



## Technical Memorandum

To: Kelly Lucia, Planning Manager

From: Eliza Laws, Senior Environmental Analyst  
Noemi Avila, Assistant Environmental Analyst

Date: June 28, 2022

Re: Air Quality/Greenhouse Gas Analysis for the 4<sup>th</sup> Street Park Expansion in the City of Calimesa, Riverside County, California.

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The following air quality assessment was prepared to evaluate whether the expected criteria air pollutant emissions generated as a result of construction and operation of the proposed Project would cause exceedances of the South Coast Air Quality Management District's (SCAQMD) thresholds for air quality in the Project area. The greenhouse gas (GHG) assessment was prepared to evaluate whether the expected criteria GHG emissions generated as a result of construction and operation of the proposed Project would exceed the SCAQMD draft screening significance thresholds. This assessment was conducted within the context of the California Environmental Quality Act (CEQA, California Public Resources Code Sections 21000 *et seq.*). The methodology follows the *CEQA Air Quality Handbook* prepared by the SCAQMD for quantification of emissions and evaluation of potential impacts to air resources. As recommended by SCAQMD staff, the **California Emissions Estimator Model**<sup>®</sup> version 2020.4.0 (CalEEMod) was used to quantify Project-related emissions.

The Project proposes the expansion of the Fourth Street Community Park on a 2.32-acre lot, located in the City of Calimesa, California, on 5<sup>th</sup> Street. The Project includes the construction of restrooms and a maintenance shed. The park expansion site will include open landscaped areas with decomposed granite walking trails with distance markers that connect to trails at the existing park. The Project includes sport courts that may be used for basketball and/or tennis/pickleball. Additional parking for the park expansion site is proposed on 5<sup>th</sup> Street.

### ▪ Regional Significance Thresholds

The thresholds contained in the *SCAQMD CEQA Air Quality Handbook*<sup>1</sup> (SCAQMD 1993) are considered regional thresholds and are shown in **Table 1 – SCAQMD CEQA Daily Regional Significance Thresholds**, below. These regional thresholds were developed based on the SCAQMD's treatment of a major stationary source.

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<sup>1</sup> South Coast Air Quality Management District, *CEQA Air Quality Handbook*, November 1993. (Available at SCAQMD.)

**Table 1 – SCAQMD CEQA Daily Regional Significance Thresholds**

Emission Threshold	Units	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM-10	PM-2.5
Construction	lbs/day	75	100	550	150	150	55
Operation	lbs/day	55	55	550	150	150	55

Air quality impacts can be described in a short- and long-term perspective. Short-term impacts occur during site grading and Project construction and consist of fugitive dust and other particulate matter, as well as exhaust emissions generated by construction-related vehicles. Long-term air quality impacts occur once the Project is in operation.

The Project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rule 403 establishes these procedures. Compliance with this rule is achieved through application of standard best management practices in construction and operation activities, such as application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph and establishing a permanent, stabilizing ground cover on finished sites. In addition, projects that disturb 50 or more acres or more of soil or move 5,000 cubic yards of materials per day are required to submit a Fugitive Dust Control Plan or a Large Operation Notification Form to SCAQMD. Based on the size of this Project’s disturbance area (approximately 2.32 gross acres), a Fugitive Dust Control Plan or a Large Operation Notification Form would not be required.

### Short-Term Analysis

Short-term emissions from Project construction were evaluated using the CalEEMod version 2020.4.0 program. The estimated construction period for the proposed Project is approximately six months, beginning no sooner than January 2023. The default parameters within CalEEMod were used, except as identified below, and these default values generally reflect a worst-case scenario, which means that Project emissions are expected to be equal to or less than the estimated emissions. In addition to the default values used, Project-specific assumptions relevant to model inputs for short-term construction emission estimates used are:

- Construction is anticipated to begin in January 2023 with Grading and end with Architectural Coating activities in June 2023:

Construction Activity	Start Date	End Date	Total Working Days
Grading	January 1, 2023	January 5, 2023	4 days
Park Construction	January 6, 2023	May 25, 2023	100 days
Paving	May 26, 2023	June 8, 2023	10 days
Architectural Coating	June 9, 2023	June 22, 2023	10 days

- The equipment to be used for each activity is shown below based CalEEMod defaults. Each piece of equipment is assumed to operate 8 hours per day:

Construction Activity	Off-Road Equipment	Unit Amount
Grading	Graders	1
	Rubber Tired Dozers	1
	Tractors/Loaders/Backhoes	2
Park Construction	Cranes	1
	Forklifts	2
	Tractors/Loaders/Backhoes	1
	Welders	3

Construction Activity	Off-Road Equipment	Unit Amount
	Generator Sets	1
Paving	Pavers	1
	Rollers	1
	Tractor/Loader/Backhoes	1
	Cement and Mortar Mixers	1
Architectural Coatings	Air Compressor	1

- To evaluate Project compliance with SCAQMD Rule 403 for fugitive dust control, the Project utilized the mitigation option of watering the Project site three times daily which achieves a control efficiency of 61 percent for PM-10 and PM-2.5 emissions. Two (2) one-way vendor trips per day were added to the demolition, grading and paving activities to account for water truck trips.
- The Project site will balance; no soil import or export is required.
- The Project does not require offsite improvements.
- The size of the proposed restroom building, and maintenance shed has not been determined. For analysis purposes, these structures were assumed to be 300 square-feet and 400 square-feet in size, respectively.

The results of this analysis are summarized below.

**Table 2 – Unmitigated Estimated Maximum Daily Construction Emissions**

Activity	Peak Daily Emissions (lb/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM-10	PM-2.5
<b>SCAQMD Daily Construction Thresholds</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Grading-2023	1.41	<b>14.94</b>	9.65	0.02	<b>3.51</b>	<b>1.94</b>
Park Construction-2023	<b>1.95</b>	14.94	<b>16.82</b>	<b>0.03</b>	1.23	0.78
Paving-2023	0.66	5.49	7.67	0.01	0.39	0.28
Architectural Coatings-2023	1.25	1.76	2.71	0.00	0.18	0.12
<b>Maximum<sup>1</sup></b>	<b>1.95</b>	<b>14.94</b>	<b>16.82</b>	<b>0.03</b>	<b>3.51</b>	<b>1.94</b>
<b>Exceeds Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Note: <sup>1</sup>Maximum emissions are the greater of each construction activity alone. Maximum emissions are shown in bold

As shown in the table above, the emissions from construction of the Project are below the SCAQMD daily construction thresholds for all the criteria pollutants.

### Long-Term Analysis

Long-term emissions are evaluated at build-out of a project. The Project is assumed to be operational in 2023. Mobile source emissions refer to on-road motor vehicle emissions generated from the Project's traffic and are based on CalEEMod defaults.

Area source emissions include the use of consumer products, residential hearths (fireplaces), yard and landscape maintenance, and an average building square footage to be repainted each year. Energy source emissions are associated with building electricity and natural gas usage (non-hearth). CalEEMod computes area and energy source emissions based upon default factors and land use assumptions. CalEEMod defaults were utilized.

Separate emissions were computed for both the summer and winter.

**Table 3 – Unmitigated Estimated Daily Project Operation Emissions (Summer)**

Source	Peak Daily Emissions (lb/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM-10	PM-2.5
<b>SCAQMD Daily Thresholds</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Area	0.03	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.01	0.02	0.13	0.00	0.03	0.01
<b>Total</b>	<b>0.04</b>	<b>0.02</b>	<b>0.13</b>	<b>0.00</b>	<b>0.03</b>	<b>0.01</b>
<b>Exceeds Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

**Table 4 – Unmitigated Estimated Daily Project Operation Emissions (Winter)**

Source	Peak Daily Emissions (lb/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM-10	PM-2.5
<b>SCAQMD Daily Thresholds</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Area	0.03	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.01	0.02	0.11	0.00	0.03	0.01
<b>Total</b>	<b>0.04</b>	<b>0.02</b>	<b>0.11</b>	<b>0.00</b>	<b>0.03</b>	<b>0.01</b>
<b>Exceeds Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

Evaluation of the data presented on the above tables indicates that criteria pollutant emissions from operation of this Project will not exceed the SCAQMD regional daily thresholds for any pollutant during summer or winter.

## ▪ Localized Significance Threshold Analysis

### Background

As part of the SCAQMD's environmental justice program, attention has been focused on localized effects of air quality. Staff at SCAQMD has developed localized significance threshold (LST) methodology<sup>2</sup> that can be used by public agencies to determine whether or not a project may generate significant adverse localized air quality impacts (both short- and long-term). LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the state ambient air quality standard, and are developed based on the ambient concentrations of that pollutant for each source receptor area (SRA). The Project is located in SRA 28.

### Short-Term Analysis

According to the LST methodology, only on-site emissions need to be analyzed. Emissions associated with vendor and worker trips are mobile source emissions that occur off site. The emissions analyzed under the LST methodology are NO<sub>2</sub>, CO, PM-10, and PM-2.5. SCAQMD has provided LST lookup tables<sup>3</sup> to allow users to readily determine if the daily emissions for proposed construction or operational activities could result in significant localized air quality impacts for projects five acres or smaller. The Project site disturbs approximately 2.32-acres total.<sup>4</sup> Consistent with SCAQMD guidance, the LST for

<sup>2</sup> South Coast Air Quality Management District, *Final Localized Significance Threshold Methodology*, Revised July 2008. (Available at <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>, accessed July 2022.)

<sup>3</sup> <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>

<sup>4</sup> <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf?sfvrsn=2>

the one-acre site was used.<sup>5</sup> The LST threshold and tables can be used as a screening tool to determine if dispersion modeling would be necessary.

The LST thresholds are estimated using the maximum daily disturbed area (in acres) and the distance of the Project to the nearest sensitive receptors (in meters). The closest sensitive receptors to the Project construction site are existing residences adjacent to the north, south and west of the Project site. According to LST methodology, projects with boundaries closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters. Therefore, a receptor distance of 25 meters (85 feet) was used to ensure a conservative analysis. The results are summarized below.

**Table 5 – LST Results for Daily Construction Emissions**

Pollutant	Peak Daily Emissions (lb/day)			
	NO <sub>x</sub>	CO	PM-10	PM-2.5
<b>LST for 1-acre at 25 meters</b>	<b>162</b>	<b>750</b>	<b>4</b>	<b>3</b>
Grading-2023	<b>14.85</b>	9.26	<b>3.39</b>	<b>1.91</b>
Park Construction-2023	14.25	<b>15.06</b>	0.65	0.62
Paving-2023	0.62	5.40	0.27	0.25
Architectural Coatings-2023	1.22	1.74	0.09	0.09
<b>Maximum<sup>1</sup></b>	<b>14.85</b>	<b>15.06</b>	<b>3.39</b>	<b>1.91</b>
<b>Exceeds Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Note: <sup>1</sup>Maximum emissions are the greater of each construction activity alone. Maximum emissions are shown in bold.

Emissions from construction of the Project will be below the LST established by SCAQMD for the Project.

### Long-Term Analysis

According to the LST methodology, LSTs only apply to the operational phase if a project includes stationary sources or attracts mobile sources that may spend long periods of time idling at the site, such as warehouse/transfer facilities. The proposed Project does not include such uses. Therefore, due to the lack of stationary source emissions, no long-term LST analysis is needed.

### Greenhouse Gas Analysis

Greenhouse gases (GHG) are not presented in lbs/day like criteria pollutants; they are typically evaluated on an annual basis using the metric system. Several agencies, at various levels, have proposed draft GHG significance thresholds for use in CEQA documents. SCAQMD has been working on GHG thresholds for development projects. In December 2008, the SCAQMD adopted a threshold of 10,000 metric tonnes per year of carbon dioxide equivalents (MTCO<sub>2</sub>E/yr) for stationary source projects where SCAQMD is the lead agency. The most recent draft proposal was in September 2010<sup>6</sup> and included screening significance thresholds for residential, commercial, and mixed-use projects at 3,500, 1,400, and 3,000 MTCO<sub>2</sub>E/yr, respectively. Alternatively, a lead agency has the option to use 3,000 MTCO<sub>2</sub>E/yr as a threshold for all non-industrial projects. Although both options are recommended by SCAQMD, a lead agency is advised to use only one option and to use it consistently. If emissions are above the screening level threshold, additional analysis may be required. These screening thresholds are widely used by City of Calimesa and various other agencies in the South Coast Air Basin. The SCAQMD significance thresholds also evaluate construction emissions by amortizing them over an expected project life of 30 years.

<sup>5</sup> <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/calemod-guidance.pdf?sfvrsn=2>

<sup>6</sup> [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-main-presentation.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-main-presentation.pdf?sfvrsn=2)

## Short-Term Analysis

### Construction-Related Emissions

The CalEEMod model calculates GHG emissions from fuel usage by construction equipment and construction-related activities, like construction worker trips, for the Project. The CalEEMod estimate does not analyze emissions from construction-related electricity or natural gas. Construction-related electricity and natural gas emissions vary based on the amount of electric power used during construction and other unknown factors which make them too speculative to quantify. The CalEEMod output results for construction-related GHG emissions present the GHG emissions estimates for the Project for CO<sub>2</sub>, methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), and CO<sub>2</sub>E.<sup>7</sup>

**Table 6 – Project Construction Equipment GHG Emissions**

Year	Metric Tons per year (MT/yr)			
	Total CO <sub>2</sub>	Total CH <sub>4</sub>	Total N <sub>2</sub> O	Total CO <sub>2</sub> E
2023	152.23	0.02	0.00	153.64
Total	152.23	0.02	0.00	153.64
			<b>Amortized<sup>1</sup></b>	<b>5.12</b>

Note:<sup>1</sup>Construction emissions were amortized over a 30-year period, as recommended by SCAQMD.

Evaluation of **Table 6** indicates that an estimated 153.64 MTCO<sub>2</sub>E will occur from Project construction equipment over the course of the estimated approximately 10 months construction period. Since the draft SCAQMD GHG threshold guidance document released in October 2008<sup>8</sup> recommends that construction emissions be amortized for a project lifetime of 30 years to ensure that GHG reduction measures address construction GHG emissions as part of the operational reduction strategies, the total GHG emissions from Project construction were amortized and are included in **Table 8**, below.

## Long-Term Analysis

### Area Source Emissions

CalEEMod estimates the GHG emissions associated with area sources which include landscape equipment emissions, architectural coating, consumer products, and hearths. Landscape equipment servicing the Project site create CO<sub>2</sub> resulting from fuel combustion based on the Project's land uses. Consumer products consist of consumer use of solvents and personal care products and architectural coatings consist of an average building square footage to be repainted each year. The CalEEMod output contained in the attached output shows that the GHG emissions from area sources are negligible and are reported at zero.

### Energy-Related Emissions

CalEEMod estimates the GHG emissions associated with building electricity and natural gas usage (non-hearth) for each land use type. Electricity and natural gas used in buildings is typically generated at an off-site power plant which indirectly generates GHG emissions. The default energy usage values used in CalEEMod are based on the CEC sponsored California Commercial End Use Survey and Residential Appliance Saturation Survey studies and reflect 2019 Title 24 improvements (CalEEMod User's Guide, Appendix A). To account for the energy used for park lighting, the parking lot lighting energy intensity rate was conservatively applied to the approximate 2.06 acres of City Park Land Use area. **Table 7** summarizes the GHG emissions estimates reported by CalEEMod for the Project.

<sup>7</sup> CO<sub>2</sub>E is the sum of CO<sub>2</sub> emissions estimated plus the sum of CH<sub>4</sub> and N<sub>2</sub>O emissions estimated multiplied by their respective global warming potential (GWP).

<sup>8</sup> [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-6/ghg-meeting-6-guidance-document-discussion.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-6/ghg-meeting-6-guidance-document-discussion.pdf?sfvrsn=2)

**Table 7 – Energy-Related GHG Emissions**

Source	Metric Tons per year (MT/yr)			
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	Total CO <sub>2</sub> E
Electricity	6.27	0.00	0.00	6.30
Natural Gas	0.00	0.00	0.00	0.00
<b>Total</b>	<b>6.27</b>	<b>0.00</b>	<b>0.00</b>	<b>6.30</b>

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

### Mobile Source Emissions

CalEEMod estimates the annual GHG emissions from Project-related vehicle usage and are based on trip generation data contained in CalEEMod defaults for the proposed park. **Table 8** shows the mobile source emissions of GHG from the Project.

### Solid Waste Emissions

CalEEMod also calculates the GHG emissions associated with the disposal of solid waste into landfills based on default data contained within the model for waste disposal rates, composition, and the characteristics of landfills throughout the state. A large percentage of this waste will be diverted from landfills by a variety of means, such as reducing the amount of waste generated, recycling, and/or composting. The remainder of the waste not diverted will be disposed of at a landfill. This analysis assumes a solid waste diversion from the landfills as set in CalEEMod Defaults. **Table 8** shows the solid waste GHG emissions from the Project.

### Water-Related Energy Usage

Electricity is also indirectly used in water supply, treatment, and distribution, as well as wastewater treatment in Southern California and plays a large role in GHG production. There are three processes necessary to supply potable water to urban users (i.e., residential, commercial, and industrial): (1) supply and conveyance of the water from the source; (2) treatment of the water to potable standards; and (3) distribution of the water to individual users. After use, the wastewater is treated and either reused as reclaimed/recycled water or returned to the environment. CalEEMod calculates the GHG emissions from these processes based on default emissions factors and water/wastewater generation rates for a project’s location. Default values were used for electricity intensity factor associated with the supply and conveyance of water from its source which assumes that the water is being imported from Northern California. **Table 8** shows the GHG emissions from water-related energy usage for the Project.

### Total Project GHG Emissions

As shown in **Table 8 – Total Project-Related GHG Emissions**, using all the emissions quantified above, the total GHG emissions generated from the Project is approximately 18.73 MTCO<sub>2</sub>E/yr which includes construction-related emissions amortized over a typical project life of 30 years.

**Table 8 – Total Project-Related GHG Emissions**

Source	Metric Tons per year (MT/yr)			
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	Total CO <sub>2</sub> E
Amortized Construction	--	--	--	5.12
Area	0.00	0.00	0.00	0.00
Energy	6.27	0.00	0.00	6.30
Mobile	2.33	0.00	0.00	2.36
Solid Waste	0.04	0.00	0.00	0.09
Water	4.84	0.00	0.00	4.86
<b>Total</b>	<b>13.48</b>	<b>0.00</b>	<b>0.00</b>	<b>18.73</b>

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

The total GHG emissions from the Project are below the SCAQMD screening threshold level of 3,000 MTCO<sub>2</sub>E/yr for non-industrial projects.

- **Conclusion**

The conclusion of this analysis indicates that construction of the proposed Project will not exceed criteria pollutant thresholds established by SCAQMD on a regional or localized level and no mitigation is required. The Project's GHG emissions will also not exceed the SCAQMD interim threshold of 3,000 MTCO<sub>2</sub>E/yr.

Should you have any questions, please contact me at (951) 686-1070.



## **CALEEMOD OUTPUT FILES**

4th Street Park Extension - Riverside-South Coast County, Summer

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

**4th Street Park Extension  
Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	0.26	Acre	0.26	11,447.57	0
City Park	2.06	Acre	2.06	89,559.36	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>	2023
<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 - Per Site Plan
- Construction Phase - Per City
- Off-road Equipment - 8 hour day
- Off-road Equipment - 8 hour day
- Off-road Equipment - 8 hour day
- Off-road Equipment - 8 hour day
- Trips and VMT - 2 daily water truck trips added to grading and paving activities per Rule 403
- Grading -
- Energy Use - Parking lot lighting rate applied to City Park land use to account for park lighting.
- Construction Off-road Equipment Mitigation - Per Rule 403

4th Street Park Extension - Riverside-South Coast County, Summer

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	100.00
tblConstructionPhase	NumDays	6.00	4.00
tblEnergyUse	LightingElect	0.00	0.35
tblLandUse	LandUseSquareFeet	11,325.60	11,447.57
tblLandUse	LandUseSquareFeet	89,733.60	89,559.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

**2.0 Emissions Summary**

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4th Street Park Extension - Riverside-South Coast County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0252	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		5.1000e-004	5.1000e-004	0.0000		5.4000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0137	0.0171	0.1252	2.8000e-004	0.0274	2.2000e-004	0.0277	7.3200e-003	2.0000e-004	7.5200e-003		28.4302	28.4302	1.4400e-003	1.3500e-003	28.8687
<b>Total</b>	<b>0.0389</b>	<b>0.0171</b>	<b>0.1255</b>	<b>2.8000e-004</b>	<b>0.0274</b>	<b>2.2000e-004</b>	<b>0.0277</b>	<b>7.3200e-003</b>	<b>2.0000e-004</b>	<b>7.5200e-003</b>		<b>28.4307</b>	<b>28.4307</b>	<b>1.4400e-003</b>	<b>1.3500e-003</b>	<b>28.8692</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0252	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		5.1000e-004	5.1000e-004	0.0000		5.4000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0137	0.0171	0.1252	2.8000e-004	0.0274	2.2000e-004	0.0277	7.3200e-003	2.0000e-004	7.5200e-003		28.4302	28.4302	1.4400e-003	1.3500e-003	28.8687
<b>Total</b>	<b>0.0389</b>	<b>0.0171</b>	<b>0.1255</b>	<b>2.8000e-004</b>	<b>0.0274</b>	<b>2.2000e-004</b>	<b>0.0277</b>	<b>7.3200e-003</b>	<b>2.0000e-004</b>	<b>7.5200e-003</b>		<b>28.4307</b>	<b>28.4307</b>	<b>1.4400e-003</b>	<b>1.3500e-003</b>	<b>28.8692</b>

4th Street Park Extension - Riverside-South Coast County, Summer

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2023	1/5/2023	5	4	
2	Building Construction	Building Construction	1/6/2023	5/25/2023	5	100	
3	Paving	Paving	5/26/2023	6/8/2023	5	10	
4	Architectural Coating	Architectural Coating	6/9/2023	6/22/2023	5	10	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0.26**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,050; Non-Residential Outdoor: 350; Striped Parking Area: 687 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37

4th Street Park Extension - Riverside-South Coast County, Summer

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

Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	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
Grading	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	42.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

4th Street Park Extension - Riverside-South Coast County, Summer

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

**3.2 Grading - 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					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.3709	14.8515	9.2616	0.0214		0.6233	0.6233		0.5734	0.5734		2,071.0089	2,071.0089	0.6698		2,087.7540
<b>Total</b>	<b>1.3709</b>	<b>14.8515</b>	<b>9.2616</b>	<b>0.0214</b>	<b>7.0826</b>	<b>0.6233</b>	<b>7.7059</b>	<b>3.4247</b>	<b>0.5734</b>	<b>3.9982</b>		<b>2,071.0089</b>	<b>2,071.0089</b>	<b>0.6698</b>		<b>2,087.7540</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0653	0.0269	3.5000e-004	0.0128	5.7000e-004	0.0134	3.6900e-003	5.4000e-004	4.2300e-003		37.0542	37.0542	3.8000e-004	5.4800e-003	38.6954
Worker	0.0365	0.0226	0.3659	9.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		99.3740	99.3740	2.3000e-003	2.3500e-003	100.1306
<b>Total</b>	<b>0.0388</b>	<b>0.0879</b>	<b>0.3928</b>	<b>1.3300e-003</b>	<b>0.1246</b>	<b>1.0900e-003</b>	<b>0.1257</b>	<b>0.0333</b>	<b>1.0200e-003</b>	<b>0.0344</b>		<b>136.4282</b>	<b>136.4282</b>	<b>2.6800e-003</b>	<b>7.8300e-003</b>	<b>138.8259</b>



4th Street Park Extension - Riverside-South Coast County, Summer

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

**3.2 Grading - 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	lb/day										lb/day					
Fugitive Dust					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			0.0000			0.0000
Off-Road	1.3709	14.8515	9.2616	0.0214		0.6233	0.6233		0.5734	0.5734	0.0000	2,071.0089	2,071.0089	0.6698		2,087.7540
<b>Total</b>	<b>1.3709</b>	<b>14.8515</b>	<b>9.2616</b>	<b>0.0214</b>	<b>2.7622</b>	<b>0.6233</b>	<b>3.3855</b>	<b>1.3357</b>	<b>0.5734</b>	<b>1.9091</b>	<b>0.0000</b>	<b>2,071.0089</b>	<b>2,071.0089</b>	<b>0.6698</b>		<b>2,087.7540</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0653	0.0269	3.5000e-004	0.0128	5.7000e-004	0.0134	3.6900e-003	5.4000e-004	4.2300e-003		37.0542	37.0542	3.8000e-004	5.4800e-003	38.6954
Worker	0.0365	0.0226	0.3659	9.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		99.3740	99.3740	2.3000e-003	2.3500e-003	100.1306
<b>Total</b>	<b>0.0388</b>	<b>0.0879</b>	<b>0.3928</b>	<b>1.3300e-003</b>	<b>0.1246</b>	<b>1.0900e-003</b>	<b>0.1257</b>	<b>0.0333</b>	<b>1.0200e-003</b>	<b>0.0344</b>		<b>136.4282</b>	<b>136.4282</b>	<b>2.6800e-003</b>	<b>7.8300e-003</b>	<b>138.8259</b>

4th Street Park Extension - Riverside-South Coast County, Summer

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

**3.3 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	1.7771	14.2478	15.0585	0.0262		0.6474	0.6474		0.6191	0.6191		2,401.925 2	2,401.925 2	0.4693		2,413.658 5
<b>Total</b>	<b>1.7771</b>	<b>14.2478</b>	<b>15.0585</b>	<b>0.0262</b>		<b>0.6474</b>	<b>0.6474</b>		<b>0.6191</b>	<b>0.6191</b>		<b>2,401.925 2</b>	<b>2,401.925 2</b>	<b>0.4693</b>		<b>2,413.658 5</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0192	0.5554	0.2287	2.9700e-003	0.1089	4.8400e-003	0.1137	0.0314	4.6300e-003	0.0360		314.9607	314.9607	3.2100e-003	0.0465	328.9104
Worker	0.1534	0.0948	1.5367	4.1300e-003	0.4695	2.2000e-003	0.4717	0.1245	2.0200e-003	0.1265		417.3709	417.3709	9.6500e-003	9.8500e-003	420.5484
<b>Total</b>	<b>0.1725</b>	<b>0.6502</b>	<b>1.7654</b>	<b>7.1000e-003</b>	<b>0.5784</b>	<b>7.0400e-003</b>	<b>0.5854</b>	<b>0.1559</b>	<b>6.6500e-003</b>	<b>0.1625</b>		<b>732.3316</b>	<b>732.3316</b>	<b>0.0129</b>	<b>0.0564</b>	<b>749.4589</b>

4th Street Park Extension - Riverside-South Coast County, Summer

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

**3.3 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	lb/day										lb/day					
Off-Road	1.7771	14.2478	15.0585	0.0262		0.6474	0.6474		0.6191	0.6191	0.0000	2,401.925 2	2,401.925 2	0.4693		2,413.658 5
<b>Total</b>	<b>1.7771</b>	<b>14.2478</b>	<b>15.0585</b>	<b>0.0262</b>		<b>0.6474</b>	<b>0.6474</b>		<b>0.6191</b>	<b>0.6191</b>	<b>0.0000</b>	<b>2,401.925 2</b>	<b>2,401.925 2</b>	<b>0.4693</b>		<b>2,413.658 5</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0192	0.5554	0.2287	2.9700e-003	0.1089	4.8400e-003	0.1137	0.0314	4.6300e-003	0.0360		314.9607	314.9607	3.2100e-003	0.0465	328.9104
Worker	0.1534	0.0948	1.5367	4.1300e-003	0.4695	2.2000e-003	0.4717	0.1245	2.0200e-003	0.1265		417.3709	417.3709	9.6500e-003	9.8500e-003	420.5484
<b>Total</b>	<b>0.1725</b>	<b>0.6502</b>	<b>1.7654</b>	<b>7.1000e-003</b>	<b>0.5784</b>	<b>7.0400e-003</b>	<b>0.5854</b>	<b>0.1559</b>	<b>6.6500e-003</b>	<b>0.1625</b>		<b>732.3316</b>	<b>732.3316</b>	<b>0.0129</b>	<b>0.0564</b>	<b>749.4589</b>

4th Street Park Extension - Riverside-South Coast County, Summer

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

**3.4 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	0.5558	5.3968	7.2751	0.0112		0.2673	0.2673		0.2470	0.2470		1,061.4178	1,061.4178	0.3322		1,069.7226
Paving	0.0681					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6239</b>	<b>5.3968</b>	<b>7.2751</b>	<b>0.0112</b>		<b>0.2673</b>	<b>0.2673</b>		<b>0.2470</b>	<b>0.2470</b>		<b>1,061.4178</b>	<b>1,061.4178</b>	<b>0.3322</b>		<b>1,069.7226</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0653	0.0269	3.5000e-004	0.0128	5.7000e-004	0.0134	3.6900e-003	5.4000e-004	4.2300e-003		37.0542	37.0542	3.8000e-004	5.4800e-003	38.6954
Worker	0.0365	0.0226	0.3659	9.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		99.3740	99.3740	2.3000e-003	2.3500e-003	100.1306
<b>Total</b>	<b>0.0388</b>	<b>0.0879</b>	<b>0.3928</b>	<b>1.3300e-003</b>	<b>0.1246</b>	<b>1.0900e-003</b>	<b>0.1257</b>	<b>0.0333</b>	<b>1.0200e-003</b>	<b>0.0344</b>		<b>136.4282</b>	<b>136.4282</b>	<b>2.6800e-003</b>	<b>7.8300e-003</b>	<b>138.8259</b>

4th Street Park Extension - Riverside-South Coast County, Summer

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

**3.4 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	lb/day										lb/day					
Off-Road	0.5558	5.3968	7.2751	0.0112		0.2673	0.2673		0.2470	0.2470	0.0000	1,061.4178	1,061.4178	0.3322		1,069.7226
Paving	0.0681					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6239</b>	<b>5.3968</b>	<b>7.2751</b>	<b>0.0112</b>		<b>0.2673</b>	<b>0.2673</b>		<b>0.2470</b>	<b>0.2470</b>	<b>0.0000</b>	<b>1,061.4178</b>	<b>1,061.4178</b>	<b>0.3322</b>		<b>1,069.7226</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0653	0.0269	3.5000e-004	0.0128	5.7000e-004	0.0134	3.6900e-003	5.4000e-004	4.2300e-003		37.0542	37.0542	3.8000e-004	5.4800e-003	38.6954
Worker	0.0365	0.0226	0.3659	9.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		99.3740	99.3740	2.3000e-003	2.3500e-003	100.1306
<b>Total</b>	<b>0.0388</b>	<b>0.0879</b>	<b>0.3928</b>	<b>1.3300e-003</b>	<b>0.1246</b>	<b>1.0900e-003</b>	<b>0.1257</b>	<b>0.0333</b>	<b>1.0200e-003</b>	<b>0.0344</b>		<b>136.4282</b>	<b>136.4282</b>	<b>2.6800e-003</b>	<b>7.8300e-003</b>	<b>138.8259</b>

4th Street Park Extension - Riverside-South Coast County, Summer

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

**3.5 Architectural Coating - 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	0.9673					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
<b>Total</b>	<b>1.2229</b>	<b>1.7373</b>	<b>2.4148</b>	<b>3.9600e-003</b>		<b>0.0944</b>	<b>0.0944</b>		<b>0.0944</b>	<b>0.0944</b>		<b>375.2641</b>	<b>375.2641</b>	<b>0.0225</b>		<b>375.8253</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0292	0.0181	0.2927	7.9000e-004	0.0894	4.2000e-004	0.0898	0.0237	3.8000e-004	0.0241		79.4992	79.4992	1.8400e-003	1.8800e-003	80.1045
<b>Total</b>	<b>0.0292</b>	<b>0.0181</b>	<b>0.2927</b>	<b>7.9000e-004</b>	<b>0.0894</b>	<b>4.2000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.8000e-004</b>	<b>0.0241</b>		<b>79.4992</b>	<b>79.4992</b>	<b>1.8400e-003</b>	<b>1.8800e-003</b>	<b>80.1045</b>

4th Street Park Extension - Riverside-South Coast County, Summer

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

**3.5 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	0.9673					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
<b>Total</b>	<b>1.2229</b>	<b>1.7373</b>	<b>2.4148</b>	<b>3.9600e-003</b>		<b>0.0944</b>	<b>0.0944</b>		<b>0.0944</b>	<b>0.0944</b>	<b>0.0000</b>	<b>375.2641</b>	<b>375.2641</b>	<b>0.0225</b>		<b>375.8253</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0292	0.0181	0.2927	7.9000e-004	0.0894	4.2000e-004	0.0898	0.0237	3.8000e-004	0.0241		79.4992	79.4992	1.8400e-003	1.8800e-003	80.1045
<b>Total</b>	<b>0.0292</b>	<b>0.0181</b>	<b>0.2927</b>	<b>7.9000e-004</b>	<b>0.0894</b>	<b>4.2000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.8000e-004</b>	<b>0.0241</b>		<b>79.4992</b>	<b>79.4992</b>	<b>1.8400e-003</b>	<b>1.8800e-003</b>	<b>80.1045</b>

4th Street Park Extension - Riverside-South Coast County, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0137	0.0171	0.1252	2.8000e-004	0.0274	2.2000e-004	0.0277	7.3200e-003	2.0000e-004	7.5200e-003		28.4302	28.4302	1.4400e-003	1.3500e-003	28.8687
Unmitigated	0.0137	0.0171	0.1252	2.8000e-004	0.0274	2.2000e-004	0.0277	7.3200e-003	2.0000e-004	7.5200e-003		28.4302	28.4302	1.4400e-003	1.3500e-003	28.8687

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	1.61	4.04	4.51	6,817	6,817
Parking Lot	0.00	0.00	0.00		
Total	1.61	4.04	4.51	6,817	6,817

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**



4th Street Park Extension - Riverside-South Coast County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Parking Lot	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468

**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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4th Street Park Extension - Riverside-South Coast County, Summer

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</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>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</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>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

4th Street Park Extension - Riverside-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	lb/day										lb/day					
Mitigated	0.0252	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		5.1000e-004	5.1000e-004	0.0000		5.4000e-004
Unmitigated	0.0252	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		5.1000e-004	5.1000e-004	0.0000		5.4000e-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	lb/day										lb/day					
Architectural Coating	2.6500e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0225					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		5.1000e-004	5.1000e-004	0.0000		5.4000e-004
<b>Total</b>	<b>0.0252</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>		<b>5.4000e-004</b>

4th Street Park Extension - Riverside-South Coast County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.6500e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0225					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		5.1000e-004	5.1000e-004	0.0000		5.4000e-004
<b>Total</b>	<b>0.0252</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>		<b>5.4000e-004</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

4th Street Park Extension - Riverside-South Coast County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**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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4th Street Park Extension - Riverside-South Coast County, Winter

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

**4th Street Park Extension  
Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	0.26	Acre	0.26	11,447.57	0
City Park	2.06	Acre	2.06	89,559.36	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>	2023
<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 - Per Site Plan
- Construction Phase - Per City
- Off-road Equipment - 8 hour day
- Off-road Equipment - 8 hour day
- Off-road Equipment - 8 hour day
- Off-road Equipment - 8 hour day
- Trips and VMT - 2 daily water truck trips added to grading and paving activities per Rule 403
- Grading -
- Energy Use - Parking lot lighting rate applied to City Park land use to account for park lighting.
- Construction Off-road Equipment Mitigation - Per Rule 403

4th Street Park Extension - Riverside-South Coast County, Winter

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	100.00
tblConstructionPhase	NumDays	6.00	4.00
tblEnergyUse	LightingElect	0.00	0.35
tblLandUse	LandUseSquareFeet	11,325.60	11,447.57
tblLandUse	LandUseSquareFeet	89,733.60	89,559.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

**2.0 Emissions Summary**

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4th Street Park Extension - Riverside-South Coast County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0252	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		5.1000e-004	5.1000e-004	0.0000		5.4000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0116	0.0181	0.1114	2.6000e-004	0.0274	2.2000e-004	0.0277	7.3200e-003	2.0000e-004	7.5200e-003		26.4108	26.4108	1.4900e-003	1.3800e-003	26.8589
<b>Total</b>	<b>0.0367</b>	<b>0.0181</b>	<b>0.1116</b>	<b>2.6000e-004</b>	<b>0.0274</b>	<b>2.2000e-004</b>	<b>0.0277</b>	<b>7.3200e-003</b>	<b>2.0000e-004</b>	<b>7.5200e-003</b>		<b>26.4113</b>	<b>26.4113</b>	<b>1.4900e-003</b>	<b>1.3800e-003</b>	<b>26.8594</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0252	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		5.1000e-004	5.1000e-004	0.0000		5.4000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0116	0.0181	0.1114	2.6000e-004	0.0274	2.2000e-004	0.0277	7.3200e-003	2.0000e-004	7.5200e-003		26.4108	26.4108	1.4900e-003	1.3800e-003	26.8589
<b>Total</b>	<b>0.0367</b>	<b>0.0181</b>	<b>0.1116</b>	<b>2.6000e-004</b>	<b>0.0274</b>	<b>2.2000e-004</b>	<b>0.0277</b>	<b>7.3200e-003</b>	<b>2.0000e-004</b>	<b>7.5200e-003</b>		<b>26.4113</b>	<b>26.4113</b>	<b>1.4900e-003</b>	<b>1.3800e-003</b>	<b>26.8594</b>

4th Street Park Extension - Riverside-South Coast County, Winter

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

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2023	1/5/2023	5	4	
2	Building Construction	Building Construction	1/6/2023	5/25/2023	5	100	
3	Paving	Paving	5/26/2023	6/8/2023	5	10	
4	Architectural Coating	Architectural Coating	6/9/2023	6/22/2023	5	10	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0.26**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,050; Non-Residential Outdoor: 350; Striped Parking Area: 687 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37

4th Street Park Extension - Riverside-South Coast County, Winter

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

Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	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
Grading	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	42.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

4th Street Park Extension - Riverside-South Coast County, Winter

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

**3.2 Grading - 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					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.3709	14.8515	9.2616	0.0214		0.6233	0.6233		0.5734	0.5734		2,071.0089	2,071.0089	0.6698		2,087.7540
<b>Total</b>	<b>1.3709</b>	<b>14.8515</b>	<b>9.2616</b>	<b>0.0214</b>	<b>7.0826</b>	<b>0.6233</b>	<b>7.7059</b>	<b>3.4247</b>	<b>0.5734</b>	<b>3.9982</b>		<b>2,071.0089</b>	<b>2,071.0089</b>	<b>0.6698</b>		<b>2,087.7540</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0693	0.0278	3.5000e-004	0.0128	5.7000e-004	0.0134	3.6900e-003	5.5000e-004	4.2300e-003		37.1462	37.1462	3.7000e-004	5.4900e-003	38.7926
Worker	0.0342	0.0234	0.2971	8.9000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		90.0423	90.0423	2.2900e-003	2.4000e-003	90.8151
<b>Total</b>	<b>0.0363</b>	<b>0.0927</b>	<b>0.3249</b>	<b>1.2400e-003</b>	<b>0.1246</b>	<b>1.0900e-003</b>	<b>0.1257</b>	<b>0.0333</b>	<b>1.0300e-003</b>	<b>0.0344</b>		<b>127.1885</b>	<b>127.1885</b>	<b>2.6600e-003</b>	<b>7.8900e-003</b>	<b>129.6076</b>

4th Street Park Extension - Riverside-South Coast County, Winter

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

**3.2 Grading - 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	lb/day										lb/day					
Fugitive Dust					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			0.0000			0.0000
Off-Road	1.3709	14.8515	9.2616	0.0214		0.6233	0.6233		0.5734	0.5734	0.0000	2,071.0089	2,071.0089	0.6698		2,087.7540
<b>Total</b>	<b>1.3709</b>	<b>14.8515</b>	<b>9.2616</b>	<b>0.0214</b>	<b>2.7622</b>	<b>0.6233</b>	<b>3.3855</b>	<b>1.3357</b>	<b>0.5734</b>	<b>1.9091</b>	<b>0.0000</b>	<b>2,071.0089</b>	<b>2,071.0089</b>	<b>0.6698</b>		<b>2,087.7540</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0693	0.0278	3.5000e-004	0.0128	5.7000e-004	0.0134	3.6900e-003	5.5000e-004	4.2300e-003		37.1462	37.1462	3.7000e-004	5.4900e-003	38.7926
Worker	0.0342	0.0234	0.2971	8.9000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		90.0423	90.0423	2.2900e-003	2.4000e-003	90.8151
<b>Total</b>	<b>0.0363</b>	<b>0.0927</b>	<b>0.3249</b>	<b>1.2400e-003</b>	<b>0.1246</b>	<b>1.0900e-003</b>	<b>0.1257</b>	<b>0.0333</b>	<b>1.0300e-003</b>	<b>0.0344</b>		<b>127.1885</b>	<b>127.1885</b>	<b>2.6600e-003</b>	<b>7.8900e-003</b>	<b>129.6076</b>

4th Street Park Extension - Riverside-South Coast County, Winter

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

**3.3 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	1.7771	14.2478	15.0585	0.0262		0.6474	0.6474		0.6191	0.6191		2,401.925 2	2,401.925 2	0.4693		2,413.658 5
<b>Total</b>	<b>1.7771</b>	<b>14.2478</b>	<b>15.0585</b>	<b>0.0262</b>		<b>0.6474</b>	<b>0.6474</b>		<b>0.6191</b>	<b>0.6191</b>		<b>2,401.925 2</b>	<b>2,401.925 2</b>	<b>0.4693</b>		<b>2,413.658 5</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0177	0.5890	0.2364	2.9800e-003	0.1089	4.8500e-003	0.1137	0.0314	4.6400e-003	0.0360		315.7424	315.7424	3.1500e-003	0.0467	329.7367
Worker	0.1437	0.0983	1.2478	3.7400e-003	0.4695	2.2000e-003	0.4717	0.1245	2.0200e-003	0.1265		378.1779	378.1779	9.6200e-003	0.0101	381.4234
<b>Total</b>	<b>0.1615</b>	<b>0.6873</b>	<b>1.4842</b>	<b>6.7200e-003</b>	<b>0.5784</b>	<b>7.0500e-003</b>	<b>0.5854</b>	<b>0.1559</b>	<b>6.6600e-003</b>	<b>0.1625</b>		<b>693.9202</b>	<b>693.9202</b>	<b>0.0128</b>	<b>0.0568</b>	<b>711.1601</b>

4th Street Park Extension - Riverside-South Coast County, Winter

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

**3.3 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	lb/day										lb/day					
Off-Road	1.7771	14.2478	15.0585	0.0262		0.6474	0.6474		0.6191	0.6191	0.0000	2,401.925 2	2,401.925 2	0.4693		2,413.658 5
<b>Total</b>	<b>1.7771</b>	<b>14.2478</b>	<b>15.0585</b>	<b>0.0262</b>		<b>0.6474</b>	<b>0.6474</b>		<b>0.6191</b>	<b>0.6191</b>	<b>0.0000</b>	<b>2,401.925 2</b>	<b>2,401.925 2</b>	<b>0.4693</b>		<b>2,413.658 5</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0177	0.5890	0.2364	2.9800e-003	0.1089	4.8500e-003	0.1137	0.0314	4.6400e-003	0.0360		315.7424	315.7424	3.1500e-003	0.0467	329.7367
Worker	0.1437	0.0983	1.2478	3.7400e-003	0.4695	2.2000e-003	0.4717	0.1245	2.0200e-003	0.1265		378.1779	378.1779	9.6200e-003	0.0101	381.4234
<b>Total</b>	<b>0.1615</b>	<b>0.6873</b>	<b>1.4842</b>	<b>6.7200e-003</b>	<b>0.5784</b>	<b>7.0500e-003</b>	<b>0.5854</b>	<b>0.1559</b>	<b>6.6600e-003</b>	<b>0.1625</b>		<b>693.9202</b>	<b>693.9202</b>	<b>0.0128</b>	<b>0.0568</b>	<b>711.1601</b>

4th Street Park Extension - Riverside-South Coast County, Winter

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

**3.4 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	0.5558	5.3968	7.2751	0.0112		0.2673	0.2673		0.2470	0.2470		1,061.4178	1,061.4178	0.3322		1,069.7226
Paving	0.0681					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6239</b>	<b>5.3968</b>	<b>7.2751</b>	<b>0.0112</b>		<b>0.2673</b>	<b>0.2673</b>		<b>0.2470</b>	<b>0.2470</b>		<b>1,061.4178</b>	<b>1,061.4178</b>	<b>0.3322</b>		<b>1,069.7226</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0693	0.0278	3.5000e-004	0.0128	5.7000e-004	0.0134	3.6900e-003	5.5000e-004	4.2300e-003		37.1462	37.1462	3.7000e-004	5.4900e-003	38.7926
Worker	0.0342	0.0234	0.2971	8.9000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		90.0423	90.0423	2.2900e-003	2.4000e-003	90.8151
<b>Total</b>	<b>0.0363</b>	<b>0.0927</b>	<b>0.3249</b>	<b>1.2400e-003</b>	<b>0.1246</b>	<b>1.0900e-003</b>	<b>0.1257</b>	<b>0.0333</b>	<b>1.0300e-003</b>	<b>0.0344</b>		<b>127.1885</b>	<b>127.1885</b>	<b>2.6600e-003</b>	<b>7.8900e-003</b>	<b>129.6076</b>



4th Street Park Extension - Riverside-South Coast County, Winter

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

**3.4 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	lb/day										lb/day					
Off-Road	0.5558	5.3968	7.2751	0.0112		0.2673	0.2673		0.2470	0.2470	0.0000	1,061.4178	1,061.4178	0.3322		1,069.7226
Paving	0.0681					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6239</b>	<b>5.3968</b>	<b>7.2751</b>	<b>0.0112</b>		<b>0.2673</b>	<b>0.2673</b>		<b>0.2470</b>	<b>0.2470</b>	<b>0.0000</b>	<b>1,061.4178</b>	<b>1,061.4178</b>	<b>0.3322</b>		<b>1,069.7226</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0693	0.0278	3.5000e-004	0.0128	5.7000e-004	0.0134	3.6900e-003	5.5000e-004	4.2300e-003		37.1462	37.1462	3.7000e-004	5.4900e-003	38.7926
Worker	0.0342	0.0234	0.2971	8.9000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		90.0423	90.0423	2.2900e-003	2.4000e-003	90.8151
<b>Total</b>	<b>0.0363</b>	<b>0.0927</b>	<b>0.3249</b>	<b>1.2400e-003</b>	<b>0.1246</b>	<b>1.0900e-003</b>	<b>0.1257</b>	<b>0.0333</b>	<b>1.0300e-003</b>	<b>0.0344</b>		<b>127.1885</b>	<b>127.1885</b>	<b>2.6600e-003</b>	<b>7.8900e-003</b>	<b>129.6076</b>

4th Street Park Extension - Riverside-South Coast County, Winter

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

**3.5 Architectural Coating - 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	0.9673					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
<b>Total</b>	<b>1.2229</b>	<b>1.7373</b>	<b>2.4148</b>	<b>3.9600e-003</b>		<b>0.0944</b>	<b>0.0944</b>		<b>0.0944</b>	<b>0.0944</b>		<b>375.2641</b>	<b>375.2641</b>	<b>0.0225</b>		<b>375.8253</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0274	0.0187	0.2377	7.1000e-004	0.0894	4.2000e-004	0.0898	0.0237	3.8000e-004	0.0241		72.0339	72.0339	1.8300e-003	1.9200e-003	72.6521
<b>Total</b>	<b>0.0274</b>	<b>0.0187</b>	<b>0.2377</b>	<b>7.1000e-004</b>	<b>0.0894</b>	<b>4.2000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.8000e-004</b>	<b>0.0241</b>		<b>72.0339</b>	<b>72.0339</b>	<b>1.8300e-003</b>	<b>1.9200e-003</b>	<b>72.6521</b>

4th Street Park Extension - Riverside-South Coast County, Winter

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

**3.5 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	0.9673					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
<b>Total</b>	<b>1.2229</b>	<b>1.7373</b>	<b>2.4148</b>	<b>3.9600e-003</b>		<b>0.0944</b>	<b>0.0944</b>		<b>0.0944</b>	<b>0.0944</b>	<b>0.0000</b>	<b>375.2641</b>	<b>375.2641</b>	<b>0.0225</b>		<b>375.8253</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0274	0.0187	0.2377	7.1000e-004	0.0894	4.2000e-004	0.0898	0.0237	3.8000e-004	0.0241		72.0339	72.0339	1.8300e-003	1.9200e-003	72.6521
<b>Total</b>	<b>0.0274</b>	<b>0.0187</b>	<b>0.2377</b>	<b>7.1000e-004</b>	<b>0.0894</b>	<b>4.2000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.8000e-004</b>	<b>0.0241</b>		<b>72.0339</b>	<b>72.0339</b>	<b>1.8300e-003</b>	<b>1.9200e-003</b>	<b>72.6521</b>

4th Street Park Extension - Riverside-South Coast County, Winter

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0116	0.0181	0.1114	2.6000e-004	0.0274	2.2000e-004	0.0277	7.3200e-003	2.0000e-004	7.5200e-003		26.4108	26.4108	1.4900e-003	1.3800e-003	26.8589
Unmitigated	0.0116	0.0181	0.1114	2.6000e-004	0.0274	2.2000e-004	0.0277	7.3200e-003	2.0000e-004	7.5200e-003		26.4108	26.4108	1.4900e-003	1.3800e-003	26.8589

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	1.61	4.04	4.51	6,817	6,817
Parking Lot	0.00	0.00	0.00		
Total	1.61	4.04	4.51	6,817	6,817

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

4th Street Park Extension - Riverside-South Coast County, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Parking Lot	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468

**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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4th Street Park Extension - Riverside-South Coast County, Winter

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</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>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</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>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

4th Street Park Extension - Riverside-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	lb/day										lb/day					
Mitigated	0.0252	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		5.1000e-004	5.1000e-004	0.0000		5.4000e-004
Unmitigated	0.0252	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		5.1000e-004	5.1000e-004	0.0000		5.4000e-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	lb/day										lb/day					
Architectural Coating	2.6500e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0225					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		5.1000e-004	5.1000e-004	0.0000		5.4000e-004
<b>Total</b>	<b>0.0252</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>		<b>5.4000e-004</b>

4th Street Park Extension - Riverside-South Coast County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.6500e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0225					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-005	0.0000	2.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		5.1000e-004	5.1000e-004	0.0000		5.4000e-004
<b>Total</b>	<b>0.0252</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>		<b>5.4000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



4th Street Park Extension - Riverside-South Coast County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

**4th Street Park Extension  
Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	0.26	Acre	0.26	11,447.57	0
City Park	2.06	Acre	2.06	89,559.36	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>	2023
<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 - Per Site Plan
- Construction Phase - Per City
- Off-road Equipment - 8 hour day
- Off-road Equipment - 8 hour day
- Off-road Equipment - 8 hour day
- Off-road Equipment - 8 hour day
- Trips and VMT - 2 daily water truck trips added to grading and paving activities per Rule 403
- Grading -
- Energy Use - Parking lot lighting rate applied to City Park land use to account for park lighting.
- Construction Off-road Equipment Mitigation - Per Rule 403

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	100.00
tblConstructionPhase	NumDays	6.00	4.00
tblEnergyUse	LightingElect	0.00	0.35
tblLandUse	LandUseSquareFeet	11,325.60	11,447.57
tblLandUse	LandUseSquareFeet	89,733.60	89,559.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

**2.0 Emissions Summary**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	0.5414	0.5414
2	4-1-2023	6-30-2023	0.3767	0.3767
		Highest	0.5414	0.5414

**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	4.5900e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-005	6.0000e-005	0.0000	0.0000	6.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.2696	6.2696	5.3000e-004	6.0000e-005	6.3019
Mobile	1.1200e-003	1.7400e-003	0.0110	3.0000e-005	2.5800e-003	2.0000e-005	2.6000e-003	6.9000e-004	2.0000e-005	7.1000e-004	0.0000	2.3259	2.3259	1.3000e-004	1.2000e-004	2.3649
Waste						0.0000	0.0000		0.0000	0.0000	0.0365	0.0000	0.0365	2.1600e-003	0.0000	0.0905
Water						0.0000	0.0000		0.0000	0.0000	0.0000	4.8360	4.8360	4.1000e-004	5.0000e-005	4.8610
<b>Total</b>	<b>5.7100e-003</b>	<b>1.7400e-003</b>	<b>0.0110</b>	<b>3.0000e-005</b>	<b>2.5800e-003</b>	<b>2.0000e-005</b>	<b>2.6000e-003</b>	<b>6.9000e-004</b>	<b>2.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0365</b>	<b>13.4316</b>	<b>13.4681</b>	<b>3.2300e-003</b>	<b>2.3000e-004</b>	<b>13.6184</b>

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.5900e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-005	6.0000e-005	0.0000	0.0000	6.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.2696	6.2696	5.3000e-004	6.0000e-005	6.3019
Mobile	1.1200e-003	1.7400e-003	0.0110	3.0000e-005	2.5800e-003	2.0000e-005	2.6000e-003	6.9000e-004	2.0000e-005	7.1000e-004	0.0000	2.3259	2.3259	1.3000e-004	1.2000e-004	2.3649
Waste						0.0000	0.0000		0.0000	0.0000	0.0365	0.0000	0.0365	2.1600e-003	0.0000	0.0905
Water						0.0000	0.0000		0.0000	0.0000	0.0000	4.8360	4.8360	4.1000e-004	5.0000e-005	4.8610
<b>Total</b>	<b>5.7100e-003</b>	<b>1.7400e-003</b>	<b>0.0110</b>	<b>3.0000e-005</b>	<b>2.5800e-003</b>	<b>2.0000e-005</b>	<b>2.6000e-003</b>	<b>6.9000e-004</b>	<b>2.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0365</b>	<b>13.4316</b>	<b>13.4681</b>	<b>3.2300e-003</b>	<b>2.3000e-004</b>	<b>13.6184</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	Grading	Grading	1/1/2023	1/5/2023	5	4	
2	Building Construction	Building Construction	1/6/2023	5/25/2023	5	100	
3	Paving	Paving	5/26/2023	6/8/2023	5	10	

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

4	Architectural Coating	Architectural Coating	6/9/2023	6/22/2023	5	10
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**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0.26**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,050; Non-Residential Outdoor: 350; Striped Parking Area: 687 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	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
Grading	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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

Building Construction	8	42.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	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 Grading - 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					
Fugitive Dust					0.0142	0.0000	0.0142	6.8500e-003	0.0000	6.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7400e-003	0.0297	0.0185	4.0000e-005		1.2500e-003	1.2500e-003		1.1500e-003	1.1500e-003	0.0000	3.7576	3.7576	1.2200e-003	0.0000	3.7880
<b>Total</b>	<b>2.7400e-003</b>	<b>0.0297</b>	<b>0.0185</b>	<b>4.0000e-005</b>	<b>0.0142</b>	<b>1.2500e-003</b>	<b>0.0154</b>	<b>6.8500e-003</b>	<b>1.1500e-003</b>	<b>8.0000e-003</b>	<b>0.0000</b>	<b>3.7576</b>	<b>3.7576</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>3.7880</b>



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

**3.2 Grading - 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	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	1.4000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0703
Worker	6.0000e-005	5.0000e-005	6.3000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1672	0.1672	0.0000	0.0000	0.1686
<b>Total</b>	<b>6.0000e-005</b>	<b>1.9000e-004</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2345</b>	<b>0.2345</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.2389</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					5.5200e-003	0.0000	5.5200e-003	2.6700e-003	0.0000	2.6700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7400e-003	0.0297	0.0185	4.0000e-005		1.2500e-003	1.2500e-003		1.1500e-003	1.1500e-003	0.0000	3.7576	3.7576	1.2200e-003	0.0000	3.7880
<b>Total</b>	<b>2.7400e-003</b>	<b>0.0297</b>	<b>0.0185</b>	<b>4.0000e-005</b>	<b>5.5200e-003</b>	<b>1.2500e-003</b>	<b>6.7700e-003</b>	<b>2.6700e-003</b>	<b>1.1500e-003</b>	<b>3.8200e-003</b>	<b>0.0000</b>	<b>3.7576</b>	<b>3.7576</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>3.7880</b>

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

**3.2 Grading - 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	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	1.4000e-004	5.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0673	0.0673	0.0000	1.0000e-005	0.0703
Worker	6.0000e-005	5.0000e-005	6.3000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1672	0.1672	0.0000	0.0000	0.1686
<b>Total</b>	<b>6.0000e-005</b>	<b>1.9000e-004</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2345</b>	<b>0.2345</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.2389</b>

**3.3 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	0.0889	0.7124	0.7529	1.3100e-003		0.0324	0.0324		0.0310	0.0310	0.0000	108.9495	108.9495	0.0213	0.0000	109.4817
<b>Total</b>	<b>0.0889</b>	<b>0.7124</b>	<b>0.7529</b>	<b>1.3100e-003</b>		<b>0.0324</b>	<b>0.0324</b>		<b>0.0310</b>	<b>0.0310</b>	<b>0.0000</b>	<b>108.9495</b>	<b>108.9495</b>	<b>0.0213</b>	<b>0.0000</b>	<b>109.4817</b>

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

**3.3 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	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	9.2000e-004	0.0291	0.0116	1.5000e-004	5.3700e-003	2.4000e-004	5.6100e-003	1.5500e-003	2.3000e-004	1.7800e-003	0.0000	14.3013	14.3013	1.4000e-004	2.1100e-003	14.9351
Worker	6.8100e-003	5.0500e-003	0.0658	1.9000e-004	0.0231	1.1000e-004	0.0232	6.1300e-003	1.0000e-004	6.2300e-003	0.0000	17.5529	17.5529	4.4000e-004	4.7000e-004	17.7028
<b>Total</b>	<b>7.7300e-003</b>	<b>0.0342</b>	<b>0.0774</b>	<b>3.4000e-004</b>	<b>0.0285</b>	<b>3.5000e-004</b>	<b>0.0288</b>	<b>7.6800e-003</b>	<b>3.3000e-004</b>	<b>8.0100e-003</b>	<b>0.0000</b>	<b>31.8542</b>	<b>31.8542</b>	<b>5.8000e-004</b>	<b>2.5800e-003</b>	<b>32.6378</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	0.0889	0.7124	0.7529	1.3100e-003		0.0324	0.0324		0.0310	0.0310	0.0000	108.9494	108.9494	0.0213	0.0000	109.4816
<b>Total</b>	<b>0.0889</b>	<b>0.7124</b>	<b>0.7529</b>	<b>1.3100e-003</b>		<b>0.0324</b>	<b>0.0324</b>		<b>0.0310</b>	<b>0.0310</b>	<b>0.0000</b>	<b>108.9494</b>	<b>108.9494</b>	<b>0.0213</b>	<b>0.0000</b>	<b>109.4816</b>

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

**3.3 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	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	9.2000e-004	0.0291	0.0116	1.5000e-004	5.3700e-003	2.4000e-004	5.6100e-003	1.5500e-003	2.3000e-004	1.7800e-003	0.0000	14.3013	14.3013	1.4000e-004	2.1100e-003	14.9351
Worker	6.8100e-003	5.0500e-003	0.0658	1.9000e-004	0.0231	1.1000e-004	0.0232	6.1300e-003	1.0000e-004	6.2300e-003	0.0000	17.5529	17.5529	4.4000e-004	4.7000e-004	17.7028
<b>Total</b>	<b>7.7300e-003</b>	<b>0.0342</b>	<b>0.0774</b>	<b>3.4000e-004</b>	<b>0.0285</b>	<b>3.5000e-004</b>	<b>0.0288</b>	<b>7.6800e-003</b>	<b>3.3000e-004</b>	<b>8.0100e-003</b>	<b>0.0000</b>	<b>31.8542</b>	<b>31.8542</b>	<b>5.8000e-004</b>	<b>2.5800e-003</b>	<b>32.6378</b>

**3.4 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	2.7800e-003	0.0270	0.0364	6.0000e-005		1.3400e-003	1.3400e-003		1.2400e-003	1.2400e-003	0.0000	4.8145	4.8145	1.5100e-003	0.0000	4.8522
Paving	3.4000e-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>3.1200e-003</b>	<b>0.0270</b>	<b>0.0364</b>	<b>6.0000e-005</b>		<b>1.3400e-003</b>	<b>1.3400e-003</b>		<b>1.2400e-003</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>4.8145</b>	<b>4.8145</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>4.8522</b>

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

**3.4 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	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	1.0000e-005	3.4000e-004	1.4000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1683	0.1683	0.0000	2.0000e-005	0.1757
Worker	1.6000e-004	1.2000e-004	1.5700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4179	0.4179	1.0000e-005	1.0000e-005	0.4215
<b>Total</b>	<b>1.7000e-004</b>	<b>4.6000e-004</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>6.2000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.5862</b>	<b>0.5862</b>	<b>1.0000e-005</b>	<b>3.0000e-005</b>	<b>0.5972</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	2.7800e-003	0.0270	0.0364	6.0000e-005		1.3400e-003	1.3400e-003		1.2400e-003	1.2400e-003	0.0000	4.8145	4.8145	1.5100e-003	0.0000	4.8522
Paving	3.4000e-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>3.1200e-003</b>	<b>0.0270</b>	<b>0.0364</b>	<b>6.0000e-005</b>		<b>1.3400e-003</b>	<b>1.3400e-003</b>		<b>1.2400e-003</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>4.8145</b>	<b>4.8145</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>4.8522</b>

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

**3.4 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	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	1.0000e-005	3.4000e-004	1.4000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1683	0.1683	0.0000	2.0000e-005	0.1757
Worker	1.6000e-004	1.2000e-004	1.5700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4179	0.4179	1.0000e-005	1.0000e-005	0.4215
<b>Total</b>	<b>1.7000e-004</b>	<b>4.6000e-004</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>6.2000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.5862</b>	<b>0.5862</b>	<b>1.0000e-005</b>	<b>3.0000e-005</b>	<b>0.5972</b>

**3.5 Architectural Coating - 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	4.8400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2800e-003	8.6900e-003	0.0121	2.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.7022	1.7022	1.0000e-004	0.0000	1.7047
<b>Total</b>	<b>6.1200e-003</b>	<b>8.6900e-003</b>	<b>0.0121</b>	<b>2.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.7022</b>	<b>1.7022</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.7047</b>

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

**3.5 Architectural Coating - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.0000e-004	1.2500e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3343	0.3343	1.0000e-005	1.0000e-005	0.3372
<b>Total</b>	<b>1.3000e-004</b>	<b>1.0000e-004</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.3343</b>	<b>0.3343</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3372</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	4.8400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2800e-003	8.6900e-003	0.0121	2.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.7022	1.7022	1.0000e-004	0.0000	1.7047
<b>Total</b>	<b>6.1200e-003</b>	<b>8.6900e-003</b>	<b>0.0121</b>	<b>2.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.7022</b>	<b>1.7022</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.7047</b>

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

**3.5 Architectural Coating - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.0000e-004	1.2500e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3343	0.3343	1.0000e-005	1.0000e-005	0.3372
<b>Total</b>	<b>1.3000e-004</b>	<b>1.0000e-004</b>	<b>1.2500e-003</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.3343</b>	<b>0.3343</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3372</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 Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1200e-003	1.7400e-003	0.0110	3.0000e-005	2.5800e-003	2.0000e-005	2.6000e-003	6.9000e-004	2.0000e-005	7.1000e-004	0.0000	2.3259	2.3259	1.3000e-004	1.2000e-004	2.3649
Unmitigated	1.1200e-003	1.7400e-003	0.0110	3.0000e-005	2.5800e-003	2.0000e-005	2.6000e-003	6.9000e-004	2.0000e-005	7.1000e-004	0.0000	2.3259	2.3259	1.3000e-004	1.2000e-004	2.3649

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	1.61	4.04	4.51	6,817	6,817
Parking Lot	0.00	0.00	0.00		
Total	1.61	4.04	4.51	6,817	6,817

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
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
City Park	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Parking Lot	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468

**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 Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	31345.8	5.5590	4.7000e-004	6.0000e-005	5.5877
Parking Lot	4006.65	0.7106	6.0000e-005	1.0000e-005	0.7142
<b>Total</b>		<b>6.2696</b>	<b>5.3000e-004</b>	<b>7.0000e-005</b>	<b>6.3019</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	31345.8	5.5590	4.7000e-004	6.0000e-005	5.5877
Parking Lot	4006.65	0.7106	6.0000e-005	1.0000e-005	0.7142
<b>Total</b>		<b>6.2696</b>	<b>5.3000e-004</b>	<b>7.0000e-005</b>	<b>6.3019</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 Not 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	4.5900e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-005	6.0000e-005	0.0000	0.0000	6.0000e-005
Unmitigated	4.5900e-003	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-005	6.0000e-005	0.0000	0.0000	6.0000e-005

**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	4.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.1000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-005	6.0000e-005	0.0000	0.0000	6.0000e-005
<b>Total</b>	<b>4.5800e-003</b>	<b>0.0000</b>	<b>3.0000e-005</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>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.1000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.0000e-005	6.0000e-005	0.0000	0.0000	6.0000e-005
<b>Total</b>	<b>4.5800e-003</b>	<b>0.0000</b>	<b>3.0000e-005</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>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.8360	4.1000e-004	5.0000e-005	4.8610
Unmitigated	4.8360	4.1000e-004	5.0000e-005	4.8610

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 2.45445	4.8360	4.1000e-004	5.0000e-005	4.8610
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.8360</b>	<b>4.1000e-004</b>	<b>5.0000e-005</b>	<b>4.8610</b>

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 2.45445	4.8360	4.1000e-004	5.0000e-005	4.8610
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.8360</b>	<b>4.1000e-004</b>	<b>5.0000e-005</b>	<b>4.8610</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0365	2.1600e-003	0.0000	0.0905
Unmitigated	0.0365	2.1600e-003	0.0000	0.0905



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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.18	0.0365	2.1600e-003	0.0000	0.0905
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0365</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>0.0905</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.18	0.0365	2.1600e-003	0.0000	0.0905
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0365</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>0.0905</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 Not 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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