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January 31, 2023

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## **RE: Terrano II Multi-Family Development at Dos Lagos GHG Letter – City of Corona**

Planning Area 1 of the Dos Lagos Specific Plan was entitled in 2018 and included a 276-unit apartment complex, a 107 room hotel, 6,100 square-feet (SF) of commercial uses, 10,300 SF of restaurant uses (4,000 SF quality restaurant use and 6,300 SF high-turnover sit-down restaurant use), and a 20-fueling position gas station with convenience store and car wash, of which the apartment complex, hotel, and gas station are completed and opened.

The entitled 6,100 SF of commercial uses and the 10,300 SF of restaurant uses have not been constructed and a 2.96 acre undeveloped parcel remains within Planning Area 1. The proposed Project seeks to modify Planning Area 1 of the Dos Lagos Specific Plan and construct a 50-unit multi-family apartment development.

The purpose of this Greenhouse Gas (GHG) letter is to analyze the Project's GHG emissions and evaluate its conformance with the City of Corona's Climate Action Plan (CAP). As described in the City's CAP, there is an existing framework of federal, State, regional, and local policies and regulations that identify GHG reduction requirements within the State. The CAP provides a plan for the City to meet these requirements and achieve local reduction requirements outlined in the CAP (City of Corona, 2019). In addition, showing consistency with the CAP would also demonstrate that the proposed Project would have a less than significant impact under the California Environmental Quality Act (CEQA).

The City of Corona guidelines for determining significance for GHGs under CEQA are identified in the CEQA Thresholds and Screening Tables prepared for the City of Corona by LSA in 2019. Under this methodology, projects could demonstrate compliance with the City's Climate Action Plan (CAP) by indicating how the project would achieve 100 points based on the City's screening checklist guidance. Upon achieving 100 points, the project would equally be screened out with respect to GHG and have a less than significant impact under CEQA. The City's screening tables give initial guidance for mitigating significance though does not specifically include a numerical screening threshold (City of Corona, 2019). The intent of achieving points essentially is to

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implement project features to reduce energy consumption or improve the building's envelope to reduce energy losses.

Since the overall goal of the City's CAP is to reduce GHG emissions within the City of Corona, reducing GHG intensity from an approved land use would also ensure the City's GHG inventories are reduced. This letter compares GHG emissions which could be expected should buildout of the remaining SP land uses are constructed and operated with the proposed multi-family residential project. If the proposed Project reduces GHG emission intensity for the remaining 2.96 acre buildout area, the project would have a less than significant GHG impact under CEQA.

GHG emissions from daily operations which would include sources such as Area, Energy, Mobile, Waste and Water uses. Area Sources include usage of consumer products, landscaping and architectural coatings as part of regular maintenance. Energy sources would be from uses such as electricity and natural gas. Solid waste generated in the form of trash is also considered as decomposition of organic material breaks down to form GHGs. GHGs from water are also indirectly generated through the conveyance of the resource via pumping throughout the state and as necessary for wastewater treatment. Finally, the project would also generate air quality emissions and GHG through the use of carbon fuel burning vehicles for transportation. Traffic Generation for the 50 unit apartment project was estimated to be 337 average daily trips (ADT) (LL&G, 2023) while the entitled SP project would generate 1,075 ADT (LL&G, 2023).

GHG impacts related to construction and daily operations for both the entitled development remaining and proposed multi-family developments were calculated using the latest CalEEMod 2020.4.0 air quality and GHG model, which was developed by Breeze Software for South Coast Air Quality Management District (SCAQMD) in 2021. The City of Corona recognizes the CalEEMod Version 2020.4.0 as an acceptable model for projects of this nature. Construction emissions for the site would essential be the same though minimal insignificant variation of GHG Emissions is expected. Given this, only yearly operational emissions are quantified in this analysis and presented for comparison. These models are provided as ***Attachments A and -B*** to this letter.

### **Entitled Commercial and Restaurant Operational Emissions**

As previously discussed, the remainder development at Dos Lagos Planning Area 1 allows for the construction of 6,100 square-feet (SF) of commercial uses and 10,300 SF of restaurant uses (4,000 SF quality restaurant use and 6,300 SF high-turnover sit-down restaurant use). GHG emissions generated from this land use scenario are shown in Table 1 below and include emissions from default Area, Energy, Solid Waste and Water sources. Mobile emissions were manually updated utilizing scenario based ADT provided by the Project Traffic Engineer (LL&G, 2023). The CalEEMod output for this scenario is provided as ***Attachment A*** to this letter.

**Table 1: Expected Operational Emissions Summary -Entitled Project - MT/Year**

Year	Bio-CO <sub>2</sub>	NBio-CO <sub>2</sub>	Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
Area	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.00	245.24	245.24	0.01	0.00	246.63
Mobile	0.00	736.78	736.78	0.04	0.04	749.54
Waste	17.11	0.00	17.11	1.01	0.00	42.39
Water	1.34	11.43	12.76	0.14	0.00	17.22
<b>Total Operations</b>	<b>18.45</b>	<b>993.45</b>	<b>1,011.89</b>	<b>1.20</b>	<b>0.04</b>	<b>1,055.78</b>

Expected Construction emissions are based upon CalEEMod 2020.4.0 modeling assumptions for equipment and durations listed in Table 1 above.  
 CalEEMod annual output is attached to this letter.  
 Data is presented in decimal format and may have rounding errors.

**Proposed 50-Unit Multi-Family Apartments Operational Emissions**

The Proposed project seeks to modify Dos Lagos Planning Area 1 and instead construct a 50-unit multi-family apartment complex. GHG emissions generated from this land use scenario are shown in Table 2 below and include emissions from default Area, Energy, Solid Waste and Water sources. Mobile emissions were manually updated utilizing scenario-based ADT provided by the Project Traffic Engineer (LL&G, 2023). The CalEEMod output for this scenario is Provided as **Attachment B** to this letter.

**Table 2: Expected Operational Emissions Summary – Proposed Project - MT/Year**

Year	Bio-CO <sub>2</sub>	NBio-CO <sub>2</sub>	Total CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
Area	0.00	0.84	0.84	0.00	0.00	0.86
Energy	0.00	78.70	78.70	0.00	0.00	79.14
Mobile	0.00	375.11	375.11	0.02	0.02	380.97
Waste	4.67	0.00	4.67	0.28	0.00	11.57
Water	1.03	11.57	12.60	0.11	0.00	16.06
<b>Total Operations</b>	<b>5.70</b>	<b>466.22</b>	<b>471.92</b>	<b>0.41</b>	<b>0.02</b>	<b>488.60</b>

Expected Construction emissions are based upon CalEEMod 2020.4.0 modeling assumptions for equipment and durations listed in Table 1 above.  
 CalEEMod annual output is attached to this letter.  
 Data is presented in decimal format and may have rounding errors.

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Based upon the operations emissions modeling as calculated by CalEEMod, the proposed project would generally reduce GHG emissions by 53.7% compared to what would have been otherwise assumed for the 2.96 acre development site. This is largely due to the fact that the commercial and restaurant uses entitled would have a higher energy demand and would generate more traffic as identified by the Project Traffic Engineer. Since the Project would reduce GHG emissions by over half, the proposed Project action would have a less than significant impact on Climate Change and would be consistent with the goals and intent to reduce the City's GHG emissions spelled out in the City's CAP. Based on this, the project would not be required to implement GHG design features beyond those required by local state and City regulations. Therefore, the project would be considered less than significant for GHG emissions.

If you have any questions, please do not hesitate to contact me directly at (760) 473-1253.

Sincerely,  
Ldn Consulting, Inc.



Jeremy Loudon

**Attachment A:** CalEEMod Model Results (Entitled Commercial and Restaurant Uses)

**Attachment B:** CalEEMod Model Results (Proposed Project)

**References:**

City of Corona. (2019). *City of Corona - Climate Action Plan Update*. Corona. Retrieved from <https://www.coronaca.gov/home/showpublisheddocument?id=18422>

LL&G. (2023). *Traffic Circuation Assessment for the Proposed Terrano II Apartments at Dos Lagos*.

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

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

**Planning Area 1 Commercial and Restaurant SP Scenario  
Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	6.10	1000sqft	1.00	6,100.00	0
Quality Restaurant	4.00	1000sqft	0.96	4,000.00	0
High Turnover (Sit Down Restaurant)	6.30	1000sqft	1.00	6,300.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2025
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -  
 Land Use - 2.96 Acres  
 Construction Phase -  
 Off-road Equipment -  
 Grading -  
 Vehicle Trips - Trip Generation is 65.54 per 1000 sf per Traffic Study... 16.4 KSF yields 1,075 trips

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

**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
tblConstructionPhase	PhaseEndDate	12/12/2024	11/28/2024
tblConstructionPhase	PhaseStartDate	11/29/2024	11/15/2024
tblLandUse	LotAcreage	0.14	1.00
tblLandUse	LotAcreage	0.09	0.96
tblLandUse	LotAcreage	0.14	1.00
tblVehicleTrips	ST_TR	2.21	65.54
tblVehicleTrips	ST_TR	122.40	65.54
tblVehicleTrips	ST_TR	90.04	65.54
tblVehicleTrips	SU_TR	0.70	65.54
tblVehicleTrips	SU_TR	142.64	65.54
tblVehicleTrips	SU_TR	71.97	65.54
tblVehicleTrips	WD_TR	9.74	65.54
tblVehicleTrips	WD_TR	112.18	65.54
tblVehicleTrips	WD_TR	83.84	65.54

**2.0 Emissions Summary**

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Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2024	3-31-2024	0.4657	0.4657
2	4-1-2024	6-30-2024	0.4730	0.4730
3	7-1-2024	9-30-2024	0.4782	0.4782
		Highest	0.4782	0.4782

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0669	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.1000e-004	4.1000e-004	0.0000	0.0000	4.3000e-004
Energy	0.0153	0.1387	0.1165	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	245.2437	245.2437	0.0109	3.7300e-003	246.6272
Mobile	0.4071	0.5484	3.5590	7.7800e-003	0.8409	6.4500e-003	0.8474	0.2246	6.0400e-003	0.2307	0.0000	736.7786	736.7786	0.0436	0.0392	749.5443
Waste						0.0000	0.0000		0.0000	0.0000	17.1101	0.0000	17.1101	1.0112	0.0000	42.3896
Water						0.0000	0.0000		0.0000	0.0000	1.3358	11.4256	12.7614	0.1382	3.3600e-003	17.2158
<b>Total</b>	<b>0.4892</b>	<b>0.6870</b>	<b>3.6757</b>	<b>8.6100e-003</b>	<b>0.8409</b>	<b>0.0170</b>	<b>0.8579</b>	<b>0.2246</b>	<b>0.0166</b>	<b>0.2412</b>	<b>18.4459</b>	<b>993.4483</b>	<b>1,011.8942</b>	<b>1.2038</b>	<b>0.0463</b>	<b>1,055.7773</b>

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

**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	0.0669	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.1000e-004	4.1000e-004	0.0000	0.0000	4.3000e-004
Energy	0.0153	0.1387	0.1165	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	245.2437	245.2437	0.0109	3.7300e-003	246.6272
Mobile	0.4071	0.5484	3.5590	7.7800e-003	0.8409	6.4500e-003	0.8474	0.2246	6.0400e-003	0.2307	0.0000	736.7786	736.7786	0.0436	0.0392	749.5443
Waste						0.0000	0.0000		0.0000	0.0000	17.1101	0.0000	17.1101	1.0112	0.0000	42.3896
Water						0.0000	0.0000		0.0000	0.0000	1.3358	11.4256	12.7614	0.1382	3.3600e-003	17.2158
<b>Total</b>	<b>0.4892</b>	<b>0.6870</b>	<b>3.6757</b>	<b>8.6100e-003</b>	<b>0.8409</b>	<b>0.0170</b>	<b>0.8579</b>	<b>0.2246</b>	<b>0.0166</b>	<b>0.2412</b>	<b>18.4459</b>	<b>993.4483</b>	<b>1,011.8942</b>	<b>1.2038</b>	<b>0.0463</b>	<b>1,055.7773</b>

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

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2024	1/3/2024	5	3	
2	Grading	Grading	1/4/2024	1/11/2024	5	6	
3	Building Construction	Building Construction	1/12/2024	11/14/2024	5	220	

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

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

4	Paving	Paving	11/15/2024	11/28/2024	5	10
5	Architectural Coating	Architectural Coating	11/15/2024	11/28/2024	5	10

**Acres of Grading (Site Preparation Phase): 1.5**

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 24,600; Non-Residential Outdoor: 8,200; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

**Trips and VMT**

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	6.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2000e-004	8.1300e-003	5.4200e-003	1.0000e-005		2.9000e-004	2.9000e-004		2.7000e-004	2.7000e-004	0.0000	1.2309	1.2309	4.0000e-004	0.0000	1.2409
<b>Total</b>	<b>7.2000e-004</b>	<b>8.1300e-003</b>	<b>5.4200e-003</b>	<b>1.0000e-005</b>	<b>8.0000e-004</b>	<b>2.9000e-004</b>	<b>1.0900e-003</b>	<b>9.0000e-005</b>	<b>2.7000e-004</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.2309</b>	<b>1.2309</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.2409</b>

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

**3.2 Site Preparation - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0620	0.0620	0.0000	0.0000	0.0625
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0625</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2000e-004	8.1300e-003	5.4200e-003	1.0000e-005		2.9000e-004	2.9000e-004		2.7000e-004	2.7000e-004	0.0000	1.2309	1.2309	4.0000e-004	0.0000	1.2409
<b>Total</b>	<b>7.2000e-004</b>	<b>8.1300e-003</b>	<b>5.4200e-003</b>	<b>1.0000e-005</b>	<b>8.0000e-004</b>	<b>2.9000e-004</b>	<b>1.0900e-003</b>	<b>9.0000e-005</b>	<b>2.7000e-004</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.2309</b>	<b>1.2309</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.2409</b>

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**3.2 Site Preparation - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0620	0.0620	0.0000	0.0000	0.0625
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0625</b>

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-003	0.0415	0.0261	6.0000e-005		1.7200e-003	1.7200e-003		1.5800e-003	1.5800e-003	0.0000	5.4311	5.4311	1.7600e-003	0.0000	5.4750
<b>Total</b>	<b>3.9000e-003</b>	<b>0.0415</b>	<b>0.0261</b>	<b>6.0000e-005</b>	<b>0.0213</b>	<b>1.7200e-003</b>	<b>0.0230</b>	<b>0.0103</b>	<b>1.5800e-003</b>	<b>0.0119</b>	<b>0.0000</b>	<b>5.4311</b>	<b>5.4311</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4750</b>

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

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

**3.3 Grading - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.8000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2478	0.2478	1.0000e-005	1.0000e-005	0.2498
<b>Total</b>	<b>9.0000e-005</b>	<b>6.0000e-005</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2478</b>	<b>0.2478</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2498</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-003	0.0415	0.0261	6.0000e-005		1.7200e-003	1.7200e-003		1.5800e-003	1.5800e-003	0.0000	5.4311	5.4311	1.7600e-003	0.0000	5.4750
<b>Total</b>	<b>3.9000e-003</b>	<b>0.0415</b>	<b>0.0261</b>	<b>6.0000e-005</b>	<b>0.0213</b>	<b>1.7200e-003</b>	<b>0.0230</b>	<b>0.0103</b>	<b>1.5800e-003</b>	<b>0.0119</b>	<b>0.0000</b>	<b>5.4311</b>	<b>5.4311</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4750</b>

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

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

**3.3 Grading - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.8000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2478	0.2478	1.0000e-005	1.0000e-005	0.2498
<b>Total</b>	<b>9.0000e-005</b>	<b>6.0000e-005</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2478</b>	<b>0.2478</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2498</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1757	1.4106	1.5510	2.7500e-003		0.0592	0.0592		0.0567	0.0567	0.0000	228.4853	228.4853	0.0426	0.0000	229.5492
<b>Total</b>	<b>0.1757</b>	<b>1.4106</b>	<b>1.5510</b>	<b>2.7500e-003</b>		<b>0.0592</b>	<b>0.0592</b>		<b>0.0567</b>	<b>0.0567</b>	<b>0.0000</b>	<b>228.4853</b>	<b>228.4853</b>	<b>0.0426</b>	<b>0.0000</b>	<b>229.5492</b>

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

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

**3.4 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5000e-004	0.0113	4.4600e-003	6.0000e-005	2.0800e-003	9.0000e-005	2.1800e-003	6.0000e-004	9.0000e-005	6.9000e-004	0.0000	5.4667	5.4667	6.0000e-005	8.1000e-004	5.7087
Worker	2.0000e-003	1.4100e-003	0.0194	6.0000e-005	7.2500e-003	3.0000e-005	7.2900e-003	1.9300e-003	3.0000e-005	1.9600e-003	0.0000	5.4520	5.4520	1.2000e-004	1.4000e-004	5.4956
<b>Total</b>	<b>2.3500e-003</b>	<b>0.0127</b>	<b>0.0239</b>	<b>1.2000e-004</b>	<b>9.3300e-003</b>	<b>1.2000e-004</b>	<b>9.4700e-003</b>	<b>2.5300e-003</b>	<b>1.2000e-004</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>10.9187</b>	<b>10.9187</b>	<b>1.8000e-004</b>	<b>9.5000e-004</b>	<b>11.2043</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1757	1.4106	1.5510	2.7500e-003		0.0592	0.0592		0.0567	0.0567	0.0000	228.4851	228.4851	0.0426	0.0000	229.5489
<b>Total</b>	<b>0.1757</b>	<b>1.4106</b>	<b>1.5510</b>	<b>2.7500e-003</b>		<b>0.0592</b>	<b>0.0592</b>		<b>0.0567</b>	<b>0.0567</b>	<b>0.0000</b>	<b>228.4851</b>	<b>228.4851</b>	<b>0.0426</b>	<b>0.0000</b>	<b>229.5489</b>

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

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

**3.4 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5000e-004	0.0113	4.4600e-003	6.0000e-005	2.0800e-003	9.0000e-005	2.1800e-003	6.0000e-004	9.0000e-005	6.9000e-004	0.0000	5.4667	5.4667	6.0000e-005	8.1000e-004	5.7087
Worker	2.0000e-003	1.4100e-003	0.0194	6.0000e-005	7.2500e-003	3.0000e-005	7.2900e-003	1.9300e-003	3.0000e-005	1.9600e-003	0.0000	5.4520	5.4520	1.2000e-004	1.4000e-004	5.4956
<b>Total</b>	<b>2.3500e-003</b>	<b>0.0127</b>	<b>0.0239</b>	<b>1.2000e-004</b>	<b>9.3300e-003</b>	<b>1.2000e-004</b>	<b>9.4700e-003</b>	<b>2.5300e-003</b>	<b>1.2000e-004</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>10.9187</b>	<b>10.9187</b>	<b>1.8000e-004</b>	<b>9.5000e-004</b>	<b>11.2043</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2000e-003	0.0314	0.0458	7.0000e-005		1.5700e-003	1.5700e-003		1.4500e-003	1.4500e-003	0.0000	6.1594	6.1594	1.9900e-003	0.0000	6.2092
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.2000e-003</b>	<b>0.0314</b>	<b>0.0458</b>	<b>7.0000e-005</b>		<b>1.5700e-003</b>	<b>1.5700e-003</b>		<b>1.4500e-003</b>	<b>1.4500e-003</b>	<b>0.0000</b>	<b>6.1594</b>	<b>6.1594</b>	<b>1.9900e-003</b>	<b>0.0000</b>	<b>6.2092</b>

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

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

**3.5 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.4700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4130	0.4130	1.0000e-005	1.0000e-005	0.4163
<b>Total</b>	<b>1.5000e-004</b>	<b>1.1000e-004</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4130</b>	<b>0.4130</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4163</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2000e-003	0.0314	0.0458	7.0000e-005		1.5700e-003	1.5700e-003		1.4500e-003	1.4500e-003	0.0000	6.1594	6.1594	1.9900e-003	0.0000	6.2092
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.2000e-003</b>	<b>0.0314</b>	<b>0.0458</b>	<b>7.0000e-005</b>		<b>1.5700e-003</b>	<b>1.5700e-003</b>		<b>1.4500e-003</b>	<b>1.4500e-003</b>	<b>0.0000</b>	<b>6.1594</b>	<b>6.1594</b>	<b>1.9900e-003</b>	<b>0.0000</b>	<b>6.2092</b>

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

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

**3.5 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.4700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4130	0.4130	1.0000e-005	1.0000e-005	0.4163
<b>Total</b>	<b>1.5000e-004</b>	<b>1.1000e-004</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4130</b>	<b>0.4130</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4163</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0760					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-004	6.0900e-003	9.0500e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
<b>Total</b>	<b>0.0769</b>	<b>6.0900e-003</b>	<b>9.0500e-003</b>	<b>1.0000e-005</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.2784</b>

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

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

**3.6 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.5000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0413	0.0413	0.0000	0.0000	0.0416
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0413</b>	<b>0.0413</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0416</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0760					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-004	6.0900e-003	9.0500e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
<b>Total</b>	<b>0.0769</b>	<b>6.0900e-003</b>	<b>9.0500e-003</b>	<b>1.0000e-005</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.2784</b>

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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 - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.5000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0413	0.0413	0.0000	0.0000	0.0416
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0413</b>	<b>0.0413</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0416</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

**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	0.4071	0.5484	3.5590	7.7800e-003	0.8409	6.4500e-003	0.8474	0.2246	6.0400e-003	0.2307	0.0000	736.7786	736.7786	0.0436	0.0392	749.5443
Unmitigated	0.4071	0.5484	3.5590	7.7800e-003	0.8409	6.4500e-003	0.8474	0.2246	6.0400e-003	0.2307	0.0000	736.7786	736.7786	0.0436	0.0392	749.5443

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	399.79	399.79	399.79	1,287,921	1,287,921
High Turnover (Sit Down Restaurant)	412.90	412.90	412.90	562,715	562,715
Quality Restaurant	262.16	262.16	262.16	373,219	373,219
<b>Total</b>	<b>1,074.86</b>	<b>1,074.86</b>	<b>1,074.86</b>	<b>2,223,855</b>	<b>2,223,855</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down Restaurant)	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.540541	0.056458	0.173793	0.136090	0.025268	0.007074	0.011525	0.018705	0.000610	0.000304	0.023606	0.001094	0.004932
High Turnover (Sit Down Restaurant)	0.540541	0.056458	0.173793	0.136090	0.025268	0.007074	0.011525	0.018705	0.000610	0.000304	0.023606	0.001094	0.004932

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

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

Quality Restaurant	0.540541	0.056458	0.173793	0.136090	0.025268	0.007074	0.011525	0.018705	0.000610	0.000304	0.023606	0.001094	0.004932
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	94.2604	94.2604	7.9600e-003	9.6000e-004	94.7467
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	94.2604	94.2604	7.9600e-003	9.6000e-004	94.7467
NaturalGas Mitigated	0.0153	0.1387	0.1165	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	150.9833	150.9833	2.8900e-003	2.7700e-003	151.8806
NaturalGas Unmitigated	0.0153	0.1387	0.1165	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	150.9833	150.9833	2.8900e-003	2.7700e-003	151.8806

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

**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	20923	1.1000e-004	1.0300e-003	8.6000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1165	1.1165	2.0000e-005	2.0000e-005	1.1232
High Turnover (Sit Down Restaurant)	1.71776e+006	9.2600e-003	0.0842	0.0707	5.1000e-004		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003	0.0000	91.6661	91.6661	1.7600e-003	1.6800e-003	92.2108
Quality Restaurant	1.09064e+006	5.8800e-003	0.0535	0.0449	3.2000e-004		4.0600e-003	4.0600e-003		4.0600e-003	4.0600e-003	0.0000	58.2007	58.2007	1.1200e-003	1.0700e-003	58.5466
<b>Total</b>		<b>0.0153</b>	<b>0.1387</b>	<b>0.1165</b>	<b>8.4000e-004</b>		<b>0.0105</b>	<b>0.0105</b>		<b>0.0105</b>	<b>0.0105</b>	<b>0.0000</b>	<b>150.9833</b>	<b>150.9833</b>	<b>2.9000e-003</b>	<b>2.7700e-003</b>	<b>151.8806</b>

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

**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	tons/yr										MT/yr					
General Office Building	20923	1.1000e-004	1.0300e-003	8.6000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1165	1.1165	2.0000e-005	2.0000e-005	1.1232
High Turnover (Sit Down Restaurant)	1.71776e+006	9.2600e-003	0.0842	0.0707	5.1000e-004		6.4000e-003	6.4000e-003		6.4000e-003	6.4000e-003	0.0000	91.6661	91.6661	1.7600e-003	1.6800e-003	92.2108
Quality Restaurant	1.09064e+006	5.8800e-003	0.0535	0.0449	3.2000e-004		4.0600e-003	4.0600e-003		4.0600e-003	4.0600e-003	0.0000	58.2007	58.2007	1.1200e-003	1.0700e-003	58.5466
<b>Total</b>		<b>0.0153</b>	<b>0.1387</b>	<b>0.1165</b>	<b>8.4000e-004</b>		<b>0.0105</b>	<b>0.0105</b>		<b>0.0105</b>	<b>0.0105</b>	<b>0.0000</b>	<b>150.9833</b>	<b>150.9833</b>	<b>2.9000e-003</b>	<b>2.7700e-003</b>	<b>151.8806</b>

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

**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	56059	9.9418	8.4000e-004	1.0000e-004	9.9931
High Turnover (Sit Down Restaurant)	290808	51.5735	4.3500e-003	5.3000e-004	51.8396
Quality Restaurant	184640	32.7451	2.7600e-003	3.4000e-004	32.9140
<b>Total</b>		<b>94.2604</b>	<b>7.9500e-003</b>	<b>9.7000e-004</b>	<b>94.7467</b>

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

**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	56059	9.9418	8.4000e-004	1.0000e-004	9.9931
High Turnover (Sit Down Restaurant)	290808	51.5735	4.3500e-003	5.3000e-004	51.8396
Quality Restaurant	184640	32.7451	2.7600e-003	3.4000e-004	32.9140
<b>Total</b>		<b>94.2604</b>	<b>7.9500e-003</b>	<b>9.7000e-004</b>	<b>94.7467</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

**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	0.0669	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.1000e-004	4.1000e-004	0.0000	0.0000	4.3000e-004
Unmitigated	0.0669	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.1000e-004	4.1000e-004	0.0000	0.0000	4.3000e-004

**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	7.6000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0593					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.1000e-004	4.1000e-004	0.0000	0.0000	4.3000e-004
<b>Total</b>	<b>0.0669</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.3000e-004</b>

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

**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	7.6000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0593					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.1000e-004	4.1000e-004	0.0000	0.0000	4.3000e-004
<b>Total</b>	<b>0.0669</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.3000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

**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	12.7614	0.1382	3.3600e-003	17.2158
Unmitigated	12.7614	0.1382	3.3600e-003	17.2158

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.08418 / 0.664495	4.1568	0.0357	8.7000e-004	5.3083
High Turnover (Sit Down Restaurant)	1.91226 / 0.122059	5.2630	0.0627	1.5200e-003	7.2832
Quality Restaurant	1.21413 / 0.077498	3.3416	0.0398	9.6000e-004	4.6243
<b>Total</b>		<b>12.7614</b>	<b>0.1382</b>	<b>3.3500e-003</b>	<b>17.2158</b>

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

**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	1.08418 / 0.664495	4.1568	0.0357	8.7000e-004	5.3083
High Turnover (Sit Down Restaurant)	1.91226 / 0.122059	5.2630	0.0627	1.5200e-003	7.2832
Quality Restaurant	1.21413 / 0.077498	3.3416	0.0398	9.6000e-004	4.6243
<b>Total</b>		<b>12.7614</b>	<b>0.1382</b>	<b>3.3500e-003</b>	<b>17.2158</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

**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	17.1101	1.0112	0.0000	42.3896
Unmitigated	17.1101	1.0112	0.0000	42.3896

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	5.67	1.1510	0.0680	0.0000	2.8515
High Turnover (Sit Down Restaurant)	74.97	15.2182	0.8994	0.0000	37.7025
Quality Restaurant	3.65	0.7409	0.0438	0.0000	1.8356
<b>Total</b>		<b>17.1101</b>	<b>1.0112</b>	<b>0.0000</b>	<b>42.3896</b>

Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

**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	5.67	1.1510	0.0680	0.0000	2.8515
High Turnover (Sit Down Restaurant)	74.97	15.2182	0.8994	0.0000	37.7025
Quality Restaurant	3.65	0.7409	0.0438	0.0000	1.8356
<b>Total</b>		<b>17.1101</b>	<b>1.0112</b>	<b>0.0000</b>	<b>42.3896</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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Planning Area 1 Commercial and Restaurant SP Scenario - Riverside-South Coast County, Annual

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

**11.0 Vegetation**

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Terrano II Apartments - Riverside-South Coast County, Annual

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

**Terrano II Apartments  
Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	50.00	Dwelling Unit	2.47	50,000.00	143
Parking Lot	55.00	Space	0.49	22,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2025
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use - 2.96 acres
- Construction Phase -
- Off-road Equipment -
- Grading -
- Vehicle Trips - per TS
- Construction Off-road Equipment Mitigation -

Terrano II Apartments - Riverside-South Coast County, Annual

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

Woodstoves - No hearth options will be provided

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	12/12/2024	11/28/2024
tblConstructionPhase	PhaseStartDate	11/29/2024	11/15/2024
tblFireplaces	NumberGas	42.50	0.00
tblFireplaces	NumberNoFireplace	5.00	50.00
tblFireplaces	NumberWood	2.50	0.00
tblLandUse	LotAcreage	3.13	2.47
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblVehicleTrips	ST_TR	8.14	6.74
tblVehicleTrips	SU_TR	6.28	6.74
tblVehicleTrips	WD_TR	7.32	6.74
tblWoodstoves	NumberCatalytic	2.50	0.00
tblWoodstoves	NumberNoncatalytic	2.50	0.00

**2.0 Emissions Summary**

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Terrano II Apartments - Riverside-South Coast County, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2024	3-31-2024	0.4595	0.4595
2	4-1-2024	6-30-2024	0.4865	0.4865
3	7-1-2024	9-30-2024	0.4918	0.4918
		Highest	0.4918	0.4918

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2136	5.9400e-003	0.5158	3.0000e-005		2.8600e-003	2.8600e-003		2.8600e-003	2.8600e-003	0.0000	0.8436	0.8436	8.1000e-004	0.0000	0.8639
Energy	4.0800e-003	0.0349	0.0148	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	78.7005	78.7005	4.0100e-003	1.1300e-003	79.1381
Mobile	0.1577	0.2501	1.6384	3.9600e-003	0.4355	3.1900e-003	0.4387	0.1163	2.9900e-003	0.1193	0.0000	375.1057	375.1057	0.0187	0.0181	380.9670
Waste						0.0000	0.0000		0.0000	0.0000	4.6688	0.0000	4.6688	0.2759	0.0000	11.5667
Water						0.0000	0.0000		0.0000	0.0000	1.0335	11.5693	12.6028	0.1071	2.6200e-003	16.0632
<b>Total</b>	<b>0.3753</b>	<b>0.2909</b>	<b>2.1691</b>	<b>4.2100e-003</b>	<b>0.4355</b>	<b>8.8700e-003</b>	<b>0.4443</b>	<b>0.1163</b>	<b>8.6700e-003</b>	<b>0.1250</b>	<b>5.7023</b>	<b>466.2191</b>	<b>471.9214</b>	<b>0.4066</b>	<b>0.0219</b>	<b>488.5989</b>

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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	0.2136	5.9400e-003	0.5158	3.0000e-005		2.8600e-003	2.8600e-003		2.8600e-003	2.8600e-003	0.0000	0.8436	0.8436	8.1000e-004	0.0000	0.8639
Energy	4.0800e-003	0.0349	0.0148	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	78.7005	78.7005	4.0100e-003	1.1300e-003	79.1381
Mobile	0.1577	0.2501	1.6384	3.9600e-003	0.4355	3.1900e-003	0.4387	0.1163	2.9900e-003	0.1193	0.0000	375.1057	375.1057	0.0187	0.0181	380.9670
Waste						0.0000	0.0000		0.0000	0.0000	4.6688	0.0000	4.6688	0.2759	0.0000	11.5667
Water						0.0000	0.0000		0.0000	0.0000	1.0335	11.5693	12.6028	0.1071	2.6200e-003	16.0632
<b>Total</b>	<b>0.3753</b>	<b>0.2909</b>	<b>2.1691</b>	<b>4.2100e-003</b>	<b>0.4355</b>	<b>8.8700e-003</b>	<b>0.4443</b>	<b>0.1163</b>	<b>8.6700e-003</b>	<b>0.1250</b>	<b>5.7023</b>	<b>466.2191</b>	<b>471.9214</b>	<b>0.4066</b>	<b>0.0219</b>	<b>488.5989</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2024	1/3/2024	5	3	
2	Grading	Grading	1/4/2024	1/11/2024	5	6	
3	Building Construction	Building Construction	1/12/2024	11/14/2024	5	220	

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4	Paving	Paving	11/15/2024	11/28/2024	5	10
5	Architectural Coating	Architectural Coating	11/15/2024	11/28/2024	5	10

**Acres of Grading (Site Preparation Phase): 1.5**

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 0.49**

**Residential Indoor: 101,250; Residential Outdoor: 33,750; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,320 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Rollers	1	7.00	80	0.38
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

**Trips and VMT**

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	9.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	45.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2000e-004	8.1300e-003	5.4200e-003	1.0000e-005		2.9000e-004	2.9000e-004		2.7000e-004	2.7000e-004	0.0000	1.2309	1.2309	4.0000e-004	0.0000	1.2409
<b>Total</b>	<b>7.2000e-004</b>	<b>8.1300e-003</b>	<b>5.4200e-003</b>	<b>1.0000e-005</b>	<b>8.0000e-004</b>	<b>2.9000e-004</b>	<b>1.0900e-003</b>	<b>9.0000e-005</b>	<b>2.7000e-004</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.2309</b>	<b>1.2309</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.2409</b>

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

**3.2 Site Preparation - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0620	0.0620	0.0000	0.0000	0.0625
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0625</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.6000e-004	0.0000	3.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2000e-004	8.1300e-003	5.4200e-003	1.0000e-005		2.9000e-004	2.9000e-004		2.7000e-004	2.7000e-004	0.0000	1.2309	1.2309	4.0000e-004	0.0000	1.2409
<b>Total</b>	<b>7.2000e-004</b>	<b>8.1300e-003</b>	<b>5.4200e-003</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>2.9000e-004</b>	<b>6.5000e-004</b>	<b>4.0000e-005</b>	<b>2.7000e-004</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.2309</b>	<b>1.2309</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.2409</b>

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

**3.2 Site Preparation - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0620	0.0620	0.0000	0.0000	0.0625
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0620</b>	<b>0.0620</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0625</b>

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5900e-003	0.0000	1.5900e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2000e-003	0.0240	0.0215	4.0000e-005		9.6000e-004	9.6000e-004		8.9000e-004	8.9000e-004	0.0000	3.7780	3.7780	1.2200e-003	0.0000	3.8085
<b>Total</b>	<b>2.2000e-003</b>	<b>0.0240</b>	<b>0.0215</b>	<b>4.0000e-005</b>	<b>1.5900e-003</b>	<b>9.6000e-004</b>	<b>2.5500e-003</b>	<b>1.7000e-004</b>	<b>8.9000e-004</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>3.7780</b>	<b>3.7780</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>3.8085</b>

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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 - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.8000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2478	0.2478	1.0000e-005	1.0000e-005	0.2498
<b>Total</b>	<b>9.0000e-005</b>	<b>6.0000e-005</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2478</b>	<b>0.2478</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2498</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.2000e-004	0.0000	7.2000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2000e-003	0.0240	0.0215	4.0000e-005		9.6000e-004	9.6000e-004		8.9000e-004	8.9000e-004	0.0000	3.7780	3.7780	1.2200e-003	0.0000	3.8085
<b>Total</b>	<b>2.2000e-003</b>	<b>0.0240</b>	<b>0.0215</b>	<b>4.0000e-005</b>	<b>7.2000e-004</b>	<b>9.6000e-004</b>	<b>1.6800e-003</b>	<b>8.0000e-005</b>	<b>8.9000e-004</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>3.7780</b>	<b>3.7780</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>3.8085</b>

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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 - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	8.8000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2478	0.2478	1.0000e-005	1.0000e-005	0.2498
<b>Total</b>	<b>9.0000e-005</b>	<b>6.0000e-005</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2478</b>	<b>0.2478</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2498</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1757	1.4106	1.5510	2.7500e-003		0.0592	0.0592		0.0567	0.0567	0.0000	228.4853	228.4853	0.0426	0.0000	229.5492
<b>Total</b>	<b>0.1757</b>	<b>1.4106</b>	<b>1.5510</b>	<b>2.7500e-003</b>		<b>0.0592</b>	<b>0.0592</b>		<b>0.0567</b>	<b>0.0567</b>	<b>0.0000</b>	<b>228.4853</b>	<b>228.4853</b>	<b>0.0426</b>	<b>0.0000</b>	<b>229.5492</b>

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**3.4 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0600e-003	0.0340	0.0134	1.7000e-004	6.2500e-003	2.8000e-004	6.5300e-003	1.8000e-003	2.7000e-004	2.0700e-003	0.0000	16.4002	16.4002	1.7000e-004	2.4200e-003	17.1261
Worker	0.0150	0.0106	0.1456	4.4000e-004	0.0544	2.5000e-004	0.0547	0.0145	2.3000e-004	0.0147	0.0000	40.8897	40.8897	9.4000e-004	1.0200e-003	41.2171
<b>Total</b>	<b>0.0161</b>	<b>0.0446</b>	<b>0.1590</b>	<b>6.1000e-004</b>	<b>0.0607</b>	<b>5.3000e-004</b>	<b>0.0612</b>	<b>0.0163</b>	<b>5.0000e-004</b>	<b>0.0168</b>	<b>0.0000</b>	<b>57.2899</b>	<b>57.2899</b>	<b>1.1100e-003</b>	<b>3.4400e-003</b>	<b>58.3432</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1757	1.4106	1.5510	2.7500e-003		0.0592	0.0592		0.0567	0.0567	0.0000	228.4851	228.4851	0.0426	0.0000	229.5489
<b>Total</b>	<b>0.1757</b>	<b>1.4106</b>	<b>1.5510</b>	<b>2.7500e-003</b>		<b>0.0592</b>	<b>0.0592</b>		<b>0.0567</b>	<b>0.0567</b>	<b>0.0000</b>	<b>228.4851</b>	<b>228.4851</b>	<b>0.0426</b>	<b>0.0000</b>	<b>229.5489</b>

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**3.4 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0600e-003	0.0340	0.0134	1.7000e-004	6.2500e-003	2.8000e-004	6.5300e-003	1.8000e-003	2.7000e-004	2.0700e-003	0.0000	16.4002	16.4002	1.7000e-004	2.4200e-003	17.1261
Worker	0.0150	0.0106	0.1456	4.4000e-004	0.0544	2.5000e-004	0.0547	0.0145	2.3000e-004	0.0147	0.0000	40.8897	40.8897	9.4000e-004	1.0200e-003	41.2171
<b>Total</b>	<b>0.0161</b>	<b>0.0446</b>	<b>0.1590</b>	<b>6.1000e-004</b>	<b>0.0607</b>	<b>5.3000e-004</b>	<b>0.0612</b>	<b>0.0163</b>	<b>5.0000e-004</b>	<b>0.0168</b>	<b>0.0000</b>	<b>57.2899</b>	<b>57.2899</b>	<b>1.1100e-003</b>	<b>3.4400e-003</b>	<b>58.3432</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2000e-003	0.0314	0.0458	7.0000e-005		1.5700e-003	1.5700e-003		1.4500e-003	1.4500e-003	0.0000	6.1594	6.1594	1.9900e-003	0.0000	6.2092
Paving	6.4000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.8400e-003</b>	<b>0.0314</b>	<b>0.0458</b>	<b>7.0000e-005</b>		<b>1.5700e-003</b>	<b>1.5700e-003</b>		<b>1.4500e-003</b>	<b>1.4500e-003</b>	<b>0.0000</b>	<b>6.1594</b>	<b>6.1594</b>	<b>1.9900e-003</b>	<b>0.0000</b>	<b>6.2092</b>

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

**3.5 Paving - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.4700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4130	0.4130	1.0000e-005	1.0000e-005	0.4163
<b>Total</b>	<b>1.5000e-004</b>	<b>1.1000e-004</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4130</b>	<b>0.4130</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4163</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2000e-003	0.0314	0.0458	7.0000e-005		1.5700e-003	1.5700e-003		1.4500e-003	1.4500e-003	0.0000	6.1594	6.1594	1.9900e-003	0.0000	6.2092
Paving	6.4000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.8400e-003</b>	<b>0.0314</b>	<b>0.0458</b>	<b>7.0000e-005</b>		<b>1.5700e-003</b>	<b>1.5700e-003</b>		<b>1.4500e-003</b>	<b>1.4500e-003</b>	<b>0.0000</b>	<b>6.1594</b>	<b>6.1594</b>	<b>1.9900e-003</b>	<b>0.0000</b>	<b>6.2092</b>

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**3.5 Paving - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.4700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4130	0.4130	1.0000e-005	1.0000e-005	0.4163
<b>Total</b>	<b>1.5000e-004</b>	<b>1.1000e-004</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4130</b>	<b>0.4130</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4163</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1595					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-004	6.0900e-003	9.0500e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
<b>Total</b>	<b>0.1604</b>	<b>6.0900e-003</b>	<b>9.0500e-003</b>	<b>1.0000e-005</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.2784</b>

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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 - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.3200e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3717	0.3717	1.0000e-005	1.0000e-005	0.3747
<b>Total</b>	<b>1.4000e-004</b>	<b>1.0000e-004</b>	<b>1.3200e-003</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3717</b>	<b>0.3717</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3747</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1595					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-004	6.0900e-003	9.0500e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
<b>Total</b>	<b>0.1604</b>	<b>6.0900e-003</b>	<b>9.0500e-003</b>	<b>1.0000e-005</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.2784</b>

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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 - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.0000e-004	1.3200e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3717	0.3717	1.0000e-005	1.0000e-005	0.3747
<b>Total</b>	<b>1.4000e-004</b>	<b>1.0000e-004</b>	<b>1.3200e-003</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3717</b>	<b>0.3717</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3747</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1577	0.2501	1.6384	3.9600e-003	0.4355	3.1900e-003	0.4387	0.1163	2.9900e-003	0.1193	0.0000	375.1057	375.1057	0.0187	0.0181	380.9670
Unmitigated	0.1577	0.2501	1.6384	3.9600e-003	0.4355	3.1900e-003	0.4387	0.1163	2.9900e-003	0.1193	0.0000	375.1057	375.1057	0.0187	0.0181	380.9670

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	337.00	337.00	337.00	1,151,580	1,151,580
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>337.00</b>	<b>337.00</b>	<b>337.00</b>	<b>1,151,580</b>	<b>1,151,580</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.540541	0.056458	0.173793	0.136090	0.025268	0.007074	0.011525	0.018705	0.000610	0.000304	0.023606	0.001094	0.004932
Parking Lot	0.540541	0.056458	0.173793	0.136090	0.025268	0.007074	0.011525	0.018705	0.000610	0.000304	0.023606	0.001094	0.004932

**5.0 Energy Detail**

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	38.3417	38.3417	3.2400e-003	3.9000e-004	38.5395
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	38.3417	38.3417	3.2400e-003	3.9000e-004	38.5395
Natural Gas Mitigated	4.0800e-003	0.0349	0.0148	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	40.3588	40.3588	7.7000e-004	7.4000e-004	40.5986
Natural Gas Unmitigated	4.0800e-003	0.0349	0.0148	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	40.3588	40.3588	7.7000e-004	7.4000e-004	40.5986

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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					
Apartments Low Rise	756296	4.0800e-003	0.0349	0.0148	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	40.3588	40.3588	7.7000e-004	7.4000e-004	40.5986
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.0800e-003</b>	<b>0.0349</b>	<b>0.0148</b>	<b>2.2000e-004</b>		<b>2.8200e-003</b>	<b>2.8200e-003</b>		<b>2.8200e-003</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>40.3588</b>	<b>40.3588</b>	<b>7.7000e-004</b>	<b>7.4000e-004</b>	<b>40.5986</b>

**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					
Apartments Low Rise	756296	4.0800e-003	0.0349	0.0148	2.2000e-004		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	40.3588	40.3588	7.7000e-004	7.4000e-004	40.5986
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.0800e-003</b>	<b>0.0349</b>	<b>0.0148</b>	<b>2.2000e-004</b>		<b>2.8200e-003</b>	<b>2.8200e-003</b>		<b>2.8200e-003</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>40.3588</b>	<b>40.3588</b>	<b>7.7000e-004</b>	<b>7.4000e-004</b>	<b>40.5986</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	208498	36.9761	3.1200e-003	3.8000e-004	37.1669
Parking Lot	7700	1.3656	1.2000e-004	1.0000e-005	1.3726
<b>Total</b>		<b>38.3417</b>	<b>3.2400e-003</b>	<b>3.9000e-004</b>	<b>38.5395</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	208498	36.9761	3.1200e-003	3.8000e-004	37.1669
Parking Lot	7700	1.3656	1.2000e-004	1.0000e-005	1.3726
<b>Total</b>		<b>38.3417</b>	<b>3.2400e-003</b>	<b>3.9000e-004</b>	<b>38.5395</b>

**6.0 Area Detail**

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

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2136	5.9400e-003	0.5158	3.0000e-005		2.8600e-003	2.8600e-003		2.8600e-003	2.8600e-003	0.0000	0.8436	0.8436	8.1000e-004	0.0000	0.8639
Unmitigated	0.2136	5.9400e-003	0.5158	3.0000e-005		2.8600e-003	2.8600e-003		2.8600e-003	2.8600e-003	0.0000	0.8436	0.8436	8.1000e-004	0.0000	0.8639

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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**

**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	0.0160					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1821					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0155	5.9400e-003	0.5158	3.0000e-005		2.8600e-003	2.8600e-003		2.8600e-003	2.8600e-003	0.0000	0.8436	0.8436	8.1000e-004	0.0000	0.8639
<b>Total</b>	<b>0.2136</b>	<b>5.9400e-003</b>	<b>0.5158</b>	<b>3.0000e-005</b>		<b>2.8600e-003</b>	<b>2.8600e-003</b>		<b>2.8600e-003</b>	<b>2.8600e-003</b>	<b>0.0000</b>	<b>0.8436</b>	<b>0.8436</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>0.8639</b>

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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	0.0160					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1821					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0155	5.9400e-003	0.5158	3.0000e-005		2.8600e-003	2.8600e-003		2.8600e-003	2.8600e-003	0.0000	0.8436	0.8436	8.1000e-004	0.0000	0.8639
<b>Total</b>	<b>0.2136</b>	<b>5.9400e-003</b>	<b>0.5158</b>	<b>3.0000e-005</b>		<b>2.8600e-003</b>	<b>2.8600e-003</b>		<b>2.8600e-003</b>	<b>2.8600e-003</b>	<b>0.0000</b>	<b>0.8436</b>	<b>0.8436</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>0.8639</b>

**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	12.6028	0.1071	2.6200e-003	16.0632
Unmitigated	12.6028	0.1071	2.6200e-003	16.0632

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	3.2577 / 2.05377	12.6028	0.1071	2.6200e-003	16.0632
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>12.6028</b>	<b>0.1071</b>	<b>2.6200e-003</b>	<b>16.0632</b>

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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			
Apartments Low Rise	3.2577 / 2.05377	12.6028	0.1071	2.6200e-003	16.0632
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>12.6028</b>	<b>0.1071</b>	<b>2.6200e-003</b>	<b>16.0632</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.6688	0.2759	0.0000	11.5667
Unmitigated	4.6688	0.2759	0.0000	11.5667

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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**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	23	4.6688	0.2759	0.0000	11.5667
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.6688</b>	<b>0.2759</b>	<b>0.0000</b>	<b>11.5667</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	23	4.6688	0.2759	0.0000	11.5667
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.6688</b>	<b>0.2759</b>	<b>0.0000</b>	<b>11.5667</b>

**9.0 Operational Offroad**

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

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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