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Date: January 3, 2022

To: Micah Hintz, P.G., G.E., Haley & Aldrich by email to MHintz@haleyaldrich.com

From: Scott D. Cohen, P.E., C.I.H.

**Re: Air Quality and Climate Change Impact Assessment
80-12 Industrial Center Project – Fairfield, CA**

The Project consists of the construction and operation of two warehouse structures and parking lots required by the City of Fairfield. The location of the Project is 300 Chadbourne Road which is currently occupied by a shuttered former Walmart store. The California Environmental Quality Act (CEQA) requires environmental analysis of projects requiring discretionary approval by the local agency with land use authority. Normally, CEQA evaluates the impact of reasonably foreseeable changes in the environment that would occur with a project.

EXECUTIVE SUMMARY

Table 1 summarizes the CEQA Environmental Checklist Form questions that are used as thresholds against which to evaluate the significance of Project impacts.

Table 1. Significance Determinations

Threshold	Impact
AQ-1. Would the Project conflict with or obstruct implementation of the applicable air quality plan?	Less Than Significant.
AQ-2. Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	Less Than Significant.
AQ-3. Would the Project expose sensitive receptors to substantial pollutant concentrations?	Less Than Significant.
AQ-4. Would the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	Less Than Significant.
GHG-1. Would the Project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	Less Than Significant.
GHG-2. Would the Project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	Less Than Significant.

Based on the impact assessment provided herein and the significance determinations in Table 1, the Project would have less than significant impacts on air quality and climate change/greenhouse gas emissions.

INTRODUCTION

For air quality impact analysis emissions associated with the project site constitute the existing physical setting or “baseline” against which changes that would occur with a project are measured. In such cases, emissions occurring in the existing setting are subtracted from project emissions to determine the change in the environment. Depending on the magnitude and direction of the change, impacts are determined to be one of three categories: No Impact, Less Than Significant Impact, or Significant impact. Project that are determined to have a significant impact must mitigate the impact to less than significant levels or the maximum extent feasible.

This impact assessment omits the baseline emissions associated with the Project site and instead presents Project emissions as they would be assessed for a “greenfield” site that had not been developed in the past. Omitting existing emissions is conservative because it inflates the Project impacts. This approach was chosen due to the low emissions levels and related less than significant impacts that would occur with the Project and which are discussed further below.

METHODOLOGY

CalEEMod (version 2020.4.0) was used with default settings to calculate emissions from the Project (output attached). As input CalEEMod takes primarily land uses and areas as input. Institute of Transportation Engineers (ITE) trip rates are used by CalEEMod to calculate vehicle emissions associated with a project. For most non-industrial projects, vehicular emissions are the primary emissions source during operation phase. In addition, CalEEMod contains assumptions about construction vehicles and dust generation that are based on area affected, cut-fill amounts, and type of land use among other factors. For this Project the land use parameters input to CalEEMod are presented in Table 2.

Table 2. Land Use Parameters

LandUseType	LandUseSubType	LandUseUnitAmount	LandUseSizeMetric	LotAcreage
Commercial	General Office Building	15	1000sqft	0.34
Commercial	General Office Building	24	1000sqft	0.55
Industrial	Refrigerated Warehouse-No Rail	88.4	1000sqft	2.03
Industrial	Refrigerated Warehouse-No Rail	201.4	1000sqft	4.62
Parking	Parking Lot	106	Space	0.95
Parking	Parking Lot	180	Space	1.62

BAAQMD “developed screening criteria to provide lead agencies and project applicants with a conservative indication of whether the proposed project could result in potentially significant air quality impacts. If all of the screening criteria are met by a proposed project, then the lead agency or applicant would not need to perform a detailed air quality assessment of their project’s air pollutant emissions. These screening levels are generally representative of new development on greenfield sites without any form of mitigation measures taken into consideration. In addition, the screening criteria in this section do not account for project design features, attributes, or local development requirements that could also result in lower emissions. For projects that are mixed-use, infill, and/or proximate to transit service and local services, emissions would be less than the greenfield type project that these screening criteria are based on.” (Pg. 3-1, BAAQMD CEQA Guidelines).

“If a project includes emissions from stationary source engines (e.g., back-up generators) and industrial sources subject to Air District Rules and Regulations, the screening criteria should not be used. The project’s stationary source emissions should be analyzed separately from the land use-related indirect mobile- and area-source emissions. Stationary-source emissions are not included in the screening estimates given below and, for criteria pollutants, must be added to the indirect mobile- and area-source emissions generated by the land use development and compared to the appropriate Thresholds of Significance. Greenhouse gas emissions from permitted stationary sources should not be combined with operational emissions but compared to a separate stationary source greenhouse gas threshold.” (Pg. 3-1, BAAQMD CEQA Guidelines).

Table 3. BAAQMD Screening Level Sizes Comparison

Land Use Type	Criteria Pollutant Screening Size (square feet)	GHG Screening Size (square feet)	Construction-Related Screening Size (square feet)	Project (square feet)
General office building	346,000 (NOx)	53,000	277,000 (ROG)	39,000
Warehouse	864,000 (NOx)	64,000	259,000 (NOx)	290,000
Parking lot	n/a	n/a	n/a	112,000

Source: Pg. 3-2, BAAQMD Guidelines. n/a = not applicable. Oxides of nitrogen (NOx) and reactive organic gases (ROG) are pollutants and bases for values in the table.

Individually and combined, based on the values in Table 3, reasonably foreseeable operation phase criteria pollutant emissions impacts screen out from further analysis and would be considered less than significant.

GHG impacts would not screen out but current practice in GHG impact assessment is best applied. Current practice for project-level GHG impact assessment is that first taken by South Coast Air Quality Management District (SCAQMD) in the Final Negative Declaration for the Phillips 66 Los Angeles Refinery Carson Plant – Crude Oil Storage Capacity Project on December 12, 2014¹ which states the following relative to GHG impacts from that project.

“The Refinery is subject to GHG emission reductions pursuant to AB32, the state-wide GHG reduction plan. In December 2010, CARB adopted regulations establishing a cap and trade program for the largest sources of GHG emissions in the state that altogether are responsible for about 85 percent of California’s GHGs. Among these are fossil-fuel fired power plants, including both plants that generate power within California’s borders, and those located outside of California that generate power imported to the state. GHG emissions from this universe of sources were capped for 2013 at a level approximately two percent below the emissions level forecast for 2012, and the cap will steadily decrease at a rate of two to three percent annually from now to 2020. Sources regulated by the cap must reduce their GHG emissions or buy credits from others who have done so. This means that the additional power utilized at the LARC as a result of the proposed project cannot result in an increase in GHG emissions from the increased use of third-party power, compared to GHG emissions at the time of issuance of the NOP. The proposed project does not affect compliance with the requirements of AB32, since no change in

¹ <http://www.aqmd.gov/docs/default-source/ceqa/documents/permit-projects/2014/phillips-66-fnd.pdf>

GHG emissions at LARC from operation of the proposed project are expected. Therefore, the proposed project would not conflict with AB32, the applicable GHG reduction plan, policy, and regulations that have been adopted to implement AB32.”

As discussed above, sources affected by the cap-and-trade regulation would not conflict with AB32, the applicable GHG reduction plan, policy, and regulations that have been adopted to implement AB32. Although the quote discusses third-party generated power, the same would be true for fuels in California including natural gas and automotive fuels that are produced or imported by a third-party. There is no direct stationary combustion component of the Project and indirect emissions would come from use of fuels and electricity captured upstream in the supply chain by AB32 regulation and cap-and-trade. Therefore, the Project would pay its fair share to mitigate the cumulative impact of GHGs on the environment and the impact is considered less than significant.

Construction impacts are approximately equal to the screening level(s). Given the conservative nature of screening methods, it is likely that quantitative analysis will show that construction phase Project impacts are also less than significant.

In the spirit of disclosure and for purposes of supporting the above claims, quantitative analysis of air emissions was performed using CalEEMod (version 4.2.0) for the land uses presented in Table 2. Default values were used throughout the CalEEMod analysis including the construction phasing and equipment in Table 4, Table 5, and Table 6, refrigerated warehouse and loading dock emissions, fleet mixes for each land use and trip rates, among other parameters described in the appendices of the CalEEMod User Guide.²

Table 4. Construction Phases

Phase	Name	Type	Start Date	End Date	Days per Week	Days
1	Demolition	Demolition	2022/01/01	2022/01/28	5	20
2	Grading	Grading	2022/01/29	2022/03/11	5	30
3	Building Construction	Building Construction	2022/03/12	2023/05/05	5	300
4	Architectural Coating - Parking Lot Striping	Architectural Coating	2022/05/20	2022/06/16	5	20
5	Architectural Coating - Interior	Architectural Coating	2023/03/01	2023/03/28	5	20
6	Paving	Paving	2023/04/22	2023/05/19	5	20
7	Architectural Coating - Exterior Bldg 1	Architectural Coating	2023/05/20	2023/06/16	5	20
8	Architectural Coating - Exterior Bldg 2	Architectural Coating	2023/06/17	2023/07/14	5	20

² www.caleemod.com

Table 5. Construction Equipment

Phase Name	OffRoad Equipment Type	Unit Amount	Usage Hours	Horse-power	Load Factor
Demolition	Concrete/Industrial Saws	1	8	81	0.73
Demolition	Excavators	3	8	158	0.38
Demolition	Rubber Tired Dozers	2	8	247	0.4
Demolition	Tractors/Loaders/Backhoes	0		97	0.37
Grading	Excavators	2	8	158	0.38
Grading	Graders	1	8	187	0.41
Grading	Rubber Tired Dozers	1	8	247	0.4
Grading	Scrapers	2	8	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
Building Construction	Forklifts	3	8	89	0.2
Building Construction	Generator Sets	1	8	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37
Building Construction	Welders	1	8	46	0.45
Architectural Coating - Parking Lot Striping	Air Compressors	1	6	78	0.48
Architectural Coating - Interior	Air Compressors	1	6	78	0.48
Paving	Pavers	2	8	130	0.42
Paving	Paving Equipment	2	8	132	0.36
Paving	Rollers	2	8	80	0.38
Architectural Coating - Exterior Bldg 1	Air Compressors	1	6	78	0.48
Architectural Coating - Exterior Bldg 2	Air Compressors	1	6	78	0.48

Table 6. Construction Phase Trips

Phase Name	Worker Trips per Day	Vendor Trips per Day	Hauling Trips per Day	Worker Trip Length (mi)	Vendor Trip Length (mi)	Hauling Trip Length (mi)
Demolition	15	0	646	10.8	7.3	20
Grading	20	0	0	10.8	7.3	20
Building Construction	182	73	0	10.8	7.3	20
Architectural Coating - Parking Lot Striping	36	0	0	10.8	7.3	20
Architectural Coating - Interior	36	0	0	10.8	7.3	20
Paving	15	0	0	10.8	7.3	20
Architectural Coating - Exterior Bldg 1	36	0	0	10.8	7.3	20
Architectural Coating - Exterior Bldg 2	36	0	0	10.8	7.3	20

The primary source of operation phase emissions is vehicular traffic. Table 7 presents the operation phase trip rates and vehicle miles traveled (VMT) for the Project.

Table 7. Operation Phase Trips

Land Use	Weekday ADT	Saturday ADT	Sunday ADT	Annual VMT
General Office Building	146.1	33.15	10.5	264,290
General Office Building	233.76	53.04	16.80	422,863
Parking Lot	0	0	0	0
Parking Lot	0	0	0	0
Refrigerated Warehouse-No Rail	187.41	187.41	187.41	547,140
Refrigerated Warehouse-No Rail	426.97	426.97	426.97	1,256,538
TOTAL	994.24	700.57	641.68	2,480,831

Source: CalEEMod run attached. ADT = average daily trips.

SIGNIFICANCE THRESHOLDS

Each local land use agency determines its own significance thresholds. The CEQA Guidelines Appendix G Environmental Checklist Form is a primary resource in determining significance of a Project and/or thresholds of significance to be used for project in a jurisdiction. The air quality and climate change sections of the Checklist are shown below.

In addition, the BAAQMD has published significance thresholds for projects where it is the lead agency. Such projects are typically industrial projects that come to BAAQMD as applications for authority to construct a source and which trigger CEQA. Local land use agencies often use air district significance thresholds unless they have adopted their own thresholds. Review of the City of Fairfield Planning Department webpage revealed a link to the CEQA Guidelines and no City-adopted CEQA significance thresholds. Therefore, for this Project the significance thresholds are the CEQA Guidelines Environmental Checklist Form questions (Figure 1) which are evaluated using the project-level criteria established by BAAQMD in its significance thresholds which are excerpted below (Figure 2).

IMPACT ASSESSMENTS

AQ-1. Would the Project conflict with or obstruct implementation of the applicable air quality plan?

Control measures to reduce emissions that are described in the applicable air quality plans would each be implemented as rules and undergo the associated public rulemaking process during which the feasibility of compliance with proposed requirements could be discussed and adjusted as needed. Thus, it is unlikely that such a process would result in a requirement that the Project could not comply with. In the end, the Project would be required to comply with regional air quality rules promulgated by the BAAQMD and participate in reducing air pollutant emissions. The Project is unlikely to result in population growth, which is a factor that is accounted for in air quality plans. Therefore, the Project would not obstruct implementation of an air quality plan and the impact is less than significant.

Figure 1. CEQA Guidelines Environmental Checklist Form Excerpts

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
III. AIR QUALITY. Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☐	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☐	☐
d) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☐	☐
e) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☐	☐
VIII. GREENHOUSE GAS EMISSIONS. Would the project:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☐	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☐	☐

Figure 2. BAAQMD Project-Level Significance Thresholds

Pollutant	Construction-Related	Operational-Related	
Project-Level			
Criteria Air Pollutants and Precursors (Regional)	Average Daily Emissions (lb/day)	Average Daily Emissions (lb/day)	Maximum Annual Emissions (tpy)
ROG	54	54	10
NO _x	54	54	10
PM ₁₀	82 (exhaust)	82	15
PM _{2.5}	54 (exhaust)	54	10
PM ₁₀ /PM _{2.5} (fugitive dust)	Best Management Practices	None	
Local CO	None	9.0 ppm (8-hour average), 20.0 ppm (1-hour average)	
GHGs – Projects other than Stationary Sources	None	Compliance with Qualified GHG Reduction Strategy OR 1,100 MT of CO ₂ e/yr OR 4.6 MT CO ₂ e/SP/yr (residents+employees)	
GHGs –Stationary Sources	None	10,000 MT/yr	
Risk and Hazards for new sources and receptors (Individual Project)*	Same as Operational Thresholds**	Compliance with Qualified Community Risk Reduction Plan OR Increased cancer risk of >10.0 in a million Increased non-cancer risk of > 1.0 Hazard Index (Chronic or Acute) Ambient PM _{2.5} increase: > 0.3 µg/m ³ annual average <u>Zone of Influence:</u> 1,000-foot radius from property line of source or receptor	
Risk and Hazards for new sources and receptors (Cumulative Threshold)*	Same as Operational Thresholds**	Compliance with Qualified Community Risk Reduction Plan OR Cancer: > 100 in a million (from all local sources) Non-cancer: > 10.0 Hazard Index (from all local sources) (Chronic) PM _{2.5} : > 0.8 µg/m ³ annual average (from all local sources) <u>Zone of Influence:</u> 1,000-foot radius from property line of source or receptor	
Accidental Release of Acutely Hazardous Air Pollutants*	None	Storage or use of acutely hazardous materials locating near receptors or new receptors locating near stored or used acutely hazardous materials considered significant	
Odors*	None	5 confirmed complaints per year averaged over three years	

AQ-2. Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

The middle column in Figure 2 contains the significance criteria used to determine if the construction of the Project would result in a cumulatively considerable net increase of non-attainment pollutants. Based on the comparison of Project construction emissions with the applicable thresholds in Table 8, the Project would have a less than cumulatively considerable impact on non-attainment pollutants.

Table 8. Construction Phase Daily Emissions

Description	Average Daily Emissions ¹ (lb/day)					
	PM ₁₀	PM _{2.5}	NO _x	SO _x	CO	ROG
2022 Emissions	11.00	5.20	38.90	0.06	29.60	42.60
2023 Emissions	3.40	1.70	28.00	0.08	36.70	39.50
Maximum Year Emissions	11.00	5.20	38.90	0.08	36.70	42.60
BAAQMD CEQA Screening Criteria ³	82.00	54.00	54.00	N/A	N/A	54.00
Project Emissions > Screening Criteria?	No	No	No	N/A	N/A	No

1. Average Daily Emissions (lb/day) = Maximum Annual Emissions (tpy) x 2,000 (lb/ton) / 365 (days/yr)

2. Maximum Annual Emissions (tpy) calculated using CalEEMod Version 2020.4.0

3. CEQA screening criteria per the 2017 Bay Area Air Quality Management District CEQA Guidelines.

Table 9. Construction Phase Annual Emissions

Description	Maximum Annual Emissions ² (tpy)					
	PM ₁₀	PM _{2.5}	NO _x	SO _x	CO	ROG
2022 Emissions	0.55	0.24	3.00	<0.01	3.00	0.74
2023 Emissions	0.14	0.06	0.95	<0.01	1.20	0.83
Maximum Year Emissions	0.55	0.24	3.00	<0.01	3.00	0.83
BAAQMD CEQA Screening Criteria ³	N/A	N/A	N/A	N/A	N/A	N/A

1. Average Daily Emissions (lb/day) = Maximum Annual Emissions (tpy) x 2,000 (lb/ton) / 365 (days/yr).

2. Maximum Annual Emissions (tpy) calculated using CalEEMod Version 2020.4.0.

3. CEQA screening criteria per the 2017 Bay Area Air Quality Management District CEQA Guidelines.

As discussed above, Operation Phase screened out of further analysis. Nevertheless, Operation Phase emissions were calculated using CalEEMod and are presented in Table 10 and Table 11.

Table 10. Operation Phase Daily Emissions

Description	Average Daily Emissions ¹ (lb/day)					
	PM ₁₀	PM _{2.5}	NO _x	SO _x	CO	ROG
Area	<0.01	<0.01	<0.01	-	0.06	8.03
Energy	0.04	0.04	0.46	<0.01	0.39	0.05
Mobile	5.70	1.56	3.69	0.06	27.92	3.35
Waste	-	-	-	-	-	-
Water	-	-	-	-	-	-
Project Total	5.74	1.60	4.15	0.06	28.37	11.43
BAAQMD CEQA Screening Criteria ³	82.00	54.00	54.00	N/A	N/A	54.00
Project Emissions > Screening Criteria?	No	No	No	N/A	N/A	No

1. Average Daily Emissions (lb/day) = Maximum Annual Emissions (tpy) x 2,000 (lb/ton) / 365 (days/yr).

2. Maximum Annual Emissions (tpy) calculated using CalEEMod Version 2020.4.0.

3. CEQA screening criteria per the 2017 Bay Area Air Quality Management District CEQA Guidelines.

Table 11. Operation Phase Annual Emissions

Description	Maximum Annual Emissions ² (tpy)					
	PM ₁₀	PM _{2.5}	NO _x	SO _x	CO	ROG
Area	<0.01	<0.01	<0.01	-	<0.01	1.47
Energy	<0.01	<0.01	0.08	<0.01	0.07	<0.01
Mobile	0.93	0.25	0.67	<0.01	4.57	0.49
Waste	-	-	-	-	-	-
Water	-	-	-	-	-	-
Project Total	0.93	0.26	0.75	<0.01	4.65	1.97
BAAQMD CEQA Screening Criteria ³	15.00	10.00	10.00	N/A	N/A	10.00
Project Emissions > Screening Criteria?	No	No	No	N/A	N/A	No

1. Average Daily Emissions (lb/day) = Maximum Annual Emissions (tpy) x 2,000 (lb/ton) / 365 (days/yr).

2. Maximum Annual Emissions (tpy) calculated using CalEEMod Version 2020.4.0.

3. CEQA screening criteria per the 2017 Bay Area Air Quality Management District CEQA Guidelines.

As shown by comparison to BAAQMD criteria pollutant thresholds and by land use size screening method described above, the Project would result in less than cumulatively considerable impacts on non-attainment criteria pollutants and their precursors.

AQ-3. Would the Project expose sensitive receptors to substantial pollutant concentrations?

Generally, projects that do not exceed a criteria pollutant threshold do not generate substantial pollutant concentrations or health risk to the public. In this case, the building would be electrified and vehicles would be subject to idling restrictions when loading. As shown in Figure 3, neighboring properties are primarily commercial with some residential to the northeast but separated from the Project site by State Road 12.

Figure 3. Aerial Photo of Project Site



Given the lack of significant criteria pollutant impacts and lack of industrial sources in the Project, it follows that the public exposures to Project-generated pollutants would be of minimal concentration and toxicity. Therefore, the Project impact on sensitive receptors is less than significant.

AQ-4. Would the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The Project does not involve other emissions that may affect a substantial number of people. The land uses comprising the Project are not found in the Odor Screening Distances table in the BAAQMD CEQA Guidelines. Therefore, the Project impact from other emissions that would affect a substantial number of people is less than significant.

GHG-1. Would the Project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

GHG emissions calculated by CalEEMod are presented in Table 12.

Table 12. GHG Emissions

Description	Maximum Annual Emissions ¹ (MT/yr)			
	CO ₂	N ₂ O	CH ₄	CO ₂ e
Area	0.01	-	<0.01	0.01
Energy	418.73	<0.01	0.05	422.50
Mobile	879.28	0.04	0.06	894.04
Waste	62.66	-	3.70	155.24
Water	61.86	0.06	2.42	139.43
Project Total	1,422.54	0.11	6.23	1,611.23
BAAQMD CEQA Screening Criteria ^{2,3}				1,100.00

Source: CalEEMod (attached).

1. Maximum Annual Emissions (tpy) calculated using CalEEMod Version 2020.4.0/
2. CEQA screening criteria per the 2017 Bay Area Air Quality Management District CEQA Guidelines.
3. The Project will utilize energy sources which are consistent with applicable state and local plans and comply with AB 32 GHG reduction goals. As such, while the project GHG emissions exceed the screening criteria threshold for non-stationary source projects identified in the BAAQMD CEQA Guidelines, the project is not considered significant for GHG emissions.

As discussed above, the Project would exclusively use electricity and fuels that are regulated by the AB32 Scoping Plan and related programs such as Cap-and-Trade and the fuels program. Accordingly, the Project will pay its fair share of the cost to mitigate the cumulative impact of climate change. The Project has no associated direct combustion feature and thus would have a less than significant impact.

GHG-2. Would the Project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

As discussed above, the Project would exclusively use electricity and fuels that are regulated by the AB32 Scoping Plan and related programs such as Cap-and-Trade and the fuels program. Accordingly, the Project will pay its fair share of the cost to mitigate the cumulative impact of climate change. The Project has no associated direct combustion feature and thus would have a less than significant impact.

Acronyms

AB 32	Assembly Bill 32 Global Warming Solutions Act of 2006
ADT	average daily trips
BAAQMD	Bay Area Air Quality Management District
CalEEMod	California Emissions Estimation Model
CEQA	California Environmental Quality Act
CO	carbon monoxide
GHG	greenhouse gas
LARC	Conoco Phillips 66 Los Angeles Refinery
lb/day	pounds per day
MT/yr	metric tons per year
NOP	notice of preparation
NOx	oxides of nitrogen
PM	particulate matter
PM10	particulate matter with mean aerodynamic diameter of 10 micrometers or less
PM2.5	particulate matter with mean aerodynamic diameter of 2.5 micrometers or less
ROG	reactive organic gas
sqft	square feet
SCAQMD	South Coast Air Quality Management District (SCAQMD)
SOx	oxides of sulfur
tpy	tons per year
VMT	vehicle miles traveled

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Chadbourne Industrial Center
Solano-San Francisco County, Summer

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	15.00	1000sqft	0.34	15,000.00	0
General Office Building	24.00	1000sqft	0.55	24,000.00	0
Refrigerated Warehouse-No Rail	88.40	1000sqft	2.03	88,400.00	0
Refrigerated Warehouse-No Rail	201.40	1000sqft	4.62	201,400.00	0
Parking Lot	106.00	Space	0.95	42,400.00	0
Parking Lot	180.00	Space	1.62	72,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	56
Climate Zone	4			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Parking lot spaces required per the City of Fairfield, CA Municipal Code, Chapter 25, Section 25.34 - Parking and Loading.

Construction Phase -

Off-road Equipment -

Demolition - Measured on Google Earth Pro

Grading -

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	164,400.00	112,700.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	164,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	164,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	164,400.00	51,700.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	493,200.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	493,200.00	58,500.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	493,200.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	493,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	6,864.00	0.00
tblArchitecturalCoating	ConstArea_Parking	6,864.00	0.00
tblArchitecturalCoating	ConstArea_Parking	6,864.00	114,400.00
tblArchitecturalCoating	ConstArea_Parking	6,864.00	0.00

2.0 Emissions Summary

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
2022	42.5708	38.8816	29.5695	0.0636	9.3679	1.6358	11.0037	3.6973	1.5049	5.2022	0.0000	6,220.589 6	6,220.589 6	1.9486	0.3365	6,321.727 7
2023	39.4778	28.0110	36.7453	0.0797	2.2857	1.2384	3.3516	0.6175	1.1548	1.7265	0.0000	7,878.081 5	7,878.081 5	1.3700	0.2677	7,990.966 7
Maximum	42.5708	38.8816	36.7453	0.0797	9.3679	1.6358	11.0037	3.6973	1.5049	5.2022	0.0000	7,878.081 5	7,878.081 5	1.9486	0.3365	7,990.966 7

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	42.5708	38.8816	29.5695	0.0636	9.3679	1.6358	11.0037	3.6973	1.5049	5.2022	0.0000	6,220.589 6	6,220.589 6	1.9486	0.3365	6,321.727 7
2023	39.4778	28.0110	36.7453	0.0797	2.2857	1.2384	3.3516	0.6175	1.1548	1.7265	0.0000	7,878.081 5	7,878.081 5	1.3700	0.2677	7,990.966 6
Maximum	42.5708	38.8816	36.7453	0.0797	9.3679	1.6358	11.0037	3.6973	1.5049	5.2022	0.0000	7,878.081 5	7,878.081 5	1.9486	0.3365	7,990.966 6

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

[illegible]

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	8.0352	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434
Energy	0.0510	0.4639	0.3897	2.7800e-003		0.0353	0.0353		0.0353	0.0353		556.7265	556.7265	0.0107	0.0102	560.0349
Mobile	3.3516	3.6935	27.9231	0.0597	5.6932	0.0476	5.7408	1.5169	0.0446	1.5615		6,132.3943	6,132.3943	0.3534	0.2824	6,225.3722
Total	11.4378	4.1580	28.3756	0.0625	5.6932	0.0831	5.7763	1.5169	0.0801	1.5970		6,689.2554	6,689.2554	0.3644	0.2926	6,785.5505

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	8.0352	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434
Energy	0.0510	0.4639	0.3897	2.7800e-003		0.0353	0.0353		0.0353	0.0353		556.7265	556.7265	0.0107	0.0102	560.0349
Mobile	3.3516	3.6935	27.9231	0.0597	5.6932	0.0476	5.7408	1.5169	0.0446	1.5615		6,132.3943	6,132.3943	0.3534	0.2824	6,225.3722
Total	11.4378	4.1580	28.3756	0.0625	5.6932	0.0831	5.7763	1.5169	0.0801	1.5970		6,689.2554	6,689.2554	0.3644	0.2926	6,785.5505

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	Demolition	Demolition	1/1/2022	1/28/2022	5	20	
2	Grading	Grading	1/29/2022	3/11/2022	5	30	
3	Building Construction	Building Construction	3/12/2022	5/5/2023	5	300	
4	Architectural Coating - Parking Lot Striping	Architectural Coating	5/20/2022	6/16/2022	5	20	
5	Architectural Coating - Interior	Architectural Coating	3/1/2023	3/28/2023	5	20	
6	Paving	Paving	4/22/2023	5/19/2023	5	20	
7	Architectural Coating - Exterior Bldg 1	Architectural Coating	5/20/2023	6/16/2023	5	20	
8	Architectural Coating - Exterior Bldg 2	Architectural Coating	6/17/2023	7/14/2023	5	20	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 90****Acres of Paving: 2.57****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 114,400 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Demolition	Tractors/Loaders/Backhoes	0		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
Architectural Coating - Parking Lot Striping	Air Compressors	1	6.00	78	0.48
Architectural Coating - Interior	Air Compressors	1	6.00	78	0.48
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 - Exterior Bldg 1	Air Compressors	1	6.00	78	0.48
Architectural Coating - Exterior Bldg 2	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
Demolition	6	15.00	0.00	646.00	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	182.00	73.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Parking Lot Striping	1	36.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Interior	1	36.00	0.00	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

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Architectural Coating - Exterior Bldg 1	1	36.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Exterior Bldg 2	1	36.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 Demolition - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.9889	0.0000	6.9889	1.0582	0.0000	1.0582			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	6.9889	1.2427	8.2316	1.0582	1.1553	2.2134		3,746.7812	3,746.7812	1.0524		3,773.0920

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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	0.1332	4.8183	1.0221	0.0200	0.5661	0.0492	0.6153	0.1553	0.0471	0.2024		2,120.309 2	2,120.309 2	0.0136	0.3335	2,220.021 5
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	0.0490	0.0286	0.3960	1.1600e- 003	0.1232	6.6000e- 004	0.1239	0.0327	6.0000e- 004	0.0333		118.3663	118.3663	3.3200e- 003	2.9800e- 003	119.3365
Total	0.1822	4.8469	1.4181	0.0211	0.6893	0.0499	0.7392	0.1880	0.0477	0.2357		2,238.675 5	2,238.675 5	0.0169	0.3365	2,339.358 0

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.9889	0.0000	6.9889	1.0582	0.0000	1.0582			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	6.9889	1.2427	8.2316	1.0582	1.1553	2.2134	0.0000	3,746.781 2	3,746.781 2	1.0524		3,773.092 0

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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	0.1332	4.8183	1.0221	0.0200	0.5661	0.0492	0.6153	0.1553	0.0471	0.2024		2,120.309 2	2,120.309 2	0.0136	0.3335	2,220.021 5
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	0.0490	0.0286	0.3960	1.1600e- 003	0.1232	6.6000e- 004	0.1239	0.0327	6.0000e- 004	0.0333		118.3663	118.3663	3.3200e- 003	2.9800e- 003	119.3365
Total	0.1822	4.8469	1.4181	0.0211	0.6893	0.0499	0.7392	0.1880	0.0477	0.2357		2,238.675 5	2,238.675 5	0.0169	0.3365	2,339.358 0

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.410 5	6,011.410 5	1.9442		6,060.015 8
Total	3.6248	38.8435	29.0415	0.0621	9.2036	1.6349	10.8385	3.6538	1.5041	5.1579		6,011.410 5	6,011.410 5	1.9442		6,060.015 8

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

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	0.0653	0.0381	0.5280	1.5500e-003	0.1643	8.7000e-004	0.1652	0.0436	8.0000e-004	0.0444		157.8217	157.8217	4.4200e-003	3.9700e-003	159.1153
Total	0.0653	0.0381	0.5280	1.5500e-003	0.1643	8.7000e-004	0.1652	0.0436	8.0000e-004	0.0444		157.8217	157.8217	4.4200e-003	3.9700e-003	159.1153

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	9.2036	1.6349	10.8385	3.6538	1.5041	5.1579	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

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	0.0653	0.0381	0.5280	1.5500e-003	0.1643	8.7000e-004	0.1652	0.0436	8.0000e-004	0.0444		157.8217	157.8217	4.4200e-003	3.9700e-003	159.1153
Total	0.0653	0.0381	0.5280	1.5500e-003	0.1643	8.7000e-004	0.1652	0.0436	8.0000e-004	0.0444		157.8217	157.8217	4.4200e-003	3.9700e-003	159.1153

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

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	0.1800	3.9109	1.3295	0.0158	0.4949	0.0476	0.5425	0.1425	0.0455	0.1880		1,664.551 1	1,664.551 1	0.0129	0.2381	1,735.832 8
Worker	0.5941	0.3469	4.8048	0.0141	1.4951	7.9500e-003	1.5030	0.3966	7.3200e-003	0.4039		1,436.177 8	1,436.177 8	0.0402	0.0361	1,447.949 1
Total	0.7742	4.2578	6.1344	0.0299	1.9900	0.0555	2.0455	0.5391	0.0528	0.5919		3,100.728 9	3,100.728 9	0.0531	0.2743	3,183.781 9

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

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	0.1800	3.9109	1.3295	0.0158	0.4949	0.0476	0.5425	0.1425	0.0455	0.1880		1,664.551 1	1,664.551 1	0.0129	0.2381	1,735.832 8
Worker	0.5941	0.3469	4.8048	0.0141	1.4951	7.9500e-003	1.5030	0.3966	7.3200e-003	0.4039		1,436.177 8	1,436.177 8	0.0402	0.0361	1,447.949 1
Total	0.7742	4.2578	6.1344	0.0299	1.9900	0.0555	2.0455	0.5391	0.0528	0.5919		3,100.728 9	3,100.728 9	0.0531	0.2743	3,183.781 9

3.4 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

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	0.0959	3.1036	1.1341	0.0152	0.4949	0.0203	0.5152	0.1425	0.0194	0.1620		1,601.409 0	1,601.409 0	8.9800e- 003	0.2277	1,669.497 1
Worker	0.5499	0.3057	4.4188	0.0137	1.4951	7.5500e- 003	1.5026	0.3966	6.9500e- 003	0.4035		1,398.608 5	1,398.608 5	0.0362	0.0334	1,409.465 2
Total	0.6458	3.4093	5.5529	0.0289	1.9900	0.0279	2.0179	0.5391	0.0264	0.5655		3,000.017 5	3,000.017 5	0.0452	0.2611	3,078.962 3

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

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	0.0959	3.1036	1.1341	0.0152	0.4949	0.0203	0.5152	0.1425	0.0194	0.1620		1,601.409 0	1,601.409 0	8.9800e- 003	0.2277	1,669.497 1
Worker	0.5499	0.3057	4.4188	0.0137	1.4951	7.5500e- 003	1.5026	0.3966	6.9500e- 003	0.4035		1,398.608 5	1,398.608 5	0.0362	0.0334	1,409.465 2
Total	0.6458	3.4093	5.5529	0.0289	1.9900	0.0279	2.0179	0.5391	0.0264	0.5655		3,000.017 5	3,000.017 5	0.0452	0.2611	3,078.962 3

3.5 Architectural Coating - Parking Lot Striping - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.7683					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	39.9728	1.4085	1.8136	2.9700e- 003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - Parking Lot Striping - 2022

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	0.1175	0.0686	0.9504	2.7900e-003	0.2957	1.5700e-003	0.2973	0.0784	1.4500e-003	0.0799		284.0791	284.0791	7.9600e-003	7.1500e-003	286.4075
Total	0.1175	0.0686	0.9504	2.7900e-003	0.2957	1.5700e-003	0.2973	0.0784	1.4500e-003	0.0799		284.0791	284.0791	7.9600e-003	7.1500e-003	286.4075

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	39.7683					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	39.9728	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - Parking Lot Striping - 2022

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	0.1175	0.0686	0.9504	2.7900e-003	0.2957	1.5700e-003	0.2973	0.0784	1.4500e-003	0.0799		284.0791	284.0791	7.9600e-003	7.1500e-003	286.4075
Total	0.1175	0.0686	0.9504	2.7900e-003	0.2957	1.5700e-003	0.2973	0.0784	1.4500e-003	0.0799		284.0791	284.0791	7.9600e-003	7.1500e-003	286.4075

3.6 Architectural Coating - Interior - 2023

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	13.5574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	13.7490	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - Interior - 2023

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	0.1088	0.0605	0.8741	2.7000e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		276.6478	276.6478	7.1600e-003	6.6100e-003	278.7953
Total	0.1088	0.0605	0.8741	2.7000e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		276.6478	276.6478	7.1600e-003	6.6100e-003	278.7953

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	13.5574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	13.7490	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - Interior - 2023

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	0.1088	0.0605	0.8741	2.7000e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		276.6478	276.6478	7.1600e-003	6.6100e-003	278.7953
Total	0.1088	0.0605	0.8741	2.7000e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		276.6478	276.6478	7.1600e-003	6.6100e-003	278.7953

3.7 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.3367					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3694	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Paving - 2023

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	0.0453	0.0252	0.3642	1.1300e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		115.2699	115.2699	2.9800e-003	2.7500e-003	116.1647
Total	0.0453	0.0252	0.3642	1.1300e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		115.2699	115.2699	2.9800e-003	2.7500e-003	116.1647

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.3367					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3694	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Paving - 2023

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	0.0453	0.0252	0.3642	1.1300e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		115.2699	115.2699	2.9800e-003	2.7500e-003	116.1647
Total	0.0453	0.0252	0.3642	1.1300e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		115.2699	115.2699	2.9800e-003	2.7500e-003	116.1647

3.8 Architectural Coating - Exterior Bldg 1 - 2023

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	17.9722					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	18.1639	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Architectural Coating - Exterior Bldg 1 - 2023

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	0.1088	0.0605	0.8741	2.7000e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		276.6478	276.6478	7.1600e-003	6.6100e-003	278.7953
Total	0.1088	0.0605	0.8741	2.7000e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		276.6478	276.6478	7.1600e-003	6.6100e-003	278.7953

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	17.9722					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	18.1639	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Architectural Coating - Exterior Bldg 1 - 2023

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	0.1088	0.0605	0.8741	2.7000e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		276.6478	276.6478	7.1600e-003	6.6100e-003	278.7953
Total	0.1088	0.0605	0.8741	2.7000e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		276.6478	276.6478	7.1600e-003	6.6100e-003	278.7953

3.9 Architectural Coating - Exterior Bldg 2 - 2023

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	39.1773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	39.3690	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 Architectural Coating - Exterior Bldg 2 - 2023

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	0.1088	0.0605	0.8741	2.7000e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		276.6478	276.6478	7.1600e-003	6.6100e-003	278.7953
Total	0.1088	0.0605	0.8741	2.7000e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		276.6478	276.6478	7.1600e-003	6.6100e-003	278.7953

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	39.1773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	39.3690	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 Architectural Coating - Exterior Bldg 2 - 2023

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	0.1088	0.0605	0.8741	2.7000e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		276.6478	276.6478	7.1600e-003	6.6100e-003	278.7953
Total	0.1088	0.0605	0.8741	2.7000e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		276.6478	276.6478	7.1600e-003	6.6100e-003	278.7953

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	3.3516	3.6935	27.9231	0.0597	5.6932	0.0476	5.7408	1.5169	0.0446	1.5615		6,132.394 3	6,132.394 3	0.3534	0.2824	6,225.372 2
Unmitigated	3.3516	3.6935	27.9231	0.0597	5.6932	0.0476	5.7408	1.5169	0.0446	1.5615		6,132.394 3	6,132.394 3	0.3534	0.2824	6,225.372 2

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	146.10	33.15	10.50	264,290	264,290
General Office Building	233.76	53.04	16.80	422,863	422,863
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	187.41	187.41	187.41	547,140	547,140
Refrigerated Warehouse-No Rail	426.97	426.97	426.97	1,246,538	1,246,538
Total	994.24	700.57	641.68	2,480,831	2,480,831

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	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
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.554526	0.053831	0.165930	0.132086	0.027621	0.006783	0.007681	0.014870	0.000982	0.000404	0.029673	0.000793	0.004819
Parking Lot	0.554526	0.053831	0.165930	0.132086	0.027621	0.006783	0.007681	0.014870	0.000982	0.000404	0.029673	0.000793	0.004819
Refrigerated Warehouse-No Rail	0.554526	0.053831	0.165930	0.132086	0.027621	0.006783	0.007681	0.014870	0.000982	0.000404	0.029673	0.000793	0.004819

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0510	0.4639	0.3897	2.7800e-003		0.0353	0.0353		0.0353	0.0353		556.7265	556.7265	0.0107	0.0102	560.0349
NaturalGas Unmitigated	0.0510	0.4639	0.3897	2.7800e-003		0.0353	0.0353		0.0353	0.0353		556.7265	556.7265	0.0107	0.0102	560.0349

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1065.21	0.0115	0.1044	0.0877	6.3000e-004		7.9400e-003	7.9400e-003		7.9400e-003	7.9400e-003		125.3183	125.3183	2.4000e-003	2.3000e-003	126.0630
General Office Building	665.753	7.1800e-003	0.0653	0.0548	3.9000e-004		4.9600e-003	4.9600e-003		4.9600e-003	4.9600e-003		78.3239	78.3239	1.5000e-003	1.4400e-003	78.7894
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
Refrigerated Warehouse-No Rail	2085.73	0.0225	0.2045	0.1718	1.2300e-003		0.0155	0.0155		0.0155	0.0155		245.3802	245.3802	4.7000e-003	4.5000e-003	246.8384
Refrigerated Warehouse-No Rail	915.485	9.8700e-003	0.0898	0.0754	5.4000e-004		6.8200e-003	6.8200e-003		6.8200e-003	6.8200e-003		107.7041	107.7041	2.0600e-003	1.9700e-003	108.3441
Total		0.0510	0.4639	0.3897	2.7900e-003		0.0353	0.0353		0.0353	0.0353		556.7265	556.7265	0.0107	0.0102	560.0349

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
General Office Building	0.665753	7.1800e-003	0.0653	0.0548	3.9000e-004		4.9600e-003	4.9600e-003		4.9600e-003	4.9600e-003		78.3239	78.3239	1.5000e-003	1.4400e-003	78.7894
General Office Building	1.06521	0.0115	0.1044	0.0877	6.3000e-004		7.9400e-003	7.9400e-003		7.9400e-003	7.9400e-003		125.3183	125.3183	2.4000e-003	2.3000e-003	126.0630
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
Refrigerated Warehouse-No Rail	0.915485	9.8700e-003	0.0898	0.0754	5.4000e-004		6.8200e-003	6.8200e-003		6.8200e-003	6.8200e-003		107.7041	107.7041	2.0600e-003	1.9700e-003	108.3441
Refrigerated Warehouse-No Rail	2.08573	0.0225	0.2045	0.1718	1.2300e-003		0.0155	0.0155		0.0155	0.0155		245.3802	245.3802	4.7000e-003	4.5000e-003	246.8384
Total		0.0510	0.4639	0.3897	2.7900e-003		0.0353	0.0353		0.0353	0.0353		556.7265	556.7265	0.0107	0.0102	560.0349

6.0 Area Detail

6.1 Mitigation Measures Area

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	8.0352	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434
Unmitigated	8.0352	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434

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	0.9525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.0768					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8100e-003	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434
Total	8.0352	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.9525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.0768					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8100e-003	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434
Total	8.0352	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434

7.0 Water Detail

7.1 Mitigation Measures Water

Chadbourne Industrial Center - Solano-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Chadbourne Industrial Center
Solano-San Francisco County, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	15.00	1000sqft	0.34	15,000.00	0
General Office Building	24.00	1000sqft	0.55	24,000.00	0
Refrigerated Warehouse-No Rail	88.40	1000sqft	2.03	88,400.00	0
Refrigerated Warehouse-No Rail	201.40	1000sqft	4.62	201,400.00	0
Parking Lot	106.00	Space	0.95	42,400.00	0
Parking Lot	180.00	Space	1.62	72,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	56
Climate Zone	4			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Parking lot spaces required per the City of Fairfield, CA Municipal Code, Chapter 25, Section 25.34 - Parking and Loading.

Construction Phase -

Off-road Equipment -

Demolition - Measured on Google Earth Pro

Grading -

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	164,400.00	112,700.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	164,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	164,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	164,400.00	51,700.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	493,200.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	493,200.00	58,500.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	493,200.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	493,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	6,864.00	0.00
tblArchitecturalCoating	ConstArea_Parking	6,864.00	0.00
tblArchitecturalCoating	ConstArea_Parking	6,864.00	114,400.00
tblArchitecturalCoating	ConstArea_Parking	6,864.00	0.00

2.0 Emissions Summary

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
2022	42.5480	38.8915	29.5404	0.0635	9.3679	1.6358	11.0037	3.6973	1.5049	5.2022	0.0000	6,156.162 0	6,156.162 0	1.9493	0.3372	6,206.276 9
2023	39.4750	28.3196	36.5452	0.0785	2.2857	1.2385	3.3517	0.6175	1.1548	1.7266	0.0000	7,756.119 9	7,756.119 9	1.3760	0.2754	7,871.234 2
Maximum	42.5480	38.8915	36.5452	0.0785	9.3679	1.6358	11.0037	3.6973	1.5049	5.2022	0.0000	7,756.119 9	7,756.119 9	1.9493	0.3372	7,871.234 2

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					
2022	42.5480	38.8915	29.5404	0.0635	9.3679	1.6358	11.0037	3.6973	1.5049	5.2022	0.0000	6,156.162 0	6,156.162 0	1.9493	0.3372	6,206.276 9
2023	39.4750	28.3196	36.5452	0.0785	2.2857	1.2385	3.3517	0.6175	1.1548	1.7266	0.0000	7,756.119 9	7,756.119 9	1.3760	0.2754	7,871.234 2
Maximum	42.5480	38.8915	36.5452	0.0785	9.3679	1.6358	11.0037	3.6973	1.5049	5.2022	0.0000	7,756.119 9	7,756.119 9	1.9493	0.3372	7,871.234 2

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

[illegible]

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	8.0352	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434
Energy	0.0510	0.4639	0.3897	2.7800e-003		0.0353	0.0353		0.0353	0.0353		556.7265	556.7265	0.0107	0.0102	560.0349
Mobile	2.9572	4.2823	29.8803	0.0560	5.6932	0.0476	5.7409	1.5169	0.0446	1.5615		5,747.0503	5,747.0503	0.4066	0.3107	5,849.7876
Total	11.0434	4.7468	30.3327	0.0587	5.6932	0.0831	5.7764	1.5169	0.0801	1.5970		6,303.9114	6,303.9114	0.4176	0.3209	6,409.9659

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	8.0352	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434
Energy	0.0510	0.4639	0.3897	2.7800e-003		0.0353	0.0353		0.0353	0.0353		556.7265	556.7265	0.0107	0.0102	560.0349
Mobile	2.9572	4.2823	29.8803	0.0560	5.6932	0.0476	5.7409	1.5169	0.0446	1.5615		5,747.0503	5,747.0503	0.4066	0.3107	5,849.7876
Total	11.0434	4.7468	30.3327	0.0587	5.6932	0.0831	5.7764	1.5169	0.0801	1.5970		6,303.9114	6,303.9114	0.4176	0.3209	6,409.9659

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	Demolition	Demolition	1/1/2022	1/28/2022	5	20	
2	Grading	Grading	1/29/2022	3/11/2022	5	30	
3	Building Construction	Building Construction	3/12/2022	5/5/2023	5	300	
4	Architectural Coating - Parking Lot Striping	Architectural Coating	5/20/2022	6/16/2022	5	20	
5	Architectural Coating - Interior	Architectural Coating	3/1/2023	3/28/2023	5	20	
6	Paving	Paving	4/22/2023	5/19/2023	5	20	
7	Architectural Coating - Exterior Bldg 1	Architectural Coating	5/20/2023	6/16/2023	5	20	
8	Architectural Coating - Exterior Bldg 2	Architectural Coating	6/17/2023	7/14/2023	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 2.57

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 114,400 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Demolition	Tractors/Loaders/Backhoes	0		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
Architectural Coating - Parking Lot Striping	Air Compressors	1	6.00	78	0.48
Architectural Coating - Interior	Air Compressors	1	6.00	78	0.48
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 - Exterior Bldg 1	Air Compressors	1	6.00	78	0.48
Architectural Coating - Exterior Bldg 2	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
Demolition	6	15.00	0.00	646.00	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	182.00	73.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Parking Lot Striping	1	36.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Interior	1	36.00	0.00	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

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Architectural Coating - Exterior Bldg 1	1	36.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Exterior Bldg 2	1	36.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 Demolition - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.9889	0.0000	6.9889	1.0582	0.0000	1.0582			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	6.9889	1.2427	8.2316	1.0582	1.1553	2.2134		3,746.7812	3,746.7812	1.0524		3,773.0920

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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	0.1285	5.1557	1.0437	0.0200	0.5661	0.0493	0.6154	0.1553	0.0472	0.2024		2,121.799 0	2,121.799 0	0.0134	0.3337	2,221.580 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0476	0.0360	0.3741	1.0700e-003	0.1232	6.6000e-004	0.1239	0.0327	6.0000e-004	0.0333		108.5636	108.5636	3.8200e-003	3.4800e-003	109.6958
Total	0.1761	5.1918	1.4178	0.0211	0.6893	0.0500	0.7393	0.1880	0.0478	0.2357		2,230.362 6	2,230.362 6	0.0172	0.3372	2,331.275 9

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.9889	0.0000	6.9889	1.0582	0.0000	1.0582			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	6.9889	1.2427	8.2316	1.0582	1.1553	2.2134	0.0000	3,746.781 2	3,746.781 2	1.0524		3,773.092 0

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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	0.1285	5.1557	1.0437	0.0200	0.5661	0.0493	0.6154	0.1553	0.0472	0.2024		2,121.799 0	2,121.799 0	0.0134	0.3337	2,221.580 1
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0476	0.0360	0.3741	1.0700e-003	0.1232	6.6000e-004	0.1239	0.0327	6.0000e-004	0.0333		108.5636	108.5636	3.8200e-003	3.4800e-003	109.6958
Total	0.1761	5.1918	1.4178	0.0211	0.6893	0.0500	0.7393	0.1880	0.0478	0.2357		2,230.362 6	2,230.362 6	0.0172	0.3372	2,331.275 9

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.410 5	6,011.410 5	1.9442		6,060.015 8
Total	3.6248	38.8435	29.0415	0.0621	9.2036	1.6349	10.8385	3.6538	1.5041	5.1579		6,011.410 5	6,011.410 5	1.9442		6,060.015 8

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

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	0.0635	0.0480	0.4989	1.4200e-003	0.1643	8.7000e-004	0.1652	0.0436	8.0000e-004	0.0444		144.7515	144.7515	5.1000e-003	4.6400e-003	146.2611
Total	0.0635	0.0480	0.4989	1.4200e-003	0.1643	8.7000e-004	0.1652	0.0436	8.0000e-004	0.0444		144.7515	144.7515	5.1000e-003	4.6400e-003	146.2611

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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	9.2036	1.6349	10.8385	3.6538	1.5041	5.1579	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

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	0.0635	0.0480	0.4989	1.4200e-003	0.1643	8.7000e-004	0.1652	0.0436	8.0000e-004	0.0444		144.7515	144.7515	5.1000e-003	4.6400e-003	146.2611
Total	0.0635	0.0480	0.4989	1.4200e-003	0.1643	8.7000e-004	0.1652	0.0436	8.0000e-004	0.0444		144.7515	144.7515	5.1000e-003	4.6400e-003	146.2611

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

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	0.1769	4.1747	1.3749	0.0158	0.4949	0.0477	0.5426	0.1425	0.0456	0.1881		1,665.987 5	1,665.987 5	0.0127	0.2388	1,737.474 2
Worker	0.5778	0.4371	4.5395	0.0130	1.4951	7.9500e-003	1.5030	0.3966	7.3200e-003	0.4039		1,317.238 6	1,317.238 6	0.0464	0.0422	1,330.975 9
Total	0.7546	4.6118	5.9144	0.0287	1.9900	0.0557	2.0456	0.5391	0.0530	0.5920		2,983.226 1	2,983.226 1	0.0591	0.2810	3,068.450 1

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

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	0.1769	4.1747	1.3749	0.0158	0.4949	0.0477	0.5426	0.1425	0.0456	0.1881		1,665.987 5	1,665.987 5	0.0127	0.2388	1,737.474 2
Worker	0.5778	0.4371	4.5395	0.0130	1.4951	7.9500e-003	1.5030	0.3966	7.3200e-003	0.4039		1,317.238 6	1,317.238 6	0.0464	0.0422	1,330.975 9
Total	0.7546	4.6118	5.9144	0.0287	1.9900	0.0557	2.0456	0.5391	0.0530	0.5920		2,983.226 1	2,983.226 1	0.0591	0.2810	3,068.450 1

3.4 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2023****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	0.0918	3.3263	1.1743	0.0152	0.4949	0.0204	0.5153	0.1425	0.0195	0.1620		1,604.495 9	1,604.495 9	8.7300e- 003	0.2287	1,672.852 1
Worker	0.5357	0.3851	4.1968	0.0125	1.4951	7.5500e- 003	1.5026	0.3966	6.9500e- 003	0.4035		1,283.081 5	1,283.081 5	0.0420	0.0390	1,295.749 9
Total	0.6275	3.7113	5.3711	0.0277	1.9900	0.0279	2.0179	0.5391	0.0265	0.5655		2,887.577 4	2,887.577 4	0.0507	0.2676	2,968.602 0

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

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	0.0918	3.3263	1.1743	0.0152	0.4949	0.0204	0.5153	0.1425	0.0195	0.1620		1,604.4959	1,604.4959	8.7300e-003	0.2287	1,672.8521
Worker	0.5357	0.3851	4.1968	0.0125	1.4951	7.5500e-003	1.5026	0.3966	6.9500e-003	0.4035		1,283.0815	1,283.0815	0.0420	0.0390	1,295.7499
Total	0.6275	3.7113	5.3711	0.0277	1.9900	0.0279	2.0179	0.5391	0.0265	0.5655		2,887.5774	2,887.5774	0.0507	0.2676	2,968.6020

3.5 Architectural Coating - Parking Lot Striping - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.7683					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	39.9728	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - Parking Lot Striping - 2022

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	0.1143	0.0865	0.8979	2.5600e-003	0.2957	1.5700e-003	0.2973	0.0784	1.4500e-003	0.0799		260.5527	260.5527	9.1800e-003	8.3500e-003	263.2700
Total	0.1143	0.0865	0.8979	2.5600e-003	0.2957	1.5700e-003	0.2973	0.0784	1.4500e-003	0.0799		260.5527	260.5527	9.1800e-003	8.3500e-003	263.2700

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	39.7683					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	39.9728	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - Parking Lot Striping - 2022

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	0.1143	0.0865	0.8979	2.5600e-003	0.2957	1.5700e-003	0.2973	0.0784	1.4500e-003	0.0799		260.5527	260.5527	9.1800e-003	8.3500e-003	263.2700
Total	0.1143	0.0865	0.8979	2.5600e-003	0.2957	1.5700e-003	0.2973	0.0784	1.4500e-003	0.0799		260.5527	260.5527	9.1800e-003	8.3500e-003	263.2700

3.6 Architectural Coating - Interior - 2023

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	13.5574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	13.7490	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - Interior - 2023

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	0.1060	0.0762	0.8301	2.4800e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		253.7964	253.7964	8.3000e-003	7.7100e-003	256.3022
Total	0.1060	0.0762	0.8301	2.4800e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		253.7964	253.7964	8.3000e-003	7.7100e-003	256.3022

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	13.5574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	13.7490	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - Interior - 2023

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	0.1060	0.0762	0.8301	2.4800e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		253.7964	253.7964	8.3000e-003	7.7100e-003	256.3022
Total	0.1060	0.0762	0.8301	2.4800e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		253.7964	253.7964	8.3000e-003	7.7100e-003	256.3022

3.7 Paving - 2023

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.3367					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3694	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Paving - 2023

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	0.0442	0.0317	0.3459	1.0300e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		105.7485	105.7485	3.4600e-003	3.2100e-003	106.7926
Total	0.0442	0.0317	0.3459	1.0300e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		105.7485	105.7485	3.4600e-003	3.2100e-003	106.7926

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.3367					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3694	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Paving - 2023

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	0.0442	0.0317	0.3459	1.0300e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		105.7485	105.7485	3.4600e-003	3.2100e-003	106.7926
Total	0.0442	0.0317	0.3459	1.0300e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		105.7485	105.7485	3.4600e-003	3.2100e-003	106.7926

3.8 Architectural Coating - Exterior Bldg 1 - 2023

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	17.9722					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	18.1639	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Architectural Coating - Exterior Bldg 1 - 2023

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	0.1060	0.0762	0.8301	2.4800e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		253.7964	253.7964	8.3000e-003	7.7100e-003	256.3022
Total	0.1060	0.0762	0.8301	2.4800e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		253.7964	253.7964	8.3000e-003	7.7100e-003	256.3022

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	17.9722					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	18.1639	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 Architectural Coating - Exterior Bldg 1 - 2023

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	0.1060	0.0762	0.8301	2.4800e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		253.7964	253.7964	8.3000e-003	7.7100e-003	256.3022
Total	0.1060	0.0762	0.8301	2.4800e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		253.7964	253.7964	8.3000e-003	7.7100e-003	256.3022

3.9 Architectural Coating - Exterior Bldg 2 - 2023

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	39.1773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	39.3690	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 Architectural Coating - Exterior Bldg 2 - 2023

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	0.1060	0.0762	0.8301	2.4800e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		253.7964	253.7964	8.3000e-003	7.7100e-003	256.3022
Total	0.1060	0.0762	0.8301	2.4800e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		253.7964	253.7964	8.3000e-003	7.7100e-003	256.3022

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	39.1773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	39.3690	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.9 Architectural Coating - Exterior Bldg 2 - 2023****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	0.1060	0.0762	0.8301	2.4800e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		253.7964	253.7964	8.3000e-003	7.7100e-003	256.3022
Total	0.1060	0.0762	0.8301	2.4800e-003	0.2957	1.4900e-003	0.2972	0.0784	1.3700e-003	0.0798		253.7964	253.7964	8.3000e-003	7.7100e-003	256.3022

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

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9572	4.2823	29.8803	0.0560	5.6932	0.0476	5.7409	1.5169	0.0446	1.5615		5,747.0503	5,747.0503	0.4066	0.3107	5,849.7876
Unmitigated	2.9572	4.2823	29.8803	0.0560	5.6932	0.0476	5.7409	1.5169	0.0446	1.5615		5,747.0503	5,747.0503	0.4066	0.3107	5,849.7876

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	146.10	33.15	10.50	264,290	264,290
General Office Building	233.76	53.04	16.80	422,863	422,863
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	187.41	187.41	187.41	547,140	547,140
Refrigerated Warehouse-No Rail	426.97	426.97	426.97	1,246,538	1,246,538
Total	994.24	700.57	641.68	2,480,831	2,480,831

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	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
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.554526	0.053831	0.165930	0.132086	0.027621	0.006783	0.007681	0.014870	0.000982	0.000404	0.029673	0.000793	0.004819
Parking Lot	0.554526	0.053831	0.165930	0.132086	0.027621	0.006783	0.007681	0.014870	0.000982	0.000404	0.029673	0.000793	0.004819
Refrigerated Warehouse-No Rail	0.554526	0.053831	0.165930	0.132086	0.027621	0.006783	0.007681	0.014870	0.000982	0.000404	0.029673	0.000793	0.004819

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0510	0.4639	0.3897	2.7800e-003		0.0353	0.0353		0.0353	0.0353		556.7265	556.7265	0.0107	0.0102	560.0349
NaturalGas Unmitigated	0.0510	0.4639	0.3897	2.7800e-003		0.0353	0.0353		0.0353	0.0353		556.7265	556.7265	0.0107	0.0102	560.0349

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	1065.21	0.0115	0.1044	0.0877	6.3000e-004		7.9400e-003	7.9400e-003		7.9400e-003	7.9400e-003		125.3183	125.3183	2.4000e-003	2.3000e-003	126.0630
General Office Building	665.753	7.1800e-003	0.0653	0.0548	3.9000e-004		4.9600e-003	4.9600e-003		4.9600e-003	4.9600e-003		78.3239	78.3239	1.5000e-003	1.4400e-003	78.7894
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
Refrigerated Warehouse-No Rail	2085.73	0.0225	0.2045	0.1718	1.2300e-003		0.0155	0.0155		0.0155	0.0155		245.3802	245.3802	4.7000e-003	4.5000e-003	246.8384
Refrigerated Warehouse-No Rail	915.485	9.8700e-003	0.0898	0.0754	5.4000e-004		6.8200e-003	6.8200e-003		6.8200e-003	6.8200e-003		107.7041	107.7041	2.0600e-003	1.9700e-003	108.3441
Total		0.0510	0.4639	0.3897	2.7900e-003		0.0353	0.0353		0.0353	0.0353		556.7265	556.7265	0.0107	0.0102	560.0349

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
General Office Building	0.665753	7.1800e-003	0.0653	0.0548	3.9000e-004		4.9600e-003	4.9600e-003		4.9600e-003	4.9600e-003		78.3239	78.3239	1.5000e-003	1.4400e-003	78.7894
General Office Building	1.06521	0.0115	0.1044	0.0877	6.3000e-004		7.9400e-003	7.9400e-003		7.9400e-003	7.9400e-003		125.3183	125.3183	2.4000e-003	2.3000e-003	126.0630
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
Refrigerated Warehouse-No Rail	0.915485	9.8700e-003	0.0898	0.0754	5.4000e-004		6.8200e-003	6.8200e-003		6.8200e-003	6.8200e-003		107.7041	107.7041	2.0600e-003	1.9700e-003	108.3441
Refrigerated Warehouse-No Rail	2.08573	0.0225	0.2045	0.1718	1.2300e-003		0.0155	0.0155		0.0155	0.0155		245.3802	245.3802	4.7000e-003	4.5000e-003	246.8384
Total		0.0510	0.4639	0.3897	2.7900e-003		0.0353	0.0353		0.0353	0.0353		556.7265	556.7265	0.0107	0.0102	560.0349

6.0 Area Detail

6.1 Mitigation Measures Area

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	8.0352	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434
Unmitigated	8.0352	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434

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	0.9525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.0768					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8100e-003	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434
Total	8.0352	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434

Chadbourne Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.9525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.0768					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.8100e-003	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434
Total	8.0352	5.7000e-004	0.0628	0.0000		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		0.1346	0.1346	3.5000e-004		0.1434

7.0 Water Detail

7.1 Mitigation Measures Water

Chadbourn Industrial Center - Solano-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	15.00	1000sqft	0.34	15,000.00	0
General Office Building	24.00	1000sqft	0.55	24,000.00	0
Refrigerated Warehouse-No Rail	88.40	1000sqft	2.03	88,400.00	0
Refrigerated Warehouse-No Rail	201.40	1000sqft	4.62	201,400.00	0
Parking Lot	106.00	Space	0.95	42,400.00	0
Parking Lot	180.00	Space	1.62	72,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	56
Climate Zone	4			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Parking lot spaces required per the City of Fairfield, CA Municipal Code, Chapter 25, Section 25.34 - Parking and Loading.

Construction Phase -

Off-road Equipment -

Demolition - Measured on Google Earth Pro

Grading -

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	164,400.00	112,700.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	164,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	164,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	164,400.00	51,700.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	493,200.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	493,200.00	58,500.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	493,200.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	493,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	6,864.00	0.00
tblArchitecturalCoating	ConstArea_Parking	6,864.00	0.00
tblArchitecturalCoating	ConstArea_Parking	6,864.00	114,400.00
tblArchitecturalCoating	ConstArea_Parking	6,864.00	0.00

2.0 Emissions Summary

Chadbourne Industrial Center - Solano-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
2022	0.7391	3.0157	3.0079	7.4700e-003	0.4222	0.1291	0.5513	0.1236	0.1209	0.2445	0.0000	672.2675	672.2675	0.1000	0.0296	683.5945
2023	0.8275	0.9521	1.1916	2.8700e-003	0.0965	0.0400	0.1365	0.0262	0.0377	0.0638	0.0000	258.5762	258.5762	0.0339	0.0110	262.7046
Maximum	0.8275	3.0157	3.0079	7.4700e-003	0.4222	0.1291	0.5513	0.1236	0.1209	0.2445	0.0000	672.2675	672.2675	0.1000	0.0296	683.5945

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					
2022	0.7391	3.0157	3.0079	7.4700e-003	0.4222	0.1291	0.5513	0.1236	0.1209	0.2445	0.0000	672.2671	672.2671	0.1000	0.0296	683.5940
2023	0.8275	0.9521	1.1916	2.8700e-003	0.0965	0.0400	0.1365	0.0262	0.0377	0.0638	0.0000	258.5760	258.5760	0.0339	0.0110	262.7044
Maximum	0.8275	3.0157	3.0079	7.4700e-003	0.4222	0.1291	0.5513	0.1236	0.1209	0.2445	0.0000	672.2671	672.2671	0.1000	0.0296	683.5940

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2022	3-31-2022	1.1380	1.1380
2	4-1-2022	6-30-2022	1.1422	1.1422
3	7-1-2022	9-30-2022	0.7345	0.7345
4	10-1-2022	12-31-2022	0.7455	0.7455
5	1-1-2023	3-31-2023	0.8047	0.8047
6	4-1-2023	6-30-2023	0.7670	0.7670
7	7-1-2023	9-30-2023	0.2042	0.2042
		Highest	1.1422	1.1422

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	1.4659	5.0000e-005	5.6500e-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	9.3100e-003	0.0847	0.0711	5.1000e-004		6.4300e-003	6.4300e-003		6.4300e-003	6.4300e-003	0.0000	418.7279	418.7279	0.0546	8.0900e-003	422.5047
Mobile	0.4930	0.6687	4.5708	9.4400e-003	0.9201	7.9400e-003	0.9280	0.2458	7.4400e-003	0.2533	0.0000	879.2804	879.2804	0.0566	0.0448	894.0446
Waste						0.0000	0.0000		0.0000	0.0000	62.6593	0.0000	62.6593	3.7031	0.0000	155.2356
Water						0.0000	0.0000		0.0000	0.0000	23.4603	38.3975	61.8577	2.4158	0.0577	139.4321
Total	1.9682	0.7535	4.6476	9.9500e-003	0.9201	0.0144	0.9345	0.2458	0.0139	0.2597	86.1195	1,336.4168	1,422.5363	6.2301	0.1105	1,611.2288

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	1.4659	5.0000e-005	5.6500e-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	9.3100e-003	0.0847	0.0711	5.1000e-004		6.4300e-003	6.4300e-003		6.4300e-003	6.4300e-003	0.0000	418.7279	418.7279	0.0546	8.0900e-003	422.5047
Mobile	0.4930	0.6687	4.5708	9.4400e-003	0.9201	7.9400e-003	0.9280	0.2458	7.4400e-003	0.2533	0.0000	879.2804	879.2804	0.0566	0.0448	894.0446
Waste						0.0000	0.0000		0.0000	0.0000	62.6593	0.0000	62.6593	3.7031	0.0000	155.2356
Water						0.0000	0.0000		0.0000	0.0000	23.4603	38.3975	61.8577	2.4158	0.0577	139.4321
Total	1.9682	0.7535	4.6476	9.9500e-003	0.9201	0.0144	0.9345	0.2458	0.0139	0.2597	86.1195	1,336.4168	1,422.5363	6.2301	0.1105	1,611.2288

	ROG	NOx	CO	SO2	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	Demolition	Demolition	1/1/2022	1/28/2022	5	20	
2	Grading	Grading	1/29/2022	3/11/2022	5	30	
3	Building Construction	Building Construction	3/12/2022	5/5/2023	5	300	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4	Architectural Coating - Parking Lot Striping	Architectural Coating	5/20/2022	6/16/2022	5	20
5	Architectural Coating - Interior	Architectural Coating	3/1/2023	3/28/2023	5	20
6	Paving	Paving	4/22/2023	5/19/2023	5	20
7	Architectural Coating - Exterior Bldg 1	Architectural Coating	5/20/2023	6/16/2023	5	20
8	Architectural Coating - Exterior Bldg 2	Architectural Coating	6/17/2023	7/14/2023	5	20

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 90****Acres of Paving: 2.57****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 114,400 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0		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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Architectural Coating - Parking Lot Striping	Air Compressors	1	6.00	78	0.48
Architectural Coating - Interior	Air Compressors	1	6.00	78	0.48
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 - Exterior Bldg 1	Air Compressors	1	6.00	78	0.48
Architectural Coating - Exterior Bldg 2	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
Demolition	6	15.00	0.00	646.00	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	182.00	73.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Parking Lot Striping	1	36.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Interior	1	36.00	0.00	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 - Exterior Bldg 1	1	36.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Exterior Bldg 2	1	36.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0699	0.0000	0.0699	0.0106	0.0000	0.0106	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004	0.0699	0.0124	0.0823	0.0106	0.0116	0.0221	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

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	1.3100e-003	0.0505	0.0103	2.0000e-004	5.5000e-003	4.9000e-004	5.9900e-003	1.5100e-003	4.7000e-004	1.9800e-003	0.0000	19.2408	19.2408	1.2000e-004	3.0300e-003	20.1456
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	4.5000e-004	3.2000e-004	3.6000e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9997	0.9997	3.0000e-005	3.0000e-005	1.0092
Total	1.7600e-003	0.0508	0.0139	2.1000e-004	6.6900e-003	5.0000e-004	7.1900e-003	1.8300e-003	4.8000e-004	2.3000e-003	0.0000	20.2405	20.2405	1.5000e-004	3.0600e-003	21.1548

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0699	0.0000	0.0699	0.0106	0.0000	0.0106	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004	0.0699	0.0124	0.0823	0.0106	0.0116	0.0221	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

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	1.3100e-003	0.0505	0.0103	2.0000e-004	5.5000e-003	4.9000e-004	5.9900e-003	1.5100e-003	4.7000e-004	1.9800e-003	0.0000	19.2408	19.2408	1.2000e-004	3.0300e-003	20.1456
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	4.5000e-004	3.2000e-004	3.6000e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9997	0.9997	3.0000e-005	3.0000e-005	1.0092
Total	1.7600e-003	0.0508	0.0139	2.1000e-004	6.6900e-003	5.0000e-004	7.1900e-003	1.8300e-003	4.8000e-004	2.3000e-003	0.0000	20.2405	20.2405	1.5000e-004	3.0600e-003	21.1548

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1381	0.0000	0.1381	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5827	0.4356	9.3000e-004		0.0245	0.0245		0.0226	0.0226	0.0000	81.8019	81.8019	0.0265	0.0000	82.4633
Total	0.0544	0.5827	0.4356	9.3000e-004	0.1381	0.0245	0.1626	0.0548	0.0226	0.0774	0.0000	81.8019	81.8019	0.0265	0.0000	82.4633

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	9.0000e-004	6.4000e-004	7.2000e-003	2.0000e-005	2.3800e-003	1.0000e-005	2.4000e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.9994	1.9994	6.0000e-005	6.0000e-005	2.0183
Total	9.0000e-004	6.4000e-004	7.2000e-003	2.0000e-005	2.3800e-003	1.0000e-005	2.4000e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.9994	1.9994	6.0000e-005	6.0000e-005	2.0183

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1381	0.0000	0.1381	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5827	0.4356	9.3000e-004		0.0245	0.0245		0.0226	0.0226	0.0000	81.8018	81.8018	0.0265	0.0000	82.4632
Total	0.0544	0.5827	0.4356	9.3000e-004	0.1381	0.0245	0.1626	0.0548	0.0226	0.0774	0.0000	81.8018	81.8018	0.0265	0.0000	82.4632

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	9.0000e-004	6.4000e-004	7.2000e-003	2.0000e-005	2.3800e-003	1.0000e-005	2.4000e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.9994	1.9994	6.0000e-005	6.0000e-005	2.0183
Total	9.0000e-004	6.4000e-004	7.2000e-003	2.0000e-005	2.3800e-003	1.0000e-005	2.4000e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.9994	1.9994	6.0000e-005	6.0000e-005	2.0183

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1792	1.6396	1.7182	2.8300e-003		0.0850	0.0850		0.0799	0.0799	0.0000	243.3115	243.3115	0.0583	0.0000	244.7688
Total	0.1792	1.6396	1.7182	2.8300e-003		0.0850	0.0850		0.0799	0.0799	0.0000	243.3115	243.3115	0.0583	0.0000	244.7688

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	0.0187	0.4290	0.1416	1.6600e-003	0.0506	5.0000e-003	0.0556	0.0146	4.7800e-003	0.0194	0.0000	158.6127	158.6127	1.2200e-003	0.0227	165.4131
Worker	0.0570	0.0409	0.4587	1.3800e-003	0.1518	8.4000e-004	0.1526	0.0404	7.7000e-004	0.0411	0.0000	127.3589	127.3589	4.0600e-003	3.7200e-003	128.5679
Total	0.0757	0.4699	0.6003	3.0400e-003	0.2023	5.8400e-003	0.2081	0.0550	5.5500e-003	0.0605	0.0000	285.9716	285.9716	5.2800e-003	0.0264	293.9809

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1792	1.6396	1.7182	2.8300e-003		0.0850	0.0850		0.0799	0.0799	0.0000	243.3112	243.3112	0.0583	0.0000	244.7685
Total	0.1792	1.6396	1.7182	2.8300e-003		0.0850	0.0850		0.0799	0.0799	0.0000	243.3112	243.3112	0.0583	0.0000	244.7685

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	0.0187	0.4290	0.1416	1.6600e-003	0.0506	5.0000e-003	0.0556	0.0146	4.7800e-003	0.0194	0.0000	158.6127	158.6127	1.2200e-003	0.0227	165.4131
Worker	0.0570	0.0409	0.4587	1.3800e-003	0.1518	8.4000e-004	0.1526	0.0404	7.7000e-004	0.0411	0.0000	127.3589	127.3589	4.0600e-003	3.7200e-003	128.5679
Total	0.0757	0.4699	0.6003	3.0400e-003	0.2023	5.8400e-003	0.2081	0.0550	5.5500e-003	0.0605	0.0000	285.9716	285.9716	5.2800e-003	0.0264	293.9809

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

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	0.0708	0.6473	0.7310	1.2100e-003		0.0315	0.0315		0.0296	0.0296	0.0000	104.3121	104.3121	0.0248	0.0000	104.9325
Total	0.0708	0.6473	0.7310	1.2100e-003		0.0315	0.0315		0.0296	0.0296	0.0000	104.3121	104.3121	0.0248	0.0000	104.9325

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	4.2000e-003	0.1461	0.0518	6.8000e-004	0.0217	9.2000e-004	0.0226	6.2600e-003	8.8000e-004	7.1400e-003	0.0000	65.4275	65.4275	3.6000e-004	9.3200e-003	68.2126
Worker	0.0226	0.0154	0.1814	5.7000e-004	0.0650	3.4000e-004	0.0654	0.0173	3.1000e-004	0.0176	0.0000	53.1653	53.1653	1.5700e-003	1.4700e-003	53.6432
Total	0.0268	0.1615	0.2332	1.2500e-003	0.0867	1.2600e-003	0.0880	0.0236	1.1900e-003	0.0248	0.0000	118.5929	118.5929	1.9300e-003	0.0108	121.8558

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3.4 Building Construction - 2023

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	0.0708	0.6473	0.7310	1.2100e-003		0.0315	0.0315		0.0296	0.0296	0.0000	104.3120	104.3120	0.0248	0.0000	104.9324
Total	0.0708	0.6473	0.7310	1.2100e-003		0.0315	0.0315		0.0296	0.0296	0.0000	104.3120	104.3120	0.0248	0.0000	104.9324

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	4.2000e-003	0.1461	0.0518	6.8000e-004	0.0217	9.2000e-004	0.0226	6.2600e-003	8.8000e-004	7.1400e-003	0.0000	65.4275	65.4275	3.6000e-004	9.3200e-003	68.2126
Worker	0.0226	0.0154	0.1814	5.7000e-004	0.0650	3.4000e-004	0.0654	0.0173	3.1000e-004	0.0176	0.0000	53.1653	53.1653	1.5700e-003	1.4700e-003	53.6432
Total	0.0268	0.1615	0.2332	1.2500e-003	0.0867	1.2600e-003	0.0880	0.0236	1.1900e-003	0.0248	0.0000	118.5929	118.5929	1.9300e-003	0.0108	121.8558

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - Parking Lot Striping - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3977					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	0.3997	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

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	1.0700e-003	7.7000e-004	8.6400e-003	3.0000e-005	2.8600e-003	2.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3992	2.3992	8.0000e-005	7.0000e-005	2.4220
Total	1.0700e-003	7.7000e-004	8.6400e-003	3.0000e-005	2.8600e-003	2.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3992	2.3992	8.0000e-005	7.0000e-005	2.4220

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Architectural Coating - Parking Lot Striping - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3977					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	0.3997	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

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	1.0700e-003	7.7000e-004	8.6400e-003	3.0000e-005	2.8600e-003	2.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3992	2.3992	8.0000e-005	7.0000e-005	2.4220
Total	1.0700e-003	7.7000e-004	8.6400e-003	3.0000e-005	2.8600e-003	2.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3992	2.3992	8.0000e-005	7.0000e-005	2.4220

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - Interior - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1356					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	0.1375	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571

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	9.9000e-004	6.8000e-004	7.9700e-003	3.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3369	2.3369	7.0000e-005	6.0000e-005	2.3579
Total	9.9000e-004	6.8000e-004	7.9700e-003	3.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3369	2.3369	7.0000e-005	6.0000e-005	2.3579

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3.6 Architectural Coating - Interior - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1356					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	0.1375	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571

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	9.9000e-004	6.8000e-004	7.9700e-003	3.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3369	2.3369	7.0000e-005	6.0000e-005	2.3579
Total	9.9000e-004	6.8000e-004	7.9700e-003	3.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3369	2.3369	7.0000e-005	6.0000e-005	2.3579

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3.7 Paving - 2023

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	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888
Paving	3.3700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0137	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	2.8000e-004	3.3200e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9737	0.9737	3.0000e-005	3.0000e-005	0.9825
Total	4.1000e-004	2.8000e-004	3.3200e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9737	0.9737	3.0000e-005	3.0000e-005	0.9825

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3.7 Paving - 2023

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	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888
Paving	3.3700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0137	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	2.8000e-004	3.3200e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9737	0.9737	3.0000e-005	3.0000e-005	0.9825
Total	4.1000e-004	2.8000e-004	3.3200e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9737	0.9737	3.0000e-005	3.0000e-005	0.9825

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3.8 Architectural Coating - Exterior Bldg 1 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1797					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	0.1816	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571

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	9.9000e-004	6.8000e-004	7.9700e-003	3.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3369	2.3369	7.0000e-005	6.0000e-005	2.3579
Total	9.9000e-004	6.8000e-004	7.9700e-003	3.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3369	2.3369	7.0000e-005	6.0000e-005	2.3579

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3.8 Architectural Coating - Exterior Bldg 1 - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1797					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	0.1816	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571

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	9.9000e-004	6.8000e-004	7.9700e-003	3.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3369	2.3369	7.0000e-005	6.0000e-005	2.3579
Total	9.9000e-004	6.8000e-004	7.9700e-003	3.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3369	2.3369	7.0000e-005	6.0000e-005	2.3579

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3.9 Architectural Coating - Exterior Bldg 2 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3918					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	0.3937	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571

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	9.9000e-004	6.8000e-004	7.9700e-003	3.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3369	2.3369	7.0000e-005	6.0000e-005	2.3579
Total	9.9000e-004	6.8000e-004	7.9700e-003	3.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3369	2.3369	7.0000e-005	6.0000e-005	2.3579

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3.9 Architectural Coating - Exterior Bldg 2 - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3918					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	0.3937	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571

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	9.9000e-004	6.8000e-004	7.9700e-003	3.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3369	2.3369	7.0000e-005	6.0000e-005	2.3579
Total	9.9000e-004	6.8000e-004	7.9700e-003	3.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.3369	2.3369	7.0000e-005	6.0000e-005	2.3579

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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	tons/yr										MT/yr					
Mitigated	0.4930	0.6687	4.5708	9.4400e-003	0.9201	7.9400e-003	0.9280	0.2458	7.4400e-003	0.2533	0.0000	879.2804	879.2804	0.0566	0.0448	894.0446
Unmitigated	0.4930	0.6687	4.5708	9.4400e-003	0.9201	7.9400e-003	0.9280	0.2458	7.4400e-003	0.2533	0.0000	879.2804	879.2804	0.0566	0.0448	894.0446

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	146.10	33.15	10.50	264,290	264,290
General Office Building	233.76	53.04	16.80	422,863	422,863
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	187.41	187.41	187.41	547,140	547,140
Refrigerated Warehouse-No Rail	426.97	426.97	426.97	1,246,538	1,246,538
Total	994.24	700.57	641.68	2,480,831	2,480,831

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

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	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	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
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3
Refrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.554526	0.053831	0.165930	0.132086	0.027621	0.006783	0.007681	0.014870	0.000982	0.000404	0.029673	0.000793	0.004819
Parking Lot	0.554526	0.053831	0.165930	0.132086	0.027621	0.006783	0.007681	0.014870	0.000982	0.000404	0.029673	0.000793	0.004819
Refrigerated Warehouse-No Rail	0.554526	0.053831	0.165930	0.132086	0.027621	0.006783	0.007681	0.014870	0.000982	0.000404	0.029673	0.000793	0.004819

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	326.5556	326.5556	0.0528	6.4000e-003	329.7847
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	326.5556	326.5556	0.0528	6.4000e-003	329.7847
NaturalGas Mitigated	9.3100e-003	0.0847	0.0711	5.1000e-004		6.4300e-003	6.4300e-003		6.4300e-003	6.4300e-003	0.0000	92.1723	92.1723	1.7700e-003	1.6900e-003	92.7201
NaturalGas Unmitigated	9.3100e-003	0.0847	0.0711	5.1000e-004		6.4300e-003	6.4300e-003		6.4300e-003	6.4300e-003	0.0000	92.1723	92.1723	1.7700e-003	1.6900e-003	92.7201

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	243000	1.3100e-003	0.0119	0.0100	7.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	12.9674	12.9674	2.5000e-004	2.4000e-004	13.0445
General Office Building	388800	2.1000e-003	0.0191	0.0160	1.1000e-004		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	20.7479	20.7479	4.0000e-004	3.8000e-004	20.8711
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	334152	1.8000e-003	0.0164	0.0138	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.8316	17.8316	3.4000e-004	3.3000e-004	17.9376
Refrigerated Warehouse-No Rail	761292	4.1100e-003	0.0373	0.0314	2.2000e-004		2.8400e-003	2.8400e-003		2.8400e-003	2.8400e-003	0.0000	40.6254	40.6254	7.8000e-004	7.4000e-004	40.8669
Total		9.3200e-003	0.0847	0.0711	5.0000e-004		6.4400e-003	6.4400e-003		6.4400e-003	6.4400e-003	0.0000	92.1723	92.1723	1.7700e-003	1.6900e-003	92.7201

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	388800	2.1000e-003	0.0191	0.0160	1.1000e-004		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	20.7479	20.7479	4.0000e-004	3.8000e-004	20.8711
General Office Building	243000	1.3100e-003	0.0119	0.0100	7.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	12.9674	12.9674	2.5000e-004	2.4000e-004	13.0445
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	334152	1.8000e-003	0.0164	0.0138	1.0000e-004		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	17.8316	17.8316	3.4000e-004	3.3000e-004	17.9376
Refrigerated Warehouse-No Rail	761292	4.1100e-003	0.0373	0.0314	2.2000e-004		2.8400e-003	2.8400e-003		2.8400e-003	2.8400e-003	0.0000	40.6254	40.6254	7.8000e-004	7.4000e-004	40.8669
Total		9.3200e-003	0.0847	0.0711	5.0000e-004		6.4400e-003	6.4400e-003		6.4400e-003	6.4400e-003	0.0000	92.1723	92.1723	1.7700e-003	1.6900e-003	92.7201

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	257550	23.8295	3.8600e-003	4.7000e-004	24.0651
General Office Building	412080	38.1272	6.1700e-003	7.5000e-004	38.5042
Parking Lot	14840	1.3731	2.2000e-004	3.0000e-005	1.3866
Parking Lot	25200	2.3316	3.8000e-004	5.0000e-005	2.3547
Refrigerated Warehouse-No Rail	1.95962e+006	181.3116	0.0293	3.5600e-003	183.1045
Refrigerated Warehouse-No Rail	860132	79.5827	0.0129	1.5600e-003	80.3696
Total		326.5556	0.0528	6.4200e-003	329.7847

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	257550	23.8295	3.8600e-003	4.7000e-004	24.0651
General Office Building	412080	38.1272	6.1700e-003	7.5000e-004	38.5042
Parking Lot	14840	1.3731	2.2000e-004	3.0000e-005	1.3866
Parking Lot	25200	2.3316	3.8000e-004	5.0000e-005	2.3547
Refrigerated Warehouse-No Rail	1.95962e+006	181.3116	0.0293	3.5600e-003	183.1045
Refrigerated Warehouse-No Rail	860132	79.5827	0.0129	1.5600e-003	80.3696
Total		326.5556	0.0528	6.4200e-003	329.7847

6.0 Area Detail**6.1 Mitigation Measures Area**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	1.4659	5.0000e-005	5.6500e-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	1.4659	5.0000e-005	5.6500e-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	0.1738					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2915					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	5.6500e-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
Total	1.4659	5.0000e-005	5.6500e-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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.1738					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2915					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	5.6500e-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
Total	1.4659	5.0000e-005	5.6500e-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

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	61.8577	2.4158	0.0577	139.4321
Unmitigated	61.8577	2.4158	0.0577	139.4321

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	6.93162 / 4.24841	7.0451	0.2267	5.4300e-003	14.3290
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	67.0162 / 0	54.8126	2.1892	0.0522	125.1031
Total		61.8577	2.4158	0.0577	139.4321

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	6.93162 / 4.24841	7.0451	0.2267	5.4300e-003	14.3290
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	67.0162 / 0	54.8126	2.1892	0.0522	125.1031
Total		61.8577	2.4158	0.0577	139.4321

8.0 Waste Detail

8.1 Mitigation Measures Waste

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	62.6593	3.7031	0.0000	155.2356
Unmitigated	62.6593	3.7031	0.0000	155.2356

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	36.27	7.3625	0.4351	0.0000	18.2402
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	272.41	55.2968	3.2680	0.0000	136.9954
Total		62.6593	3.7031	0.0000	155.2356

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	36.27	7.3625	0.4351	0.0000	18.2402
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	272.41	55.2968	3.2680	0.0000	136.9954
Total		62.6593	3.7031	0.0000	155.2356

9.0 Operational Offroad

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

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

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

Equipment Type	Number
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11.0 Vegetation
