**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	1.6144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0317	5.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	4.4682	4.4682	2.4000e-004	0.0000	4.4743
<b>Total</b>	<b>1.6174</b>	<b>0.0201</b>	<b>0.0317</b>	<b>5.0000e-005</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>4.4682</b>	<b>4.4682</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>4.4743</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**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	4.8800e-003	3.7200e-003	0.0477	1.2000e-004	0.0147	8.0000e-005	0.0147	3.8900e-003	8.0000e-005	3.9700e-003	0.0000	11.3155	11.3155	3.6000e-004	3.4000e-004	11.4264
<b>Total</b>	<b>4.8800e-003</b>	<b>3.7200e-003</b>	<b>0.0477</b>	<b>1.2000e-004</b>	<b>0.0147</b>	<b>8.0000e-005</b>	<b>0.0147</b>	<b>3.8900e-003</b>	<b>8.0000e-005</b>	<b>3.9700e-003</b>	<b>0.0000</b>	<b>11.3155</b>	<b>11.3155</b>	<b>3.6000e-004</b>	<b>3.4000e-004</b>	<b>11.4264</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0317	5.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	4.4682	4.4682	2.4000e-004	0.0000	4.4743
<b>Total</b>	<b>1.6174</b>	<b>0.0201</b>	<b>0.0317</b>	<b>5.0000e-005</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>4.4682</b>	<b>4.4682</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>4.4743</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**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	4.8800e-003	3.7200e-003	0.0477	1.2000e-004	0.0147	8.0000e-005	0.0147	3.8900e-003	8.0000e-005	3.9700e-003	0.0000	11.3155	11.3155	3.6000e-004	3.4000e-004	11.4264
<b>Total</b>	<b>4.8800e-003</b>	<b>3.7200e-003</b>	<b>0.0477</b>	<b>1.2000e-004</b>	<b>0.0147</b>	<b>8.0000e-005</b>	<b>0.0147</b>	<b>3.8900e-003</b>	<b>8.0000e-005</b>	<b>3.9700e-003</b>	<b>0.0000</b>	<b>11.3155</b>	<b>11.3155</b>	<b>3.6000e-004</b>	<b>3.4000e-004</b>	<b>11.4264</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

	ROG	NOx	CO	SO2	Fugitive 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	1.3639	1.8305	13.2017	0.0269	2.9442	0.0217	2.9659	0.7877	0.0202	0.8080	0.0000	2,479.6926	2,479.6926	0.1692	0.1226	2,520.4463
Unmitigated	1.3639	1.8305	13.2017	0.0269	2.9442	0.0217	2.9659	0.7877	0.0202	0.8080	0.0000	2,479.6926	2,479.6926	0.1692	0.1226	2,520.4463

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	2,358.00	3,852.00	3054.00	7,797,597	7,797,597
City Park	0.00	0.00	0.00		
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		
<b>Total</b>	<b>2,358.00</b>	<b>3,852.00</b>	<b>3,054.00</b>	<b>7,797,597</b>	<b>7,797,597</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
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**

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.603377	0.051886	0.141906	0.112313	0.025216	0.007131	0.012268	0.009274	0.000704	0.000491	0.027212	0.002387	0.005833
City Park	0.603377	0.051886	0.141906	0.112313	0.025216	0.007131	0.012268	0.009274	0.000704	0.000491	0.027212	0.002387	0.005833
Other Asphalt Surfaces	0.603377	0.051886	0.141906	0.112313	0.025216	0.007131	0.012268	0.009274	0.000704	0.000491	0.027212	0.002387	0.005833
Other Non-Asphalt Surfaces	0.603377	0.051886	0.141906	0.112313	0.025216	0.007131	0.012268	0.009274	0.000704	0.000491	0.027212	0.002387	0.005833
Parking Lot	0.603377	0.051886	0.141906	0.112313	0.025216	0.007131	0.012268	0.009274	0.000704	0.000491	0.027212	0.002387	0.005833

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,189.1027	1,189.1027	0.1004	0.0122	1,195.2371
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,189.1027	1,189.1027	0.1004	0.0122	1,195.2371
NaturalGas Mitigated	0.0581	0.5282	0.4437	3.1700e-003		0.0402	0.0402		0.0402	0.0402	0.0000	575.0484	575.0484	0.0110	0.0105	578.4656
NaturalGas Unmitigated	0.0581	0.5282	0.4437	3.1700e-003		0.0402	0.0402		0.0402	0.0402	0.0000	575.0484	575.0484	0.0110	0.0105	578.4656

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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 s 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
General Heavy Industry	1.0776e +007	0.0581	0.5282	0.4437	3.1700e- 003		0.0402	0.0402		0.0402	0.0402	0.0000	575.0484	575.0484	0.0110	0.0105	578.4656
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
<b>Total</b>		<b>0.0581</b>	<b>0.5282</b>	<b>0.4437</b>	<b>3.1700e- 003</b>		<b>0.0402</b>	<b>0.0402</b>		<b>0.0402</b>	<b>0.0402</b>	<b>0.0000</b>	<b>575.0484</b>	<b>575.0484</b>	<b>0.0110</b>	<b>0.0105</b>	<b>578.4656</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**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
General Heavy Industry	1.0776e+007	0.0581	0.5282	0.4437	3.1700e-003		0.0402	0.0402		0.0402	0.0402	0.0000	575.0484	575.0484	0.0110	0.0105	578.4656
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
<b>Total</b>		<b>0.0581</b>	<b>0.5282</b>	<b>0.4437</b>	<b>3.1700e-003</b>		<b>0.0402</b>	<b>0.0402</b>		<b>0.0402</b>	<b>0.0402</b>	<b>0.0000</b>	<b>575.0484</b>	<b>575.0484</b>	<b>0.0110</b>	<b>0.0105</b>	<b>578.4656</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**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
General Heavy Industry	6.516e+006	1,155.5836	0.0975	0.0118	1,161.5450
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	189005	33.5191	2.8300e-003	3.4000e-004	33.6921
<b>Total</b>		<b>1,189.1027</b>	<b>0.1004</b>	<b>0.0122</b>	<b>1,195.2371</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**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
General Heavy Industry	6.516e+006	1,155.5836	0.0975	0.0118	1,161.5450
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	189005	33.5191	2.8300e-003	3.4000e-004	33.6921
<b>Total</b>		<b>1,189.1027</b>	<b>0.1004</b>	<b>0.0122</b>	<b>1,195.2371</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

	ROG	NOx	CO	SO2	Fugitive 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	2.5450	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0110	0.0110	3.0000e-005	0.0000	0.0117
Unmitigated	2.5450	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0110	0.0110	3.0000e-005	0.0000	0.0117

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1614					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3830					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.2000e-004	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0110	0.0110	3.0000e-005	0.0000	0.0117
<b>Total</b>	<b>2.5450</b>	<b>5.0000e-005</b>	<b>5.6300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0110</b>	<b>0.0110</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0117</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**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	0.1614					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3830					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.2000e-004	5.0000e-005	5.6300e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0110	0.0110	3.0000e-005	0.0000	0.0117
<b>Total</b>	<b>2.5450</b>	<b>5.0000e-005</b>	<b>5.6300e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0110</b>	<b>0.0110</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0117</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Air Quality Study - BYD Plant, 55th St W & Ave H, 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	366.0426	4.5484	0.1101	512.5460
Unmitigated	366.0426	4.5484	0.1101	512.5460

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.822122	1.6198	1.4000e-004	2.0000e-005	1.6282
General Heavy Industry	138.75 / 0	364.4227	4.5482	0.1100	510.9178
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
<b>Total</b>		<b>366.0426</b>	<b>4.5484</b>	<b>0.1101</b>	<b>512.5460</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.822122	1.6198	1.4000e-004	2.0000e-005	1.6282
General Heavy Industry	138.75 / 0	364.4227	4.5482	0.1100	510.9178
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
<b>Total</b>		<b>366.0426</b>	<b>4.5484</b>	<b>0.1101</b>	<b>512.5460</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Air Quality Study - BYD Plant, 55th St W & Ave H, 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	151.0375	8.9261	0.0000	374.1889
Unmitigated	151.0375	8.9261	0.0000	374.1889

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.06	0.0122	7.2000e-004	0.0000	0.0302
General Heavy Industry	744	151.0253	8.9253	0.0000	374.1587
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
<b>Total</b>		<b>151.0375</b>	<b>8.9261</b>	<b>0.0000</b>	<b>374.1889</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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	0.06	0.0122	7.2000e-004	0.0000	0.0302
General Heavy Industry	744	151.0253	8.9253	0.0000	374.1587
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
<b>Total</b>		<b>151.0375</b>	<b>8.9261</b>	<b>0.0000</b>	<b>374.1889</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**Air Quality Study - BYD Plant, 55th St W & Ave H, 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
General Heavy Industry	600.00	1000sqft	13.77	600,000.00	0
City Park	0.69	Acre	0.69	30,000.00	0
Other Asphalt Surfaces	0.92	Acre	0.92	40,000.00	0
Other Non-Asphalt Surfaces	0.69	Acre	0.69	30,000.00	0
Parking Lot	12.40	Acre	12.40	540,013.32	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9	<b>Operational Year</b>	2026		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Information provided by client.

Construction Phase - Schedule adjusted according to start and end date 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.

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

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

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	440.00	236.00
tblConstructionPhase	PhaseEndDate	12/5/2025	2/24/2025
tblConstructionPhase	PhaseEndDate	1/23/2026	4/14/2025
tblConstructionPhase	PhaseEndDate	3/13/2026	6/2/2025
tblConstructionPhase	PhaseStartDate	12/6/2025	2/25/2025
tblConstructionPhase	PhaseStartDate	1/24/2026	4/15/2025
tblLandUse	LandUseSquareFeet	30,012.84	30,000.00
tblLandUse	LandUseSquareFeet	39,988.08	40,000.00
tblLandUse	LandUseSquareFeet	30,012.84	30,000.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
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

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

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**

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Air Quality Study - BYD Plant, 55th St W & Ave H, 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	3.4963	32.4179	36.3100	0.1047	19.8049	1.3364	21.0351	10.1417	1.2295	11.2735	0.0000	10,579.19 99	10,579.19 99	1.9484	0.6833	10,801.55 59
2025	92.7524	21.0523	34.8839	0.1026	5.6551	0.5908	6.2459	1.5312	0.5559	2.0870	0.0000	10,363.59 87	10,363.59 87	0.7339	0.6628	10,579.46 36
<b>Maximum</b>	<b>92.7524</b>	<b>32.4179</b>	<b>36.3100</b>	<b>0.1047</b>	<b>19.8049</b>	<b>1.3364</b>	<b>21.0351</b>	<b>10.1417</b>	<b>1.2295</b>	<b>11.2735</b>	<b>0.0000</b>	<b>10,579.19 99</b>	<b>10,579.19 99</b>	<b>1.9484</b>	<b>0.6833</b>	<b>10,801.55 59</b>

**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	3.4963	32.4179	36.3100	0.1047	7.8141	1.3364	9.0443	3.9792	1.2295	5.1110	0.0000	10,579.19 99	10,579.19 99	1.9484	0.6833	10,801.55 59
2025	92.7524	21.0523	34.8839	0.1026	5.6551	0.5908	6.2459	1.5312	0.5559	2.0870	0.0000	10,363.59 87	10,363.59 87	0.7339	0.6628	10,579.46 36
<b>Maximum</b>	<b>92.7524</b>	<b>32.4179</b>	<b>36.3100</b>	<b>0.1047</b>	<b>7.8141</b>	<b>1.3364</b>	<b>9.0443</b>	<b>3.9792</b>	<b>1.2295</b>	<b>5.1110</b>	<b>0.0000</b>	<b>10,579.19 99</b>	<b>10,579.19 99</b>	<b>1.9484</b>	<b>0.6833</b>	<b>10,801.55 59</b>

Air Quality Study - BYD Plant, 55th St W &amp; Ave H, 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	47.10	0.00	43.95	52.79	0.00	46.12	0.00	0.00	0.00	0.00	0.00	0.00

Air Quality Study - BYD Plant, 55th St W & Ave H, 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	13.9480	5.7000e-004	0.0626	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1345	0.1345	3.5000e-004		0.1433
Energy	0.3184	2.8944	2.4313	0.0174		0.2200	0.2200		0.2200	0.2200		3,473.3280	3,473.3280	0.0666	0.0637	3,493.9682
Mobile	12.9139	13.2835	111.6248	0.2282	23.7925	0.1720	23.9645	6.3556	0.1606	6.5162		23,226.0233	23,226.0233	1.4121	1.0208	23,565.5087
<b>Total</b>	<b>27.1802</b>	<b>16.1785</b>	<b>114.1187</b>	<b>0.2456</b>	<b>23.7925</b>	<b>0.3922</b>	<b>24.1847</b>	<b>6.3556</b>	<b>0.3808</b>	<b>6.7364</b>		<b>26,699.4858</b>	<b>26,699.4858</b>	<b>1.4790</b>	<b>1.0844</b>	<b>27,059.6202</b>

**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	13.9480	5.7000e-004	0.0626	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1345	0.1345	3.5000e-004		0.1433
Energy	0.3184	2.8944	2.4313	0.0174		0.2200	0.2200		0.2200	0.2200		3,473.3280	3,473.3280	0.0666	0.0637	3,493.9682
Mobile	12.9139	13.2835	111.6248	0.2282	23.7925	0.1720	23.9645	6.3556	0.1606	6.5162		23,226.0233	23,226.0233	1.4121	1.0208	23,565.5087
<b>Total</b>	<b>27.1802</b>	<b>16.1785</b>	<b>114.1187</b>	<b>0.2456</b>	<b>23.7925</b>	<b>0.3922</b>	<b>24.1847</b>	<b>6.3556</b>	<b>0.3808</b>	<b>6.7364</b>		<b>26,699.4858</b>	<b>26,699.4858</b>	<b>1.4790</b>	<b>1.0844</b>	<b>27,059.6202</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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	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	1/1/2024	1/26/2024	5	20	
2	Grading	Grading	1/27/2024	3/29/2024	5	45	
3	Building Construction	Building Construction	3/30/2024	2/24/2025	5	236	
4	Paving	Paving	2/25/2025	4/14/2025	5	35	
5	Architectural Coating	Architectural Coating	4/15/2025	6/2/2025	5	35	

**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 14.01**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 900,000; Non-Residential Outdoor: 300,000; Striped Parking Area: 36,601 (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	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

Grading	Tractors/Loaders/Backhoes	2	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	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
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	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	521.00	203.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	104.00	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 - BYD Plant, 55th St W & Ave H, 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		3,688.010 0	3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2294</b>	<b>20.8864</b>	<b>10.1025</b>	<b>1.1310</b>	<b>11.2335</b>		<b>3,688.010 0</b>	<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**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
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	0.0617	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
<b>Total</b>	<b>0.0617</b>	<b>0.0368</b>	<b>0.5903</b>	<b>1.3800e-003</b>	<b>0.1479</b>	<b>8.6000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.9000e-004</b>	<b>0.0400</b>		<b>139.1677</b>	<b>139.1677</b>	<b>4.2200e-003</b>	<b>3.7300e-003</b>	<b>140.3837</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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	3,688.010 0	3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>7.6662</b>	<b>1.2294</b>	<b>8.8956</b>	<b>3.9400</b>	<b>1.1310</b>	<b>5.0710</b>	<b>0.0000</b>	<b>3,688.010 0</b>	<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**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	0.0617	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
<b>Total</b>	<b>0.0617</b>	<b>0.0368</b>	<b>0.5903</b>	<b>1.3800e-003</b>	<b>0.1479</b>	<b>8.6000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.9000e-004</b>	<b>0.0400</b>		<b>139.1677</b>	<b>139.1677</b>	<b>4.2200e-003</b>	<b>3.7300e-003</b>	<b>140.3837</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.3354</b>	<b>10.5390</b>	<b>3.6538</b>	<b>1.2286</b>	<b>4.8823</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

**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
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	0.0686	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
<b>Total</b>	<b>0.0686</b>	<b>0.0409</b>	<b>0.6559</b>	<b>1.5300e-003</b>	<b>0.1643</b>	<b>9.5000e-004</b>	<b>0.1653</b>	<b>0.0436</b>	<b>8.8000e-004</b>	<b>0.0445</b>		<b>154.6307</b>	<b>154.6307</b>	<b>4.6900e-003</b>	<b>4.1400e-003</b>	<b>155.9818</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>3.5894</b>	<b>1.3354</b>	<b>4.9248</b>	<b>1.4250</b>	<b>1.2286</b>	<b>2.6535</b>	<b>0.0000</b>	<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

**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	0.0686	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
<b>Total</b>	<b>0.0686</b>	<b>0.0409</b>	<b>0.6559</b>	<b>1.5300e-003</b>	<b>0.1643</b>	<b>9.5000e-004</b>	<b>0.1653</b>	<b>0.0436</b>	<b>8.8000e-004</b>	<b>0.0445</b>		<b>154.6307</b>	<b>154.6307</b>	<b>4.6900e-003</b>	<b>4.1400e-003</b>	<b>155.9818</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**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
Vendor	0.2379	7.6682	3.0570	0.0379	1.3752	0.0397	1.4149	0.3959	0.0379	0.4339		3,995.3708	3,995.3708	0.0232	0.5754	4,167.4212
Worker	1.7869	1.0661	17.0861	0.0399	4.2799	0.0249	4.3048	1.1352	0.0229	1.1581		4,028.1303	4,028.1303	0.1222	0.1079	4,063.3270
<b>Total</b>	<b>2.0247</b>	<b>8.7343</b>	<b>20.1431</b>	<b>0.0777</b>	<b>5.6551</b>	<b>0.0645</b>	<b>5.7196</b>	<b>1.5312</b>	<b>0.0608</b>	<b>1.5920</b>		<b>8,023.5010</b>	<b>8,023.5010</b>	<b>0.1454</b>	<b>0.6833</b>	<b>8,230.7482</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**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	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**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	0.2379	7.6682	3.0570	0.0379	1.3752	0.0397	1.4149	0.3959	0.0379	0.4339		3,995.3708	3,995.3708	0.0232	0.5754	4,167.4212
Worker	1.7869	1.0661	17.0861	0.0399	4.2799	0.0249	4.3048	1.1352	0.0229	1.1581		4,028.1303	4,028.1303	0.1222	0.1079	4,063.3270
<b>Total</b>	<b>2.0247</b>	<b>8.7343</b>	<b>20.1431</b>	<b>0.0777</b>	<b>5.6551</b>	<b>0.0645</b>	<b>5.7196</b>	<b>1.5312</b>	<b>0.0608</b>	<b>1.5920</b>		<b>8,023.5010</b>	<b>8,023.5010</b>	<b>0.1454</b>	<b>0.6833</b>	<b>8,230.7482</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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 - 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**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
Vendor	0.2341	7.6272	3.0078	0.0371	1.3752	0.0396	1.4148	0.3959	0.0378	0.4338		3,914.174 3	3,914.174 3	0.0226	0.5624	4,082.336 9
Worker	1.6617	0.9554	15.7915	0.0385	4.2799	0.0237	4.3036	1.1352	0.0218	1.1570		3,892.950 0	3,892.950 0	0.1103	0.1004	3,925.628 6
<b>Total</b>	<b>1.8957</b>	<b>8.5826</b>	<b>18.7992</b>	<b>0.0756</b>	<b>5.6551</b>	<b>0.0632</b>	<b>5.7183</b>	<b>1.5312</b>	<b>0.0596</b>	<b>1.5908</b>		<b>7,807.124 3</b>	<b>7,807.124 3</b>	<b>0.1329</b>	<b>0.6628</b>	<b>8,007.965 5</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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 - 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

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	0.2341	7.6272	3.0078	0.0371	1.3752	0.0396	1.4148	0.3959	0.0378	0.4338		3,914.174 3	3,914.174 3	0.0226	0.5624	4,082.336 9
Worker	1.6617	0.9554	15.7915	0.0385	4.2799	0.0237	4.3036	1.1352	0.0218	1.1570		3,892.950 0	3,892.950 0	0.1103	0.1004	3,925.628 6
<b>Total</b>	<b>1.8957</b>	<b>8.5826</b>	<b>18.7992</b>	<b>0.0756</b>	<b>5.6551</b>	<b>0.0632</b>	<b>5.7183</b>	<b>1.5312</b>	<b>0.0596</b>	<b>1.5908</b>		<b>7,807.124 3</b>	<b>7,807.124 3</b>	<b>0.1329</b>	<b>0.6628</b>	<b>8,007.965 5</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**3.5 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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.9971					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.9123</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**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
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	0.0478	0.0275	0.4547	1.1100e-003	0.1232	6.8000e-004	0.1239	0.0327	6.3000e-004	0.0333		112.0811	112.0811	3.1800e-003	2.8900e-003	113.0219
<b>Total</b>	<b>0.0478</b>	<b>0.0275</b>	<b>0.4547</b>	<b>1.1100e-003</b>	<b>0.1232</b>	<b>6.8000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.3000e-004</b>	<b>0.0333</b>		<b>112.0811</b>	<b>112.0811</b>	<b>3.1800e-003</b>	<b>2.8900e-003</b>	<b>113.0219</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**3.5 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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.9971					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.9123</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**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	0.0478	0.0275	0.4547	1.1100e-003	0.1232	6.8000e-004	0.1239	0.0327	6.3000e-004	0.0333		112.0811	112.0811	3.1800e-003	2.8900e-003	113.0219
<b>Total</b>	<b>0.0478</b>	<b>0.0275</b>	<b>0.4547</b>	<b>1.1100e-003</b>	<b>0.1232</b>	<b>6.8000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.3000e-004</b>	<b>0.0333</b>		<b>112.0811</b>	<b>112.0811</b>	<b>3.1800e-003</b>	<b>2.8900e-003</b>	<b>113.0219</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**3.6 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	92.2499					0.0000	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
<b>Total</b>	<b>92.4207</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**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
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	0.3317	0.1907	3.1522	7.6900e-003	0.8543	4.7300e-003	0.8591	0.2266	4.3500e-003	0.2310		777.0956	777.0956	0.0220	0.0200	783.6188
<b>Total</b>	<b>0.3317</b>	<b>0.1907</b>	<b>3.1522</b>	<b>7.6900e-003</b>	<b>0.8543</b>	<b>4.7300e-003</b>	<b>0.8591</b>	<b>0.2266</b>	<b>4.3500e-003</b>	<b>0.2310</b>		<b>777.0956</b>	<b>777.0956</b>	<b>0.0220</b>	<b>0.0200</b>	<b>783.6188</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**3.6 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	92.2499					0.0000	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
<b>Total</b>	<b>92.4207</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**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	0.3317	0.1907	3.1522	7.6900e-003	0.8543	4.7300e-003	0.8591	0.2266	4.3500e-003	0.2310		777.0956	777.0956	0.0220	0.0200	783.6188
<b>Total</b>	<b>0.3317</b>	<b>0.1907</b>	<b>3.1522</b>	<b>7.6900e-003</b>	<b>0.8543</b>	<b>4.7300e-003</b>	<b>0.8591</b>	<b>0.2266</b>	<b>4.3500e-003</b>	<b>0.2310</b>		<b>777.0956</b>	<b>777.0956</b>	<b>0.0220</b>	<b>0.0200</b>	<b>783.6188</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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	12.9139	13.2835	111.6248	0.2282	23.7925	0.1720	23.9645	6.3556	0.1606	6.5162		23,226.02 33	23,226.02 33	1.4121	1.0208	23,565.50 87
Unmitigated	12.9139	13.2835	111.6248	0.2282	23.7925	0.1720	23.9645	6.3556	0.1606	6.5162		23,226.02 33	23,226.02 33	1.4121	1.0208	23,565.50 87

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	2,358.00	3,852.00	3054.00	7,797,597	7,797,597
City Park	0.00	0.00	0.00		
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		
<b>Total</b>	<b>2,358.00</b>	<b>3,852.00</b>	<b>3,054.00</b>	<b>7,797,597</b>	<b>7,797,597</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

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
General Heavy Industry	0.603377	0.051886	0.141906	0.112313	0.025216	0.007131	0.012268	0.009274	0.000704	0.000491	0.027212	0.002387	0.005833
City Park	0.603377	0.051886	0.141906	0.112313	0.025216	0.007131	0.012268	0.009274	0.000704	0.000491	0.027212	0.002387	0.005833
Other Asphalt Surfaces	0.603377	0.051886	0.141906	0.112313	0.025216	0.007131	0.012268	0.009274	0.000704	0.000491	0.027212	0.002387	0.005833
Other Non-Asphalt Surfaces	0.603377	0.051886	0.141906	0.112313	0.025216	0.007131	0.012268	0.009274	0.000704	0.000491	0.027212	0.002387	0.005833
Parking Lot	0.603377	0.051886	0.141906	0.112313	0.025216	0.007131	0.012268	0.009274	0.000704	0.000491	0.027212	0.002387	0.005833

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Air Quality Study - BYD Plant, 55th St W & Ave H, 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					
NaturalGas Mitigated	0.3184	2.8944	2.4313	0.0174		0.2200	0.2200		0.2200	0.2200		3,473.3280	3,473.3280	0.0666	0.0637	3,493.9682
NaturalGas Unmitigated	0.3184	2.8944	2.4313	0.0174		0.2200	0.2200		0.2200	0.2200		3,473.3280	3,473.3280	0.0666	0.0637	3,493.9682

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	29523.3	0.3184	2.8944	2.4313	0.0174		0.2200	0.2200		0.2200	0.2200		3,473.3280	3,473.3280	0.0666	0.0637	3,493.9682
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.3184</b>	<b>2.8944</b>	<b>2.4313</b>	<b>0.0174</b>		<b>0.2200</b>	<b>0.2200</b>		<b>0.2200</b>	<b>0.2200</b>		<b>3,473.3280</b>	<b>3,473.3280</b>	<b>0.0666</b>	<b>0.0637</b>	<b>3,493.9682</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**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
General Heavy Industry	29.5233	0.3184	2.8944	2.4313	0.0174		0.2200	0.2200		0.2200	0.2200		3,473.3280	3,473.3280	0.0666	0.0637	3,493.9682
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.3184</b>	<b>2.8944</b>	<b>2.4313</b>	<b>0.0174</b>		<b>0.2200</b>	<b>0.2200</b>		<b>0.2200</b>	<b>0.2200</b>		<b>3,473.3280</b>	<b>3,473.3280</b>	<b>0.0666</b>	<b>0.0637</b>	<b>3,493.9682</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Air Quality Study - BYD Plant, 55th St W & Ave H, 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	13.9480	5.7000e-004	0.0626	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1345	0.1345	3.5000e-004		0.1433
Unmitigated	13.9480	5.7000e-004	0.0626	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1345	0.1345	3.5000e-004		0.1433

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.8846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.0576					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.7600e-003	5.7000e-004	0.0626	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1345	0.1345	3.5000e-004		0.1433
<b>Total</b>	<b>13.9480</b>	<b>5.7000e-004</b>	<b>0.0626</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>0.1345</b>	<b>0.1345</b>	<b>3.5000e-004</b>		<b>0.1433</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

**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	0.8846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.0576					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.7600e-003	5.7000e-004	0.0626	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1345	0.1345	3.5000e-004		0.1433
<b>Total</b>	<b>13.9480</b>	<b>5.7000e-004</b>	<b>0.0626</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>0.1345</b>	<b>0.1345</b>	<b>3.5000e-004</b>		<b>0.1433</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Air Quality Study - BYD Plant, 55th St W & Ave H, 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**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

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

**Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA  
Antelope Valley APCD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	600.00	1000sqft	13.77	600,000.00	0
City Park	0.69	Acre	0.69	30,000.00	0
Other Asphalt Surfaces	0.92	Acre	0.92	40,000.00	0
Other Non-Asphalt Surfaces	0.69	Acre	0.69	30,000.00	0
Parking Lot	12.40	Acre	12.40	540,013.32	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9	<b>Operational Year</b>	2026		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Information provided by client.

Construction Phase - Schedule adjusted according to start and end date 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.

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

## Air Quality Study - BYD Plant, 55th St W &amp; Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

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

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	440.00	236.00
tblConstructionPhase	PhaseEndDate	12/5/2025	2/24/2025
tblConstructionPhase	PhaseEndDate	1/23/2026	4/14/2025
tblConstructionPhase	PhaseEndDate	3/13/2026	6/2/2025
tblConstructionPhase	PhaseStartDate	12/6/2025	2/25/2025
tblConstructionPhase	PhaseStartDate	1/24/2026	4/15/2025
tblLandUse	LandUseSquareFeet	30,012.84	30,000.00
tblLandUse	LandUseSquareFeet	39,988.08	40,000.00
tblLandUse	LandUseSquareFeet	30,012.84	30,000.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
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

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

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

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**

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Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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	3.2843	32.4203	33.1183	0.1005	19.8049	1.3364	21.0351	10.1417	1.2295	11.2735	0.0000	10,155.45 31	10,155.45 31	1.9484	0.6894	10,379.65 24
2025	92.7171	21.5667	31.9677	0.0985	5.6551	0.5910	6.2461	1.5312	0.5561	2.0872	0.0000	9,955.293 2	9,955.293 2	0.7348	0.6686	10,172.90 24
<b>Maximum</b>	<b>92.7171</b>	<b>32.4203</b>	<b>33.1183</b>	<b>0.1005</b>	<b>19.8049</b>	<b>1.3364</b>	<b>21.0351</b>	<b>10.1417</b>	<b>1.2295</b>	<b>11.2735</b>	<b>0.0000</b>	<b>10,155.45 31</b>	<b>10,155.45 31</b>	<b>1.9484</b>	<b>0.6894</b>	<b>10,379.65 24</b>

**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	3.2843	32.4203	33.1183	0.1005	7.8141	1.3364	9.0443	3.9792	1.2295	5.1110	0.0000	10,155.45 31	10,155.45 31	1.9484	0.6894	10,379.65 24
2025	92.7171	21.5667	31.9677	0.0985	5.6551	0.5910	6.2461	1.5312	0.5561	2.0872	0.0000	9,955.293 2	9,955.293 2	0.7348	0.6686	10,172.90 24
<b>Maximum</b>	<b>92.7171</b>	<b>32.4203</b>	<b>33.1183</b>	<b>0.1005</b>	<b>7.8141</b>	<b>1.3364</b>	<b>9.0443</b>	<b>3.9792</b>	<b>1.2295</b>	<b>5.1110</b>	<b>0.0000</b>	<b>10,155.45 31</b>	<b>10,155.45 31</b>	<b>1.9484</b>	<b>0.6894</b>	<b>10,379.65 24</b>

Air Quality Study - BYD Plant, 55th St W &amp; Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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	47.10	0.00	43.95	52.79	0.00	46.12	0.00	0.00	0.00	0.00	0.00	0.00

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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	13.9480	5.7000e-004	0.0626	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1345	0.1345	3.5000e-004		0.1433
Energy	0.3184	2.8944	2.4313	0.0174		0.2200	0.2200		0.2200	0.2200		3,473.3280	3,473.3280	0.0666	0.0637	3,493.9682
Mobile	10.7812	14.1802	99.2705	0.2084	23.7925	0.1721	23.9646	6.3556	0.1607	6.5163		21,221.4255	21,221.4255	1.4556	1.0528	21,571.5536
<b>Total</b>	<b>25.0476</b>	<b>17.0752</b>	<b>101.7644</b>	<b>0.2258</b>	<b>23.7925</b>	<b>0.3923</b>	<b>24.1848</b>	<b>6.3556</b>	<b>0.3809</b>	<b>6.7365</b>		<b>24,694.8880</b>	<b>24,694.8880</b>	<b>1.5225</b>	<b>1.1165</b>	<b>25,065.6650</b>

**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	13.9480	5.7000e-004	0.0626	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1345	0.1345	3.5000e-004		0.1433
Energy	0.3184	2.8944	2.4313	0.0174		0.2200	0.2200		0.2200	0.2200		3,473.3280	3,473.3280	0.0666	0.0637	3,493.9682
Mobile	10.7812	14.1802	99.2705	0.2084	23.7925	0.1721	23.9646	6.3556	0.1607	6.5163		21,221.4255	21,221.4255	1.4556	1.0528	21,571.5536
<b>Total</b>	<b>25.0476</b>	<b>17.0752</b>	<b>101.7644</b>	<b>0.2258</b>	<b>23.7925</b>	<b>0.3923</b>	<b>24.1848</b>	<b>6.3556</b>	<b>0.3809</b>	<b>6.7365</b>		<b>24,694.8880</b>	<b>24,694.8880</b>	<b>1.5225</b>	<b>1.1165</b>	<b>25,065.6650</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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	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	1/1/2024	1/26/2024	5	20	
2	Grading	Grading	1/27/2024	3/29/2024	5	45	
3	Building Construction	Building Construction	3/30/2024	2/24/2025	5	236	
4	Paving	Paving	2/25/2025	4/14/2025	5	35	
5	Architectural Coating	Architectural Coating	4/15/2025	6/2/2025	5	35	

**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 14.01**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 900,000; Non-Residential Outdoor: 300,000; Striped Parking Area: 36,601 (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	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

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

Grading	Tractors/Loaders/Backhoes	2	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	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
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	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	521.00	203.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	104.00	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 - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2294</b>	<b>20.8864</b>	<b>10.1025</b>	<b>1.1310</b>	<b>11.2335</b>		<b>3,688.0100</b>	<b>3,688.0100</b>	<b>1.1928</b>		<b>3,717.8294</b>

**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
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	0.0551	0.0390	0.4770	1.2300e-003	0.1479	8.6000e-004	0.1487	0.0392	7.9000e-004	0.0400		124.1533	124.1533	4.2800e-003	3.8600e-003	125.4119
<b>Total</b>	<b>0.0551</b>	<b>0.0390</b>	<b>0.4770</b>	<b>1.2300e-003</b>	<b>0.1479</b>	<b>8.6000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.9000e-004</b>	<b>0.0400</b>		<b>124.1533</b>	<b>124.1533</b>	<b>4.2800e-003</b>	<b>3.8600e-003</b>	<b>125.4119</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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	3,688.010 0	3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>7.6662</b>	<b>1.2294</b>	<b>8.8956</b>	<b>3.9400</b>	<b>1.1310</b>	<b>5.0710</b>	<b>0.0000</b>	<b>3,688.010 0</b>	<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</b>

**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	0.0551	0.0390	0.4770	1.2300e-003	0.1479	8.6000e-004	0.1487	0.0392	7.9000e-004	0.0400		124.1533	124.1533	4.2800e-003	3.8600e-003	125.4119
<b>Total</b>	<b>0.0551</b>	<b>0.0390</b>	<b>0.4770</b>	<b>1.2300e-003</b>	<b>0.1479</b>	<b>8.6000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.9000e-004</b>	<b>0.0400</b>		<b>124.1533</b>	<b>124.1533</b>	<b>4.2800e-003</b>	<b>3.8600e-003</b>	<b>125.4119</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.3354</b>	<b>10.5390</b>	<b>3.6538</b>	<b>1.2286</b>	<b>4.8823</b>		<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

**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
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	0.0612	0.0433	0.5300	1.3600e-003	0.1643	9.5000e-004	0.1653	0.0436	8.8000e-004	0.0445		137.9482	137.9482	4.7600e-003	4.2900e-003	139.3466
<b>Total</b>	<b>0.0612</b>	<b>0.0433</b>	<b>0.5300</b>	<b>1.3600e-003</b>	<b>0.1643</b>	<b>9.5000e-004</b>	<b>0.1653</b>	<b>0.0436</b>	<b>8.8000e-004</b>	<b>0.0445</b>		<b>137.9482</b>	<b>137.9482</b>	<b>4.7600e-003</b>	<b>4.2900e-003</b>	<b>139.3466</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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					3.5894	0.0000	3.5894	1.4250	0.0000	1.4250			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
<b>Total</b>	<b>3.2181</b>	<b>32.3770</b>	<b>27.7228</b>	<b>0.0621</b>	<b>3.5894</b>	<b>1.3354</b>	<b>4.9248</b>	<b>1.4250</b>	<b>1.2286</b>	<b>2.6535</b>	<b>0.0000</b>	<b>6,009.7487</b>	<b>6,009.7487</b>	<b>1.9437</b>		<b>6,058.3405</b>

**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	0.0612	0.0433	0.5300	1.3600e-003	0.1643	9.5000e-004	0.1653	0.0436	8.8000e-004	0.0445		137.9482	137.9482	4.7600e-003	4.2900e-003	139.3466
<b>Total</b>	<b>0.0612</b>	<b>0.0433</b>	<b>0.5300</b>	<b>1.3600e-003</b>	<b>0.1643</b>	<b>9.5000e-004</b>	<b>0.1653</b>	<b>0.0436</b>	<b>8.8000e-004</b>	<b>0.0445</b>		<b>137.9482</b>	<b>137.9482</b>	<b>4.7600e-003</b>	<b>4.2900e-003</b>	<b>139.3466</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**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
Vendor	0.2182	8.1298	3.1462	0.0380	1.3752	0.0399	1.4151	0.3959	0.0381	0.4341		4,006.2050	4,006.2050	0.0223	0.5775	4,178.8669
Worker	1.5946	1.1276	13.8053	0.0356	4.2799	0.0249	4.3048	1.1352	0.0229	1.1581		3,593.5492	3,593.5492	0.1239	0.1119	3,629.9778
<b>Total</b>	<b>1.8127</b>	<b>9.2574</b>	<b>16.9515</b>	<b>0.0735</b>	<b>5.6551</b>	<b>0.0647</b>	<b>5.7198</b>	<b>1.5312</b>	<b>0.0610</b>	<b>1.5922</b>		<b>7,599.7542</b>	<b>7,599.7542</b>	<b>0.1461</b>	<b>0.6894</b>	<b>7,808.8447</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**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	0.2182	8.1298	3.1462	0.0380	1.3752	0.0399	1.4151	0.3959	0.0381	0.4341		4,006.2050	4,006.2050	0.0223	0.5775	4,178.8669
Worker	1.5946	1.1276	13.8053	0.0356	4.2799	0.0249	4.3048	1.1352	0.0229	1.1581		3,593.5492	3,593.5492	0.1239	0.1119	3,629.9778
<b>Total</b>	<b>1.8127</b>	<b>9.2574</b>	<b>16.9515</b>	<b>0.0735</b>	<b>5.6551</b>	<b>0.0647</b>	<b>5.7198</b>	<b>1.5312</b>	<b>0.0610</b>	<b>1.5922</b>		<b>7,599.7542</b>	<b>7,599.7542</b>	<b>0.1461</b>	<b>0.6894</b>	<b>7,808.8447</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

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

**3.4 Building Construction - 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**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
Vendor	0.2143	8.0867	3.0972	0.0372	1.3752	0.0398	1.4150	0.3959	0.0380	0.4339		3,924.874 6	3,924.874 6	0.0217	0.5645	4,093.632 4
Worker	1.4845	1.0104	12.7859	0.0344	4.2799	0.0237	4.3036	1.1352	0.0218	1.1570		3,473.944 3	3,473.944 3	0.1121	0.1041	3,507.772 0
<b>Total</b>	<b>1.6988</b>	<b>9.0971</b>	<b>15.8831</b>	<b>0.0716</b>	<b>5.6551</b>	<b>0.0634</b>	<b>5.7185</b>	<b>1.5312</b>	<b>0.0598</b>	<b>1.5910</b>		<b>7,398.818 9</b>	<b>7,398.818 9</b>	<b>0.1339</b>	<b>0.6686</b>	<b>7,601.404 4</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

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

**3.4 Building Construction - 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**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	0.2143	8.0867	3.0972	0.0372	1.3752	0.0398	1.4150	0.3959	0.0380	0.4339		3,924.874 6	3,924.874 6	0.0217	0.5645	4,093.632 4
Worker	1.4845	1.0104	12.7859	0.0344	4.2799	0.0237	4.3036	1.1352	0.0218	1.1570		3,473.944 3	3,473.944 3	0.1121	0.1041	3,507.772 0
<b>Total</b>	<b>1.6988</b>	<b>9.0971</b>	<b>15.8831</b>	<b>0.0716</b>	<b>5.6551</b>	<b>0.0634</b>	<b>5.7185</b>	<b>1.5312</b>	<b>0.0598</b>	<b>1.5910</b>		<b>7,398.818 9</b>	<b>7,398.818 9</b>	<b>0.1339</b>	<b>0.6686</b>	<b>7,601.404 4</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.9971					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.9123</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>		<b>2,206.7452</b>	<b>2,206.7452</b>	<b>0.7137</b>		<b>2,224.5878</b>

**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
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	0.0427	0.0291	0.3681	9.9000e-004	0.1232	6.8000e-004	0.1239	0.0327	6.3000e-004	0.0333		100.0176	100.0176	3.2300e-003	3.0000e-003	100.9915
<b>Total</b>	<b>0.0427</b>	<b>0.0291</b>	<b>0.3681</b>	<b>9.9000e-004</b>	<b>0.1232</b>	<b>6.8000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.3000e-004</b>	<b>0.0333</b>		<b>100.0176</b>	<b>100.0176</b>	<b>3.2300e-003</b>	<b>3.0000e-003</b>	<b>100.9915</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.9971					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.9123</b>	<b>8.5816</b>	<b>14.5780</b>	<b>0.0228</b>		<b>0.4185</b>	<b>0.4185</b>		<b>0.3850</b>	<b>0.3850</b>	<b>0.0000</b>	<b>2,206.745 2</b>	<b>2,206.745 2</b>	<b>0.7137</b>		<b>2,224.587 8</b>

**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	0.0427	0.0291	0.3681	9.9000e-004	0.1232	6.8000e-004	0.1239	0.0327	6.3000e-004	0.0333		100.0176	100.0176	3.2300e-003	3.0000e-003	100.9915
<b>Total</b>	<b>0.0427</b>	<b>0.0291</b>	<b>0.3681</b>	<b>9.9000e-004</b>	<b>0.1232</b>	<b>6.8000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.3000e-004</b>	<b>0.0333</b>		<b>100.0176</b>	<b>100.0176</b>	<b>3.2300e-003</b>	<b>3.0000e-003</b>	<b>100.9915</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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	92.2499					0.0000	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
<b>Total</b>	<b>92.4207</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**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
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	0.2963	0.2017	2.5523	6.8600e-003	0.8543	4.7300e-003	0.8591	0.2266	4.3500e-003	0.2310		693.4553	693.4553	0.0224	0.0208	700.2078
<b>Total</b>	<b>0.2963</b>	<b>0.2017</b>	<b>2.5523</b>	<b>6.8600e-003</b>	<b>0.8543</b>	<b>4.7300e-003</b>	<b>0.8591</b>	<b>0.2266</b>	<b>4.3500e-003</b>	<b>0.2310</b>		<b>693.4553</b>	<b>693.4553</b>	<b>0.0224</b>	<b>0.0208</b>	<b>700.2078</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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	92.2499					0.0000	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
<b>Total</b>	<b>92.4207</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**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	0.2963	0.2017	2.5523	6.8600e-003	0.8543	4.7300e-003	0.8591	0.2266	4.3500e-003	0.2310		693.4553	693.4553	0.0224	0.0208	700.2078
<b>Total</b>	<b>0.2963</b>	<b>0.2017</b>	<b>2.5523</b>	<b>6.8600e-003</b>	<b>0.8543</b>	<b>4.7300e-003</b>	<b>0.8591</b>	<b>0.2266</b>	<b>4.3500e-003</b>	<b>0.2310</b>		<b>693.4553</b>	<b>693.4553</b>	<b>0.0224</b>	<b>0.0208</b>	<b>700.2078</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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	10.7812	14.1802	99.2705	0.2084	23.7925	0.1721	23.9646	6.3556	0.1607	6.5163		21,221.4255	21,221.4255	1.4556	1.0528	21,571.5536
Unmitigated	10.7812	14.1802	99.2705	0.2084	23.7925	0.1721	23.9646	6.3556	0.1607	6.5163		21,221.4255	21,221.4255	1.4556	1.0528	21,571.5536

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	2,358.00	3,852.00	3054.00	7,797,597	7,797,597
City Park	0.00	0.00	0.00		
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		
<b>Total</b>	<b>2,358.00</b>	<b>3,852.00</b>	<b>3,054.00</b>	<b>7,797,597</b>	<b>7,797,597</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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
General Heavy Industry	0.603377	0.051886	0.141906	0.112313	0.025216	0.007131	0.012268	0.009274	0.000704	0.000491	0.027212	0.002387	0.005833
City Park	0.603377	0.051886	0.141906	0.112313	0.025216	0.007131	0.012268	0.009274	0.000704	0.000491	0.027212	0.002387	0.005833
Other Asphalt Surfaces	0.603377	0.051886	0.141906	0.112313	0.025216	0.007131	0.012268	0.009274	0.000704	0.000491	0.027212	0.002387	0.005833
Other Non-Asphalt Surfaces	0.603377	0.051886	0.141906	0.112313	0.025216	0.007131	0.012268	0.009274	0.000704	0.000491	0.027212	0.002387	0.005833
Parking Lot	0.603377	0.051886	0.141906	0.112313	0.025216	0.007131	0.012268	0.009274	0.000704	0.000491	0.027212	0.002387	0.005833

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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	0.3184	2.8944	2.4313	0.0174		0.2200	0.2200		0.2200	0.2200		3,473.3280	3,473.3280	0.0666	0.0637	3,493.9682
NaturalGas Unmitigated	0.3184	2.8944	2.4313	0.0174		0.2200	0.2200		0.2200	0.2200		3,473.3280	3,473.3280	0.0666	0.0637	3,493.9682

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Heavy Industry	29523.3	0.3184	2.8944	2.4313	0.0174		0.2200	0.2200		0.2200	0.2200		3,473.3280	3,473.3280	0.0666	0.0637	3,493.9682
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.3184</b>	<b>2.8944</b>	<b>2.4313</b>	<b>0.0174</b>		<b>0.2200</b>	<b>0.2200</b>		<b>0.2200</b>	<b>0.2200</b>		<b>3,473.3280</b>	<b>3,473.3280</b>	<b>0.0666</b>	<b>0.0637</b>	<b>3,493.9682</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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
General Heavy Industry	29.5233	0.3184	2.8944	2.4313	0.0174		0.2200	0.2200		0.2200	0.2200		3,473.3280	3,473.3280	0.0666	0.0637	3,493.9682
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.3184</b>	<b>2.8944</b>	<b>2.4313</b>	<b>0.0174</b>		<b>0.2200</b>	<b>0.2200</b>		<b>0.2200</b>	<b>0.2200</b>		<b>3,473.3280</b>	<b>3,473.3280</b>	<b>0.0666</b>	<b>0.0637</b>	<b>3,493.9682</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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	13.9480	5.7000e-004	0.0626	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1345	0.1345	3.5000e-004		0.1433
Unmitigated	13.9480	5.7000e-004	0.0626	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1345	0.1345	3.5000e-004		0.1433

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.8846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.0576					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.7600e-003	5.7000e-004	0.0626	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1345	0.1345	3.5000e-004		0.1433
<b>Total</b>	<b>13.9480</b>	<b>5.7000e-004</b>	<b>0.0626</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>0.1345</b>	<b>0.1345</b>	<b>3.5000e-004</b>		<b>0.1433</b>

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

**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	0.8846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.0576					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.7600e-003	5.7000e-004	0.0626	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1345	0.1345	3.5000e-004		0.1433
<b>Total</b>	<b>13.9480</b>	<b>5.7000e-004</b>	<b>0.0626</b>	<b>0.0000</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>2.2000e-004</b>	<b>2.2000e-004</b>		<b>0.1345</b>	<b>0.1345</b>	<b>3.5000e-004</b>		<b>0.1433</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Air Quality Study - BYD Plant, 55th St W & Ave H, Lancaster, CA - Antelope Valley APCD Air District, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**ATTACHMENT C – TAC Emission and Prioritization Score Calculations**

## HARP Facility Prioritization Report

HARP EIM Version: 2.1.6

Reporting Year: 2021  
 Project Path: C:\mshatch.com\MSHC - Documents\Projects\BYD\2021 CEIR\HARP  
 Project Database: C:\mshatch.com\MSHC - Documents\Projects\BYD\2021 CEIR\HARP\BYD\_CEIR\_CY2021.mdb  
 CEIDARS Utility Database: C:\HARP2\Tables\CEIDARSTables042023.mdb  
 HARP Health Talbe: HEALTH202212  
 Sorting Order: DIS, AB, CO, TS, FACID, DEV, PROID, POLABBREV  
 Date Created: 4/24/2023 4:45:44 PM  
 Operator:

POLLUTANT HEALTH VALUES FROM HARP HEALTH DATABASE:

POLLUTANT ID	POLLUTANT	CANCERURF (INH) (ug/m <sup>3</sup> ) <sup>-1</sup>	ACUTEREL ug/m <sup>3</sup>	CHRONICREL (INH) ug/m <sup>3</sup>
95636	1,2,4TriMeBenze	N/A	N/A	N/A
91576	2MeNaphthalene	N/A	N/A	N/A
56495	3-MeCholanthren	6.30E-03	N/A	N/A
57976	7,12-DB[a]anthr	7.10E-02	N/A	N/A
83329	Acenaphthene	N/A	N/A	N/A
208968	Acenaphthylene	N/A	N/A	N/A
120127	Anthracene	N/A	N/A	N/A
7440382	Arsenic	3.30E-03	2.00E-01	1.50E-02
56553	B[a]anthracene	1.10E-04	N/A	N/A
50328	B[a]P	1.10E-03	N/A	N/A
205992	B[b]fluoranthen	1.10E-04	N/A	N/A
191242	B[g,h,i]perylene	N/A	N/A	N/A
205823	B[j]fluoranthen	1.10E-04	N/A	N/A
7440393	Barium	N/A	N/A	N/A
71432	Benzene	2.90E-05	2.70E+01	3.00E+00
7440417	Beryllium	2.40E-03	N/A	7.00E-03
7440439	Cadmium	4.20E-03	N/A	2.00E-02
74828	CH4	N/A	N/A	N/A
7440473	Chromium	N/A	N/A	N/A
218019	Chrysene	1.10E-05	N/A	N/A
42101	CO	N/A	N/A	N/A
7440484	Cobalt	7.70E-03	N/A	N/A
7440508	Copper	N/A	1.00E+02	N/A
98828	Cumene	N/A	N/A	N/A
80159	Cumene HydPerOx	N/A	N/A	N/A
53703	D[a,h]anthracen	1.20E-03	N/A	N/A
25321226	DiClBenzenes	N/A	N/A	N/A
111762	EGBE	N/A	4.70E+03	8.20E+01
100414	Ethyl Benzene	2.50E-06	N/A	2.00E+03
107211	Ethylene Glycol	N/A	N/A	4.00E+02
206440	Fluoranthene	N/A	N/A	N/A
86737	Fluorene	N/A	N/A	N/A
50000	Formaldehyde	6.00E-06	5.50E+01	9.00E+00
110543	Hexane	N/A	N/A	7.00E+03
193395	In[1,2,3-cd]pyr	1.10E-04	N/A	N/A
67630	Isopropyl Alcoh	N/A	3.20E+03	7.00E+03
7439921	Lead	1.20E-05	N/A	N/A
7439965	Manganese	N/A	N/A	9.00E-02
78933	MEK	N/A	1.30E+04	N/A
7439976	Mercury	N/A	6.00E-01	3.00E-02
67561	Methanol	N/A	2.80E+04	4.00E+03
108101	MIBK	N/A	N/A	N/A
91203	Naphthalene	3.40E-05	N/A	9.00E+00

71363	n-Butyl Alcohol	N/A	N/A	N/A
7440020	Nickel	2.60E-04	2.00E-01	1.40E-02
42603	NOX	N/A	N/A	N/A
108656	PGMEA	N/A	N/A	N/A
85018	Phenanthrene	N/A	N/A	N/A
11101	PM	N/A	N/A	N/A
129000	Pyrene	N/A	N/A	N/A
16113	ROG	N/A	N/A	N/A
7782492	Selenium	N/A	N/A	2.00E+01
42401	SOX	N/A	N/A	N/A
100425	Styrene	N/A	2.10E+04	9.00E+02
43101	TOG	N/A	N/A	N/A
108883	Toluene	N/A	5.00E+03	4.20E+02
7440622	Vanadium	N/A	3.00E+01	N/A
43104	VOC	N/A	N/A	N/A
1330207	Xylenes	N/A	2.20E+04	7.00E+02
7440666	Zinc	N/A	N/A	N/A
1314132	Zinc Oxide	N/A	N/A	N/A

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PRIORITIZATION SCORE SUMMARY:

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Facility Name  
Proximity Method  
Optional Factors

FACID	CO AB	DIS	DEVICE	PROID	Emission and Potency Procedure				Dispersion Adjustment Procedure				Highest Score
					Cancer	Acute	Chronic	NonCancer	Cancer	Acute	Chronic	NonCancer	

BYD

Proximity Method: Proximity manually edited by user as 50

Annual Operating Hours		8760										
1945	19 MD AV	2.46	1.68	6.62E-02	1.68	2.45	1.68	6.62E-02	1.68	2.46		
Device ID	46320	0.21	1.10E-02	2.02E-03	1.11E-02	0.21	1.10E-02	2.02E-03	1.11E-02			
Process ID	2	1.69E-03	1.48E-04	1.18E-05	1.49E-04	1.69E-03	1.48E-04	1.18E-05	1.49E-04			
Process ID	3	1.74E-03	2.99E-05	8.67E-06	3.07E-05	1.73E-03	2.99E-05	8.67E-06	3.07E-05			
Process ID	5	2.44E-02	3.27E-03	4.45E-04	3.28E-03	2.43E-02	3.27E-03	4.45E-04	3.28E-03			
Process ID	6	0.19	7.52E-03	1.56E-03	7.60E-03	0.18	7.52E-03	1.56E-03	7.60E-03			
Device ID	90001	0.00E+00	0.27	4.39E-03	0.27	0.00E+00	0.27	4.39E-03	0.27			
Process ID	1	0.00E+00	0.27	4.39E-03	0.27	0.00E+00	0.27	4.39E-03	0.27			
Device ID	90002	0.00E+00	6.66E-02	2.98E-03	6.66E-02	0.00E+00	6.66E-02	2.98E-03	6.66E-02			
Process ID	1	0.00E+00	6.66E-02	2.98E-03	6.66E-02	0.00E+00	6.66E-02	2.98E-03	6.66E-02			
Device ID	90003	0.00E+00	2.61E-02	4.27E-04	2.61E-02	0.00E+00	2.61E-02	4.27E-04	2.61E-02			
Process ID	1	0.00E+00	2.61E-02	4.27E-04	2.61E-02	0.00E+00	2.61E-02	4.27E-04	2.61E-02			
Device ID	212645	0.16	0.26	6.78E-03	0.26	0.16	0.26	6.78E-03	0.26			
Process ID	1	0.16	0.26	6.78E-03	0.26	0.16	0.26	6.78E-03	0.26			
Device ID	212646	4.96E-02	0.26	2.05E-03	0.26	4.95E-02	0.26	2.05E-03	0.26			
Process ID	1	4.96E-02	0.26	2.05E-03	0.26	4.95E-02	0.26	2.05E-03	0.26			
Device ID	212647	0.35	0.26	1.47E-02	0.26	0.35	0.26	1.47E-02	0.26			
Process ID	1	0.35	0.26	1.47E-02	0.26	0.35	0.26	1.47E-02	0.26			
Device ID	212648	0.29	0.26	1.18E-02	0.26	0.29	0.26	1.18E-02	0.26			
Process ID	1	0.29	0.26	1.18E-02	0.26	0.29	0.26	1.18E-02	0.26			
Device ID	412037	0.39	0.11	1.40E-02	0.11	0.38	0.11	1.40E-02	0.11			
Process ID	2	1.58E-03	5.16E-05	1.09E-05	5.23E-05	1.57E-03	5.16E-05	1.09E-05	5.23E-05			
Process ID	3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Process ID	5	8.08E-02	3.12E-03	9.54E-04	3.16E-03	8.06E-02	3.12E-03	9.54E-04	3.16E-03			
Process ID	6	4.27E-02	5.79E-03	2.27E-03	5.81E-03	4.26E-02	5.79E-03	2.27E-03	5.81E-03			
Process ID	7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00			
Process ID	8	0.26	9.79E-02	1.08E-02	9.92E-02	0.26	9.79E-02	1.08E-02	9.92E-02			
Device ID	412045	6.95E-03	0.10	2.59E-04	0.10	6.93E-03	0.10	2.59E-04	0.10			
Process ID	5	1.23E-03	5.44E-04	6.79E-06	5.45E-04	1.23E-03	5.44E-04	6.79E-06	5.45E-04			
Process ID	6	0.00E+00	1.87E-03	1.60E-05	1.87E-03	0.00E+00	1.87E-03	1.60E-05	1.87E-03			
Process ID	8	5.72E-03	9.79E-02	2.36E-04	9.79E-02	5.71E-03	9.79E-02	2.36E-04	9.79E-02			
Device ID	412633	0.15	8.35E-03	2.99E-03	8.42E-03	0.15	8.35E-03	2.99E-03	8.42E-03			
Process ID	2	2.96E-03	1.01E-04	2.04E-05	1.02E-04	2.95E-03	1.01E-04	2.04E-05	1.02E-04			

Process ID	3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Process ID	5	5.11E-02	2.01E-03	5.96E-04	2.03E-03	5.10E-02	2.01E-03	5.96E-04	2.03E-03	5.10E-02	2.03E-03
Process ID	6	9.29E-02	6.24E-03	2.37E-03	6.28E-03	9.27E-02	6.24E-03	2.37E-03	6.28E-03	9.27E-02	6.28E-03
Process ID	7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Device ID	412635	8.97E-02	1.61E-02	5.59E-04	1.61E-02	8.95E-02	1.61E-02	5.59E-04	1.61E-02	8.95E-02	1.61E-02
Process ID	2	5.28E-02	1.47E-02	3.74E-04	1.48E-02	5.27E-02	1.47E-02	3.74E-04	1.48E-02	5.27E-02	1.48E-02
Process ID	3	3.54E-02	1.30E-03	1.76E-04	1.32E-03	3.53E-02	1.30E-03	1.76E-04	1.32E-03	3.53E-02	1.32E-03
Process ID	5	1.54E-03	6.33E-05	8.49E-06	6.39E-05	1.53E-03	6.33E-05	8.49E-06	6.39E-05	1.53E-03	6.39E-05
Device ID	412636	8.03E-03	4.13E-03	5.99E-05	4.13E-03	8.01E-03	4.13E-03	5.99E-05	4.13E-03	8.01E-03	4.13E-03
Process ID	2	7.33E-03	3.84E-03	5.07E-05	3.85E-03	7.31E-03	3.84E-03	5.07E-05	3.85E-03	7.31E-03	3.85E-03
Process ID	3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Process ID	5	7.01E-04	9.55E-05	3.87E-06	9.58E-05	6.99E-04	9.55E-05	3.87E-06	9.58E-05	6.99E-04	9.58E-05
Process ID	6	0.00E+00	1.91E-04	5.30E-06	1.91E-04	0.00E+00	1.91E-04	5.30E-06	1.91E-04	0.00E+00	5.30E-06
Device ID	412637	0.52	1.85E-02	2.34E-03	1.88E-02	0.52	1.85E-02	2.34E-03	1.88E-02	0.52	1.85E-02
Process ID	2	0.14	1.32E-02	1.01E-03	1.32E-02	0.14	1.32E-02	1.01E-03	1.32E-02	0.14	1.32E-02
Process ID	3	8.22E-02	1.40E-03	4.10E-04	1.43E-03	8.20E-02	1.40E-03	4.10E-04	1.43E-03	8.20E-02	1.43E-03
Process ID	5	6.36E-03	1.21E-04	3.51E-05	1.24E-04	6.34E-03	1.21E-04	3.51E-05	1.24E-04	6.34E-03	1.24E-04
Process ID	6	0.29	3.83E-03	8.87E-04	3.95E-03	0.29	3.83E-03	8.87E-04	3.95E-03	0.29	3.83E-03
Process ID	7	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Device ID	412638	0.24	8.01E-03	9.08E-04	8.12E-03	0.23	8.01E-03	9.08E-04	8.12E-03	0.23	8.01E-03
Process ID	2	2.93E-02	4.31E-03	2.08E-04	4.32E-03	2.92E-02	4.31E-03	2.08E-04	4.32E-03	2.92E-02	4.32E-03
Process ID	3	8.70E-04	1.83E-05	4.33E-06	1.87E-05	8.67E-04	1.83E-05	4.33E-06	1.87E-05	8.67E-04	1.87E-05
Process ID	5	1.73E-02	5.00E-04	1.02E-04	5.08E-04	1.73E-02	5.00E-04	1.02E-04	5.08E-04	1.73E-02	5.08E-04
Process ID	6	0.19	3.19E-03	5.93E-04	3.27E-03	0.19	3.19E-03	5.93E-04	3.27E-03	0.19	3.19E-03

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PRIORITIZATION SCORES AND POLLUTANTS: (For proximity method or optional factors information, please see section above.)

- Note: 1. Annual Emissions units: LBS/YR for toxics, TONS/YR for criteria pollutants, CURIES/YR for radionuclides.  
 2. Hourly Maximum Emissions units: LBS/HR for toxics, MILLICURIES/HR for radionuclides.  
 3. \* GHGs, non-regulatory pollutants, and user defined pollutants are marked by an asterisk with the pollutant ID.  
 These pollutants are not included in the prioritization score calculation.

Facility Name Highest FACID	CO	AB	DIS	DEVICE	PROID	Emission and Potency Procedure				Dispersion Adjustment Procedure										
						Cancer	Acute	Chronic	NonCancer	Cancer	Acute	Chronic	NonCancer							
BYD																				
Annual Operating Hours: 8760																				
1945 19 MD AV						2.46	1.68	6.62E-02	1.68	2.45	1.68	6.62E-02	1.68							
2.46																				
Device ID 46320						0.21	1.10E-02	2.02E-03	1.11E-02	0.21	1.10E-02	2.02E-03	1.11E-02							
ANNUAL EMS HR MAX EMS																				
Process ID 2						1.69E-03	1.48E-04	1.18E-05	1.49E-04	1.69E-03	1.48E-04	1.18E-05	1.49E-04							
Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS																
	95636	1,2,4TriMe	0.363	4.934E-04		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
	100414	Ethyl Benz	8.803E-02	1.196E-04		1.69E-03	0.00E+00	7.54E-07	7.54E-07	1.69E-03	0.00E+00	7.54E-07	7.54E-07							
	67630	Isopropyl	6.075E-02	8.254E-05		0.00E+00	3.87E-05	1.49E-07	3.87E-05	0.00E+00	3.87E-05	1.49E-07	3.87E-05							
	78933	MEK	9.243E-03	1.256E-05		0.00E+00	1.45E-06	0.00E+00	1.45E-06	0.00E+00	1.45E-06	0.00E+00	1.45E-06							
	108656	PGMEA	3.472	4.717E-03		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
	16113	ROG	3.768E-03	5.119E-06		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
	43101	TOG	3.768E-03	5.119E-06		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
	108883	Toluene	0.264	3.588E-04		0.00E+00	1.08E-04	1.08E-05	1.08E-04	0.00E+00	1.08E-04	1.08E-05	1.08E-04							
	43104	VOC	3.768E-03	5.119E-06		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
	1330207	Xylenes	6.162E-03	8.372E-06		0.00E+00	5.71E-07	1.51E-07	5.71E-07	0.00E+00	5.71E-07	1.51E-07	5.71E-07							
Process ID 3						1.74E-03	2.99E-05	8.67E-06	3.07E-05	1.73E-03	2.99E-05	8.67E-06	3.07E-05							
Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS																
	100414	Ethyl Benz	9.036E-02	1.228E-04		1.74E-03	0.00E+00	7.74E-07	7.74E-07	1.73E-03	0.00E+00	7.74E-07	7.74E-07							
	108101	MIBK	4.303E-02	5.846E-05		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
	16113	ROG	2.508E-03	3.408E-06		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							
	43101	TOG	2.508E-03	3.408E-06		0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00							

43104	VOC	2.508E-03	3.408E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1330207	Xylenes	0.323	4.385E-04	0.00E+00	2.99E-05	7.89E-06	2.99E-05	0.00E+00	2.99E-05	7.89E-06	2.99E-05	0.00E+00

Process ID 5

					2.44E-02	3.27E-03	4.45E-04	3.28E-03	2.43E-02	3.27E-03	4.45E-04	3.28E-03
Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	111762	EGBE	0.300	4.082E-04	0.00E+00	1.30E-04	6.27E-05	1.30E-04	0.00E+00	1.30E-04	6.27E-05	1.30E-04
	100414	Ethyl Benz	1.266	1.720E-03	2.44E-02	0.00E+00	1.08E-05	1.08E-05	2.43E-02	0.00E+00	1.08E-05	1.08E-05
	78933	MEK	1.902	2.584E-03	0.00E+00	2.98E-04	0.00E+00	2.98E-04	0.00E+00	2.98E-04	0.00E+00	2.98E-04
	108101	MIBK	49.856	6.774E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	71363	n-Butyl Al	3.862	5.248E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	16113	ROG	5.242E-02	7.122E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	100425	Styrene	0.541	7.348E-04	0.00E+00	5.25E-05	1.03E-05	5.25E-05	0.00E+00	5.25E-05	1.03E-05	5.25E-05
	43101	TOG	5.242E-02	7.122E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	108883	Toluene	5.633	7.653E-03	0.00E+00	2.30E-03	2.30E-04	2.30E-03	0.00E+00	2.30E-03	2.30E-04	2.30E-03
	43104	VOC	5.242E-02	7.122E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1330207	Xylenes	5.364	7.289E-03	0.00E+00	4.97E-04	1.31E-04	4.97E-04	0.00E+00	4.97E-04	1.31E-04	4.97E-04
	7440666	Zinc	0.406	5.510E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1314132	Zinc Oxide	0.135	1.837E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Process ID 6

					0.19	7.52E-03	1.56E-03	7.60E-03	0.18	7.52E-03	1.56E-03	7.60E-03
Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	100414	Ethyl Benz	9.631	1.309E-02	0.19	0.00E+00	8.25E-05	8.25E-05	0.18	0.00E+00	8.25E-05	8.25E-05
	16113	ROG	3.902E-02	5.302E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	100425	Styrene	77.499	0.105	0.00E+00	7.52E-03	1.47E-03	7.52E-03	0.00E+00	7.52E-03	1.47E-03	7.52E-03
	43101	TOG	3.902E-02	5.302E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43104	VOC	3.902E-02	5.302E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	7440666	Zinc	2.529E-02	3.436E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Device ID 90001

ANNUAL EMS HR MAX EMS

Process ID 1

					0.00E+00	0.27	4.39E-03	0.27	0.00E+00	0.27	4.39E-03	0.27
Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	98828	Cumene	0.785	9.811E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	80159	Cumene Hyd	0.785	9.811E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	107211	Ethylene G	0.785	9.811E-02	0.00E+00	0.00E+00	3.36E-05	3.36E-05	0.00E+00	0.00E+00	3.36E-05	3.36E-05
	110543	Hexane	245.914	2.365	0.00E+00	0.00E+00	6.02E-04	6.02E-04	0.00E+00	0.00E+00	6.02E-04	6.02E-04
	16113	ROG	0.500	4.461E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43101	TOG	0.500	4.461E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	108883	Toluene	92.218	0.887	0.00E+00	0.27	3.76E-03	0.27	0.00E+00	0.27	3.76E-03	0.27
	43104	VOC	0.500	4.461E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Device ID 90002

ANNUAL EMS HR MAX EMS

Process ID 1

					0.00E+00	6.66E-02	2.98E-03	6.66E-02	0.00E+00	6.66E-02	2.98E-03	6.66E-02
Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	16113	ROG	7.830E-02	4.660E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	100425	Styrene	156.590	0.932	0.00E+00	6.66E-02	2.98E-03	6.66E-02	0.00E+00	6.66E-02	2.98E-03	6.66E-02
	43101	TOG	7.830E-02	4.660E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43104	VOC	7.830E-02	4.660E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Device ID 90003

ANNUAL EMS HR MAX EMS

Process ID 1

					0.00E+00	2.61E-02	4.27E-04	2.61E-02	0.00E+00	2.61E-02	4.27E-04	2.61E-02
Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	67630	Isopropyl	93.200	5.271E-02	0.00E+00	2.47E-02	2.28E-04	2.47E-02	0.00E+00	2.47E-02	2.28E-04	2.47E-02
	67561	Methanol	46.600	2.636E-02	0.00E+00	1.41E-03	1.99E-04	1.41E-03	0.00E+00	1.41E-03	1.99E-04	1.41E-03
	108101	MIBK	46.600	2.636E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	16113	ROG	0.882	4.990E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43101	TOG	0.882	4.990E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43104	VOC	0.882	4.990E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Device ID 212645

ANNUAL EMS HR MAX EMS

					0.16	0.26	6.78E-03	0.26	0.16	0.26	6.78E-03	0.26
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Process ID 1

0.16 0.26 6.78E-03 0.26 0.16 0.26 6.78E-03 0.26

Pollutant

POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS
91576	2MeNaphtha	1.988E-05	9.412E-08
56495	3-MeCholan	1.491E-06	7.059E-09
57976	7,12-DB[a]	1.325E-05	6.275E-08
83329	Acenaphthe	1.491E-06	7.059E-09
208968	Acenaphthy	1.491E-06	7.059E-09
120127	Anthracene	1.988E-06	9.412E-09
7440382	Arsenic	1.656E-04	7.843E-07
56553	B[a]anthra	1.491E-06	7.059E-09
50328	B[a]P	1.325E-06	6.275E-09
205992	B[b]fluora	1.491E-06	7.059E-09
191242	B[g,h,i]pe	1.325E-06	6.275E-09
205823	B[j]fluora	1.491E-06	7.059E-09
7440393	Barium	3.644E-03	1.725E-05
71432	Benzene	0.364	1.725E-03
7440417	Beryllium	9.938E-06	4.706E-08
7440439	Cadmium	9.110E-04	4.314E-06
74828	CH4	1.905	9.020E-03
7440473	Chromium	1.159E-03	5.490E-06
218019	Chrysene	1.491E-06	7.059E-09
42101	CO	8.282E-03	3.922E-05
42102	CO2	99.381	0.471
7440484	Cobalt	6.957E-05	3.294E-07
7440508	Copper	7.039E-04	3.333E-06
53703	D[a,h]anth	1.325E-06	6.275E-09
25321226	DiClBenzen	9.938E-04	4.706E-06
206440	Fluoranth	2.485E-06	1.176E-08
86737	Fluorene	2.319E-06	1.098E-08
50000	Formaldehy	0.729	3.451E-03
110543	Hexane	9.110E-02	4.314E-04
193395	In[1,2,3-c	1.491E-06	7.059E-09
7439921	Lead	4.141E-04	1.961E-06
7439965	Manganese	3.147E-04	1.490E-06
7439976	Mercury	2.153E-04	1.020E-06
91203	Naphthalen	5.052E-04	2.392E-06
7440020	Nickel	1.739E-03	8.235E-06
42603	NOX	4.141E-02	1.961E-04
85018	Phenanthre	1.408E-05	6.667E-08
11101	PM	1.242E-03	5.882E-06
129000	Pyrene	4.141E-06	1.961E-08
16113	ROG	2.195E-03	1.039E-05
7782492	Selenium	1.988E-05	9.412E-08
42401	SOX	2.485E-04	1.176E-06
43101	TOG	4.990E-03	2.363E-05
108883	Toluene	0.182	8.627E-04
7440622	Vanadium	1.905E-03	9.020E-06
43104	VOC	2.195E-03	1.039E-05
7440666	Zinc	2.402E-02	1.137E-04

4.96E-02 0.26 2.05E-03 0.26 4.95E-02 0.26 2.05E-03 0.26

Device ID 212646

ANNUAL EMS HR MAX EMS

Process ID 1

4.96E-02 0.26 2.05E-03 0.26 4.95E-02 0.26 2.05E-03 0.26

Pollutant

POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS
91576	2MeNaphtha	6.009E-06	9.412E-08
56495	3-MeCholan	4.507E-07	7.059E-09
57976	7,12-DB[a]	4.006E-06	6.275E-08
83329	Acenaphthe	4.507E-07	7.059E-09
208968	Acenaphthy	4.507E-07	7.059E-09
120127	Anthracene	6.009E-07	9.412E-09
7440382	Arsenic	5.008E-05	7.843E-07
56553	B[a]anthra	4.507E-07	7.059E-09
50328	B[a]P	4.006E-07	6.275E-09
205992	B[b]fluora	4.507E-07	7.059E-09
191242	B[g,h,i]pe	4.006E-07	6.275E-09
205823	B[j]fluora	4.507E-07	7.059E-09

0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00





43101	TOG	8.703E-03	2.363E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108883	Toluene	0.318	8.627E-04	0.00E+00	2.59E-04	1.30E-05	2.59E-04	0.00E+00	2.59E-04	1.30E-05	2.59E-04	0.00E+00
7440622	Vanadium	3.322E-03	9.020E-06	0.00E+00	4.51E-04	0.00E+00	4.51E-04	0.00E+00	4.51E-04	0.00E+00	4.51E-04	0.00E+00
43104	VOC	3.828E-03	1.039E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7440666	Zinc	4.189E-02	1.137E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
				0.39	0.11	1.40E-02	0.11	0.38	0.11	1.40E-02	0.11	0.38

Device ID 412037  
ANNUAL EMS HR MAX EMS

Process ID 2 1.58E-03 5.16E-05 1.09E-05 5.23E-05 1.57E-03 5.16E-05 1.09E-05 5.23E-05

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	95636	1,2,4TriMe	0.246	1.689E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	100414	Ethyl Benz	8.199E-02	5.631E-05	1.58E-03	0.00E+00	7.02E-07	7.02E-07	1.57E-03	0.00E+00	7.02E-07	7.02E-07
	78933	MEK	8.609E-03	5.913E-06	0.00E+00	6.82E-07	0.00E+00	6.82E-07	0.00E+00	6.82E-07	0.00E+00	6.82E-07
	108656	PGMEA	2.870	1.971E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	16113	ROG	1.644E-02	1.129E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43101	TOG	1.644E-02	1.129E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	108883	Toluene	0.246	1.689E-04	0.00E+00	5.07E-05	1.00E-05	5.07E-05	0.00E+00	5.07E-05	1.00E-05	5.07E-05
	43104	VOC	1.644E-02	1.129E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1330207	Xylenes	5.739E-03	3.942E-06	0.00E+00	2.69E-07	1.40E-07	2.69E-07	0.00E+00	2.69E-07	1.40E-07	2.69E-07

Process ID 3 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	16113	ROG	2.869E-03	1.970E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43101	TOG	2.869E-03	1.970E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43104	VOC	2.869E-03	1.970E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Process ID 5 8.08E-02 3.12E-03 9.54E-04 3.16E-03 8.06E-02 3.12E-03 9.54E-04 3.16E-03

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	111762	EGBE	0.481	3.305E-04	0.00E+00	1.05E-04	1.00E-04	1.05E-04	0.00E+00	1.05E-04	1.00E-04	1.05E-04
	100414	Ethyl Benz	4.197	2.883E-03	8.08E-02	0.00E+00	3.59E-05	3.59E-05	8.06E-02	0.00E+00	3.59E-05	3.59E-05
	78933	MEK	3.481	2.391E-03	0.00E+00	2.76E-04	0.00E+00	2.76E-04	0.00E+00	2.76E-04	0.00E+00	2.76E-04
	108101	MIBK	126.719	8.703E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	71363	n-Butyl Al	14.865	1.021E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	16113	ROG	0.118	8.083E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	100425	Styrene	1.453	9.982E-04	0.00E+00	7.13E-05	2.77E-05	7.13E-05	0.00E+00	7.13E-05	2.77E-05	7.13E-05
	43101	TOG	0.118	8.083E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	108883	Toluene	9.022	6.196E-03	0.00E+00	1.86E-03	3.68E-04	1.86E-03	0.00E+00	1.86E-03	3.68E-04	1.86E-03
	43104	VOC	0.118	8.083E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1330207	Xylenes	17.270	1.186E-02	0.00E+00	8.09E-04	4.22E-04	8.09E-04	0.00E+00	8.09E-04	4.22E-04	8.09E-04
	7440666	Zinc	1.561	1.072E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1314132	Zinc Oxide	0.520	3.573E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Process ID 6 4.27E-02 5.79E-03 2.27E-03 5.81E-03 4.26E-02 5.79E-03 2.27E-03 5.81E-03

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	100414	Ethyl Benz	2.219	1.524E-03	4.27E-02	0.00E+00	1.90E-05	1.90E-05	4.26E-02	0.00E+00	1.90E-05	1.90E-05
	16113	ROG	5.978E-02	4.106E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	100425	Styrene	118.109	8.112E-02	0.00E+00	5.79E-03	2.25E-03	5.79E-03	0.00E+00	5.79E-03	2.25E-03	5.79E-03
	43101	TOG	5.978E-02	4.106E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43104	VOC	5.978E-02	4.106E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	7440666	Zinc	2.188E-04	1.502E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Process ID 7 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	16113	ROG	0.0	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43101	TOG	0.0	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43104	VOC	0.0	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Process ID 8 0.26 9.79E-02 1.08E-02 9.92E-02 0.26 9.79E-02 1.08E-02 9.92E-02

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	91576	2MeNaphtha	3.155E-05	3.529E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	56495	3-MeCholan	2.366E-06	2.647E-09	1.15E-04	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00
	57976	7,12-DB[a]	2.103E-05	2.353E-08	1.15E-02	0.00E+00	0.00E+00	0.00E+00	1.15E-02	0.00E+00	0.00E+00	0.00E+00



Process ID 8

5.72E-03 9.79E-02 2.36E-04 9.79E-02 5.71E-03 9.79E-02 2.36E-04 9.79E-02

Pollutant

POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS
91576	2MeNaphtha	6.934E-07	3.529E-08
56495	3-MeCholan	5.200E-08	2.647E-09
57976	7,12-DB[a]	4.622E-07	2.353E-08
83329	Acenaphthe	5.200E-08	2.647E-09
208968	Acenaphthy	5.200E-08	2.647E-09
120127	Anthracene	6.934E-08	3.529E-09
7440382	Arsenic	5.778E-06	2.941E-07
56553	B[a]anthra	5.200E-08	2.647E-09
50328	B[a]P	4.622E-08	2.353E-09
205992	B[b]fluora	5.200E-08	2.647E-09
191242	B[g,h,i]pe	4.622E-08	2.353E-09
205823	B[j]fluora	5.200E-08	2.647E-09
7440393	Barium	1.271E-04	6.471E-06
71432	Benzene	1.271E-02	6.471E-04
7440417	Beryllium	3.467E-07	1.765E-08
7440439	Cadmium	3.178E-05	1.618E-06
74828	CH4	6.645E-02	3.382E-03
7440473	Chromium	4.045E-05	2.059E-06
218019	Chrysene	5.200E-08	2.647E-09
42101	CO	2.889E-04	1.471E-05
42102	CO2	3.467	0.176
7440484	Cobalt	2.427E-06	1.235E-07
7440508	Copper	2.456E-05	1.250E-06
53703	D[a,h]anth	4.622E-08	2.353E-09
25321226	DiClBenzen	3.467E-05	1.765E-06
206440	Fluoranth	8.667E-08	4.412E-09
86737	Fluorene	8.089E-08	4.118E-09
50000	Formaldehy	2.542E-02	1.294E-03
110543	Hexane	3.178E-03	1.618E-04
193395	In[1,2,3-c	5.200E-08	2.647E-09
7439921	Lead	1.444E-05	7.353E-07
7439965	Manganese	1.098E-05	5.588E-07
7439976	Mercury	7.511E-06	3.824E-07
91203	Naphthalen	1.762E-05	8.971E-07
7440020	Nickel	6.067E-05	3.088E-06
42603	NOX	1.444E-03	7.353E-05
85018	Phenanthre	4.911E-07	2.500E-08
11101	PM	4.333E-05	2.206E-06
129000	Pyrene	1.444E-07	7.353E-09
16113	ROG	7.656E-05	3.897E-06
7782492	Selenium	6.934E-07	3.529E-08
42401	SOX	8.667E-06	4.412E-07
43101	TOG	1.741E-04	8.860E-06
108883	Toluene	6.356E-03	3.235E-04
7440622	Vanadium	6.645E-05	3.382E-06
43104	VOC	7.656E-05	3.897E-06
7440666	Zinc	8.378E-04	4.265E-05

0.15 8.35E-03 2.99E-03 8.42E-03 0.15 8.35E-03 2.99E-03 8.42E-03

Device ID 412633

ANNUAL EMS HR MAX EMS

Process ID 2

2.96E-03 1.01E-04 2.04E-05 1.02E-04 2.95E-03 1.01E-04 2.04E-05 1.02E-04

Pollutant

POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS
95636	1,2,4TriMe	0.461	3.294E-04
100414	Ethyl Benz	0.154	1.098E-04
78933	MEK	1.614E-02	1.153E-05
108656	PGMEA	5.381	3.843E-03
16113	ROG	6.216E-03	4.440E-06
43101	TOG	6.216E-03	4.440E-06
108883	Toluene	0.461	3.294E-04
43104	VOC	6.216E-03	4.440E-06
1330207	Xylenes	1.076E-02	7.687E-06

Process ID 3

0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS									
	16113	ROG	1.125E-03	8.036E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43101	TOG	1.125E-03	8.036E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43104	VOC	1.125E-03	8.036E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Process ID 5 5.11E-02 2.01E-03 5.96E-04 2.03E-03 5.10E-02 2.01E-03 5.96E-04 2.03E-03

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS									
	111762	EGBE	0.305	2.179E-04	0.00E+00	6.96E-05	6.37E-05	6.96E-05	0.00E+00	6.96E-05	6.37E-05	6.96E-05	
	100414	Ethyl Benz	2.656	1.897E-03	5.11E-02	0.00E+00	2.27E-05	2.27E-05	5.10E-02	0.00E+00	2.27E-05	2.27E-05	
	78933	MEK	1.887	1.348E-03	0.00E+00	1.55E-04	0.00E+00	1.55E-04	0.00E+00	1.55E-04	0.00E+00	1.55E-04	
	108101	MIBK	73.338	5.238E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	71363	n-Butyl Al	9.404	6.717E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	16113	ROG	7.454E-02	5.324E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	100425	Styrene	0.488	3.486E-04	0.00E+00	2.49E-05	9.28E-06	2.49E-05	0.00E+00	2.49E-05	9.28E-06	2.49E-05	
	43101	TOG	7.454E-02	5.324E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	108883	Toluene	5.721	4.086E-03	0.00E+00	1.23E-03	2.33E-04	1.23E-03	0.00E+00	1.23E-03	2.33E-04	1.23E-03	
	43104	VOC	7.454E-02	5.324E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	1330207	Xylenes	10.930	7.807E-03	0.00E+00	5.32E-04	2.67E-04	5.32E-04	0.00E+00	5.32E-04	2.67E-04	5.32E-04	
	7440666	Zinc	0.987	7.053E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	1314132	Zinc Oxide	0.329	2.351E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

Process ID 6 9.29E-02 6.24E-03 2.37E-03 6.28E-03 9.27E-02 6.24E-03 2.37E-03 6.28E-03

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS									
	100414	Ethyl Benz	4.828	3.449E-03	9.29E-02	0.00E+00	4.13E-05	4.13E-05	9.27E-02	0.00E+00	4.13E-05	4.13E-05	
	16113	ROG	6.142E-02	4.387E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	100425	Styrene	122.351	8.739E-02	0.00E+00	6.24E-03	2.33E-03	6.24E-03	0.00E+00	6.24E-03	2.33E-03	6.24E-03	
	43101	TOG	6.142E-02	4.387E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	43104	VOC	6.142E-02	4.387E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	7440666	Zinc	1.313E-03	9.375E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

Process ID 7 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS									
	16113	ROG	0.0	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	43101	TOG	0.0	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	43104	VOC	0.0	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	

Device ID 412635  
ANNUAL EMS HR MAX EMS

Process ID 2 5.28E-02 1.47E-02 3.74E-04 1.48E-02 5.27E-02 1.47E-02 3.74E-04 1.48E-02

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS									
	95636	1,2,4TriMe	9.063	2.635E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	100414	Ethyl Benz	2.743	7.975E-03	5.28E-02	0.00E+00	2.35E-05	2.35E-05	5.27E-02	0.00E+00	2.35E-05	2.35E-05	
	67630	Isopropyl	4.400	1.279E-02	0.00E+00	6.00E-03	1.08E-05	6.00E-03	0.00E+00	6.00E-03	1.08E-05	6.00E-03	
	78933	MEK	4.542	1.320E-02	0.00E+00	1.52E-03	0.00E+00	1.52E-03	0.00E+00	1.52E-03	0.00E+00	1.52E-03	
	108656	PGMEA	100.820	0.293	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	16113	ROG	0.194	5.644E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	43101	TOG	0.194	5.644E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	108883	Toluene	8.230	2.392E-02	0.00E+00	7.18E-03	3.36E-04	7.18E-03	0.00E+00	7.18E-03	3.36E-04	7.18E-03	
	43104	VOC	0.194	5.644E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	1330207	Xylenes	0.192	5.582E-04	0.00E+00	3.81E-05	4.70E-06	3.81E-05	0.00E+00	3.81E-05	4.70E-06	3.81E-05	

Process ID 3 3.54E-02 1.30E-03 1.76E-04 1.32E-03 3.53E-02 1.30E-03 1.76E-04 1.32E-03

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS									
	100414	Ethyl Benz	1.837	5.341E-03	3.54E-02	0.00E+00	1.57E-05	1.57E-05	3.53E-02	0.00E+00	1.57E-05	1.57E-05	
	108101	MIBK	0.875	2.543E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	16113	ROG	8.162E-02	2.373E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	43101	TOG	8.162E-02	2.373E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	43104	VOC	8.162E-02	2.373E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
	1330207	Xylenes	6.562	1.908E-02	0.00E+00	1.30E-03	1.61E-04	1.30E-03	0.00E+00	1.30E-03	1.61E-04	1.30E-03	

Process ID 5 1.54E-03 6.33E-05 8.49E-06 6.39E-05 1.53E-03 6.33E-05 8.49E-06 6.39E-05

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS
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100414	Ethyl Benz	7.980E-02	2.320E-04	1.54E-03	0.00E+00	6.83E-07	6.83E-07	1.53E-03	0.00E+00	6.83E-07	6.83E-07
108101	MIBK	34.513	0.100	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
71363	n-Butyl Al	0.319	9.279E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
16113	ROG	5.432E-02	1.579E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43101	TOG	5.432E-02	1.579E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
43104	VOC	5.432E-02	1.579E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1330207	Xylenes	0.319	9.279E-04	0.00E+00	6.33E-05	7.81E-06	6.33E-05	0.00E+00	6.33E-05	7.81E-06	6.33E-05
7440666	Zinc	3.352E-02	9.743E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1314132	Zinc Oxide	1.117E-02	3.248E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Device ID 412636  
ANNUAL EMS HR MAX EMS

Process ID 2 7.33E-03 3.84E-03 5.07E-05 3.85E-03 7.31E-03 3.84E-03 5.07E-05 3.85E-03

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	95636	1,2,4TriMe	1.143	1.099E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	100414	Ethyl Benz	0.381	3.663E-03	7.33E-03	0.00E+00	3.26E-06	3.26E-06	7.31E-03	0.00E+00	3.26E-06	3.26E-06
	67630	Isopropyl	7.230E-02	6.952E-04	0.00E+00	3.26E-04	1.77E-07	3.26E-04	0.00E+00	3.26E-04	1.77E-07	3.26E-04
	78933	MEK	0.185	1.775E-03	0.00E+00	2.05E-04	0.00E+00	2.05E-04	0.00E+00	2.05E-04	0.00E+00	2.05E-04
	108656	PGMEA	13.332	0.128	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	16113	ROG	2.207E-02	2.122E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43101	TOG	2.207E-02	2.122E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	108883	Toluene	1.143	1.099E-02	0.00E+00	3.30E-03	4.66E-05	3.30E-03	0.00E+00	3.30E-03	4.66E-05	3.30E-03
	43104	VOC	2.207E-02	2.122E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1330207	Xylenes	2.666E-02	2.564E-04	0.00E+00	1.75E-05	6.52E-07	1.75E-05	0.00E+00	1.75E-05	6.52E-07	1.75E-05

Process ID 3 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	16113	ROG	1.117E-02	1.074E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43101	TOG	1.117E-02	1.074E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43104	VOC	1.117E-02	1.074E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Process ID 5 7.01E-04 9.55E-05 3.87E-06 9.58E-05 6.99E-04 9.55E-05 3.87E-06 9.58E-05

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	100414	Ethyl Benz	3.641E-02	3.501E-04	7.01E-04	0.00E+00	3.12E-07	3.12E-07	6.99E-04	0.00E+00	3.12E-07	3.12E-07
	71363	n-Butyl Al	0.146	1.400E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	16113	ROG	2.899E-03	2.788E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43101	TOG	2.899E-03	2.788E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43104	VOC	2.899E-03	2.788E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1330207	Xylenes	0.146	1.400E-03	0.00E+00	9.55E-05	3.56E-06	9.55E-05	0.00E+00	9.55E-05	3.56E-06	9.55E-05
	7440666	Zinc	1.529E-02	1.470E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1314132	Zinc Oxide	5.097E-03	4.901E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Process ID 6 0.00E+00 1.91E-04 5.30E-06 1.91E-04 0.00E+00 1.91E-04 5.30E-06 1.91E-04

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	16113	ROG	1.392E-04	1.339E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	100425	Styrene	0.278	2.677E-03	0.00E+00	1.91E-04	5.30E-06	1.91E-04	0.00E+00	1.91E-04	5.30E-06	1.91E-04
	43101	TOG	1.392E-04	1.339E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43104	VOC	1.392E-04	1.339E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Device ID 412637  
ANNUAL EMS HR MAX EMS

Process ID 2 0.14 1.32E-02 1.01E-03 1.32E-02 0.14 1.32E-02 1.01E-03 1.32E-02

Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	95636	1,2,4TriMe	21.963	2.952E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	100414	Ethyl Benz	7.388	9.931E-03	0.14	0.00E+00	6.33E-05	6.33E-05	0.14	0.00E+00	6.33E-05	6.33E-05
	67630	Isopropyl	5.462	7.342E-03	0.00E+00	3.44E-03	1.34E-05	3.44E-03	0.00E+00	3.44E-03	1.34E-05	3.44E-03
	78933	MEK	4.240	5.699E-03	0.00E+00	6.58E-04	0.00E+00	6.58E-04	0.00E+00	6.58E-04	0.00E+00	6.58E-04
	108656	PGMEA	256.238	0.344	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	16113	ROG	0.308	4.134E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43101	TOG	0.308	4.134E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	108883	Toluene	22.331	3.001E-02	0.00E+00	9.00E-03	9.10E-04	9.00E-03	0.00E+00	9.00E-03	9.10E-04	9.00E-03
	43104	VOC	0.308	4.134E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1330207	Xylenes	0.880	1.183E-03	0.00E+00	8.07E-05	2.15E-05	8.07E-05	0.00E+00	8.07E-05	2.15E-05	8.07E-05

Process ID	3				8.22E-02	1.40E-03	4.10E-04	1.43E-03	8.20E-02	1.40E-03	4.10E-04	1.43E-03
Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	100414	Ethyl Benz	4.271	5.741E-03	8.22E-02	0.00E+00	3.66E-05	3.66E-05	8.20E-02	0.00E+00	3.66E-05	3.66E-05
	108101	MIBK	2.034	2.734E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	16113	ROG	0.115	1.550E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43101	TOG	0.115	1.550E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43104	VOC	0.115	1.550E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1330207	Xylenes	15.254	2.050E-02	0.00E+00	1.40E-03	3.73E-04	1.40E-03	0.00E+00	1.40E-03	3.73E-04	1.40E-03
Process ID	5				6.36E-03	1.21E-04	3.51E-05	1.24E-04	6.34E-03	1.21E-04	3.51E-05	1.24E-04
Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	100414	Ethyl Benz	0.330	4.438E-04	6.36E-03	0.00E+00	2.83E-06	2.83E-06	6.34E-03	0.00E+00	2.83E-06	2.83E-06
	108101	MIBK	73.997	9.946E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	71363	n-Butyl Al	1.321	1.775E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	16113	ROG	8.416E-02	1.131E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43101	TOG	8.416E-02	1.131E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43104	VOC	8.416E-02	1.131E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1330207	Xylenes	1.321	1.775E-03	0.00E+00	1.21E-04	3.23E-05	1.21E-04	0.00E+00	1.21E-04	3.23E-05	1.21E-04
	7440666	Zinc	0.139	1.864E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1314132	Zinc Oxide	4.622E-02	6.213E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Process ID	6				0.29	3.83E-03	8.87E-04	3.95E-03	0.29	3.83E-03	8.87E-04	3.95E-03
Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	100414	Ethyl Benz	15.088	2.028E-02	0.29	0.00E+00	1.29E-04	1.29E-04	0.29	0.00E+00	1.29E-04	1.29E-04
	16113	ROG	1.992E-02	2.678E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	100425	Styrene	39.848	5.356E-02	0.00E+00	3.83E-03	7.58E-04	3.83E-03	0.00E+00	3.83E-03	7.58E-04	3.83E-03
	43101	TOG	1.992E-02	2.678E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43104	VOC	1.992E-02	2.678E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Process ID	7				0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	16113	ROG	0.0	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43101	TOG	0.0	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43104	VOC	0.0	0.0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Device ID	412638				0.24	8.01E-03	9.08E-04	8.12E-03	0.23	8.01E-03	9.08E-04	8.12E-03
ANNUAL EMS												
HR MAX EMS												
Process ID	2				2.93E-02	4.31E-03	2.08E-04	4.32E-03	2.92E-02	4.31E-03	2.08E-04	4.32E-03
Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	95636	1,2,4TriMe	4.561	7.601E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	100414	Ethyl Benz	1.520	2.534E-03	2.93E-02	0.00E+00	1.30E-05	1.30E-05	2.92E-02	0.00E+00	1.30E-05	1.30E-05
	67630	Isopropyl	2.516	4.194E-03	0.00E+00	1.97E-03	6.16E-06	1.97E-03	0.00E+00	1.97E-03	6.16E-06	1.97E-03
	78933	MEK	0.254	4.240E-04	0.00E+00	4.89E-05	0.00E+00	4.89E-05	0.00E+00	4.89E-05	0.00E+00	4.89E-05
	108656	PGMEA	53.208	8.868E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	16113	ROG	7.718E-02	1.286E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43101	TOG	7.718E-02	1.286E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	108883	Toluene	4.561	7.601E-03	0.00E+00	2.28E-03	1.86E-04	2.28E-03	0.00E+00	2.28E-03	1.86E-04	2.28E-03
	43104	VOC	7.718E-02	1.286E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1330207	Xylenes	0.106	1.774E-04	0.00E+00	1.21E-05	2.60E-06	1.21E-05	0.00E+00	1.21E-05	2.60E-06	1.21E-05
Process ID	3				8.70E-04	1.83E-05	4.33E-06	1.87E-05	8.67E-04	1.83E-05	4.33E-06	1.87E-05
Pollutant	POL ID	POLLUTANT	ANNUAL EMS	HR MAX EMS								
	100414	Ethyl Benz	4.518E-02	7.530E-05	8.70E-04	0.00E+00	3.87E-07	3.87E-07	8.67E-04	0.00E+00	3.87E-07	3.87E-07
	108101	MIBK	2.151E-02	3.586E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	16113	ROG	3.075E-02	5.126E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43101	TOG	3.075E-02	5.126E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	43104	VOC	3.075E-02	5.126E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	1330207	Xylenes	0.161	2.689E-04	0.00E+00	1.83E-05	3.95E-06	1.83E-05	0.00E+00	1.83E-05	3.95E-06	1.83E-05
Process ID	5				1.73E-02	5.00E-04	1.02E-04	5.08E-04	1.73E-02	5.00E-04	1.02E-04	5.08E-04

