

# CalEEMod Emission Summary

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**SUBJECT:** Summary of CalEEMod Model Runs and Output for the Iris Park Residential Project, Moreno Valley, California

## SECTION 1: PROJECT INFORMATION

### 1.1 - Project Name

Iris Park Residential Project, Moreno Valley, CA

### 1.2 - Project Location

The project site is located on the south side of Iris Avenue, about 500 feet east of Perris Boulevard, on APN 312-020-025. The project site is triangular in shape and has a gross acreage of approximately 10.82 acres, including 3.02 acres that is planned for development by the City of Moreno Valley as a public park and trail over the California Aqueduct.

### 1.3 - Project Description

Iris Park is a proposed 81-lot single-family detached subdivision. The community will have two gated access points off Iris Avenue. Three small park areas are spread out on the site. Residential lots would range from 2,197 sq. ft. to 4,741 sq. ft. Homes would range from 1,848 sq. ft. to 2,201 sq. ft., with 3 to 5 bedrooms and 2.5 to 3 baths. Homes would be two stories, include a back yard approximately 12 to 14 feet deep, and have an attached two-car garage. Three architectural styles are proposed: Spanish, French, and Farmhouse. The project overall would provide 217 parking spaces, including 162 garage spaces and 49 spaces on private streets

### 1.4 - Purpose of the Report

This report summarizes the results of the project construction and operational criteria pollutant and greenhouse gas (GHG) emissions and energy usage estimates using the California Emissions Estimator Model (CalEEMod Version 2016.3.2) land use emission model for use in preparing CEQA regulatory documentation. The estimated project emissions were compared to the recommended air quality and GHG significance thresholds recommended by the South Coast Air Quality Management District (SCAQMD).

### 1.5 - Conclusions

- The construction and operation of the project would not exceed any project-level criteria pollutant regional or localized emission significance threshold adopted by the SCAQMD. Therefore, the project would result in a less than significant impact and no mitigation is required.

- The construction and operation of the project would not result in a cumulatively significant impact on the region's air quality. Therefore, the project would result in a less than significant impact and no mitigation is required.
- The construction and operation of the project would not exceed the greenhouse gas significance threshold adopted for this project. Therefore, the project would result in a less than significant impact and no mitigation is required.
- The construction and operation of the project would not result in the wasteful, inefficient, and unnecessary consumption of energy, especially fossil fuels such as coal, natural gas, and petroleum, associated with project design, project location, the use of electricity and natural gas, and the use of fuel by vehicles anticipated to travel to and from the project. Therefore, the project would result in a less than significant impact and no mitigation is required.

## SECTION 2: CALEEMOD EMISSION ESTIMATES – CRITERIA POLLUTANTS

This section quantifies the project construction and operational criteria pollutant emissions<sup>1</sup> for the project design and compares the emissions to the regional and local emission significance thresholds adopted by the SCAQMD.

### 2.1 - Significance Thresholds-Criteria Pollutants

The City has not adopted its own set of criteria pollutant significance thresholds. Therefore, the respective significance thresholds adopted by the SCAQMD were applied to the project in assessing the significance of the project's emissions.

#### 2.1.1 Regional Emission Significance Thresholds

The incremental regional air quality impacts of an individual project are generally very small and difficult to measure. However, the SCAQMD's regional significance thresholds define levels of maximum daily emissions whose exceedance by a project's construction or operation may add to the overall emission burden within the SCAQMD and impact the attainment and maintenance of ambient air quality standards.

The regional thresholds apply to criteria pollutant emissions of carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), oxides of sulfur (SO<sub>x</sub>), particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), and reactive organic gases (ROG). The quantification of regional emissions includes those project emissions generated from both onsite emission sources (i.e., offroad construction equipment, fugitive dust, area sources) and offsite emission sources (vehicle travel to and away from the project). Table 1 shows the SCAQMD's regional significance thresholds.

**Table 1: SCAQMD Regional Emission Significance Thresholds**

Air Pollutant	Maximum Daily Emissions (pounds/day)	
	Construction	Operation
Carbon Monoxide	550	550
Oxides of Nitrogen	100	55
Sulfur Oxides	150	150
PM <sub>10</sub>	150	150
PM <sub>2.5</sub>	55	55
Reactive Organic Gases	75	55
Source: SCAQMD <sup>2</sup>		

<sup>1</sup>Criteria pollutants are the only air pollutants with national air quality standards that define allowable concentrations of these substances in the ambient air. Criteria pollutants include carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>), and particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>). Note that ozone is another criteria pollutant; however, in terms of defining significance thresholds, ozone is represented by its precursor components, oxides of nitrogen (NO<sub>x</sub>) and reactive organic gases.

<sup>2</sup> SCAQMD April 2019. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>

## 2.1.2 Localized Significance Thresholds

Project-related construction or operational air emissions may have the potential to exceed the State and national air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact on the SCAQMD. As a result, the SCAQMD has also adopted localized significance thresholds (LSTs) that represent the maximum rates of daily construction or operational emissions from a project site that would not result in air pollutant levels that would exceed a national or State ambient air quality standards (SCAQMD 2003<sup>3</sup>,2008<sup>4</sup>). There are three principal differences between the regional thresholds and the LSTs. First, the regional thresholds include all sources of project construction and operational emissions generated from both onsite and offsite emission sources, whereas the LSTs only consider the emissions generated from onsite emission sources. Second, the LSTs only apply to CO, NO<sub>x</sub>, and particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), while the regional thresholds include both ROG and SO<sub>x</sub>. Third, the regional thresholds apply to emission sources regardless of where the source is located within the SCAQMD. In contrast, the LSTs are location-dependent and also depend on the size of the project, and emission location relative to the nearest sensitive receptor<sup>5</sup>.

For purposes of this localized assessment, the SCAQMD provides screening emission look-up tables for projects that disturb a maximum of 5 acres in size in a day. The look-up tables were developed by the SCAQMD to readily determine if the daily emissions of CO, NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> from a project could result in a significant impact on the local air quality. The appropriate LSTs can be determined based on the project's source receptor area (SRA)<sup>6</sup>, size, and distance to nearest sensitive receptor. The SCAQMD has divided the SCAQMD into 37 SRAs, each with a set of LSTs that depend on the air pollutant, project size, and distance to the nearest sensitive receptor. The project site is located within SRA 24, Perris Valley. The LSTs for this SRA were applied to the project.

### LSTs for Construction

The SCAQMD has published a "Fact Sheet for Applying CalEEMod to Localized Significance Thresholds" (SCAQMD 2011)<sup>7</sup>. The CalEEMod model calculates construction emissions based on the number and types of construction equipment, equipment hours, rates of emission, the maximum daily disturbance activity possible for each piece of equipment, and the developmental intensity. The daily maximum disturbed area during construction serves as the factor in determining the project size value of the LSTs for construction. Table 2 shows the maximum daily disturbed acreage during site preparation, and grading based on the types and numbers of construction equipment used for each construction activity, as identified by the CalEEMod model. As shown in Table 2, the maximum daily area disturbed during construction is 4.0 acres that occurs during the grading activity. Therefore, the maximum daily disturbed area during construction was set as 4.0 acres for the localized assessment of construction impacts.

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<sup>3</sup> SCAQMD 2003. Final Localized Significance Threshold Methodology. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf?sfvrsn=2>

<sup>4</sup> SCAQMD 2008: Final Localized Significance Threshold Methodology. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf>

<sup>5</sup> The SCAQMD defines a sensitive receptor as an individual who is most health-wise susceptible to exposures to air pollutants including children the elderly, and adults with chronic health issues. Such receptors include residences, schools, elderly care centers, and hospitals where such receptors could be exposed to air pollutants for at least 24 hours.

<sup>6</sup> A source-receptor area (SRA) is a geographic area within the SCAQMD that can act as both a source of emissions and a receptor of emission impacts.

<sup>7</sup> SCAQMD 2011: Fact Sheet for Applying CalEEMod to Localized Significance Thresholds. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/calemod-guidance.pdf>

**Table 2: Equipment Specific Site Preparation and Grading Disturbed Area Rates**

Activity	Equipment Type	Equipment Quantity	Acres Graded per 8-hour Day	Operating Hours per Day	Acres Graded per Day
Site Preparation	Rubber Tired Dozer	3	0.5	8	1.5
	Crawler Tractor	4	0.5	8	2.0
	Total 3.5 acres				
Grading	Excavators	2	0.0	8	0.0
	Graders	1	0.5	8	0.5
	Rubber Tired Dozers	1	0.5	8	0.5
	Crawler Tractor	2	0.5	8	1.0
	Scrapers	2	1	8	2.0
	Total 4.0 acres				
Source: Table 5 shows the construction inventory developed for the Site Preparation and Grading activities as derived from the CalEEMod model.					

The specification of LSTs is also dependent on the distance to the nearest sensitive receptor. The location of the nearest sensitive receptor depends not only on the distance from the project but also on the duration for which a receptor may be exposed to air pollution. The SCAQMD considers a sensitive receptor to be a location such as a residence, hospital, convalescent facility where it is possible than an individual could remain for 24 hours or longer. Commercial and industrial facilities are not included in the definition of a sensitive receptor because employees do not typically remain onsite for a full 24 hours, but are present for shorter periods, such as eight hours<sup>8</sup>.

The project location is surrounded by several residential areas to the north and east with a shopping center and Val Verde Academy to the west of the project. The closest sensitive receptors where such a receptor could reside for 24 hours or longer are located at existing residences along the project’s eastern property line. Therefore, the distance for sensitive receptors in the LST assessment was set at 25 meters, the shortest distance contained in the SCAQMD LST emission look-up tables. Table 3 provides the applicable construction LSTs for this project.

**Table 3: Construction Localized Significance Thresholds**

NOx (lbs/day)	CO (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)
239	1,346	11	7
LSTs for SRA 24, project area of 4.0 acres and a receptor distance of 25 meters. The LSTs were interpolated from the 2 and 5 acre LSTs provided in the SCAQMD LST look-up tables.			

<sup>8</sup> SCAQMD 2003. Final Localized Significance Threshold Methodology. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf?sfvrsn=2>

## LST for Operation

Because the LST methodology is applicable to projects where emission sources occupy a fixed location, LST methodology would typically not apply to the operational phase of a residential project because emissions for these projects are primarily generated by mobile sources traveling on local roadways over generally large distances or areas and not from emission sources located on the project site. LSTs would apply to the operational phase of a project if the project includes stationary sources or attracts mobile sources that may spend long periods queuing and idling at the site. For example, the LST methodology applies to operational projects such as warehouse/transfer facilities or large stationary sources such as a refinery, chemical factory, or railyard. As the project would include residential uses, an operational analysis applying the LST methodology is not appropriate and the localized operational impacts would be considered less than significant.

### 2.1.3 Cumulative Significance Thresholds

The SCAQMD has published the following report on how to address cumulative impacts from air pollution: White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution (SCAQMD 2003)<sup>9</sup>. Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. Therefore, the project-specific and cumulative significance thresholds are the same. As a result, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.

The US Environmental Protection Agency currently designates the South Coast Air Basin where the project is located as nonattainment for ozone, PM<sub>10</sub>, and PM<sub>2.5</sub>. By its nature, air pollution is largely a cumulative impact resulting from emissions generated over a large geographic region. The nonattainment status of regional pollutants is a result of past and present development within the air basin, and this regional impact is a cumulative impact. In other words, new development projects (such as the proposed project) within the air basin would contribute to this impact only on a cumulative basis. No single project would be sufficient in size, by itself, to result in nonattainment of regional air quality standards. Instead, a project's emissions may be individually limited, but cumulatively considerable when taken in combination with past, present, and future development projects.

The determination of cumulative air quality impacts for construction and operational emissions was, therefore, based on whether the project would result in regional emissions that exceed SCAQMD regional thresholds of significance for construction and operations on a project level. Projects that generate emissions below the SCAQMD regional significance thresholds would be considered consistent with regional air quality planning efforts and would not generate cumulatively considerable emissions.

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<sup>9</sup> SCAQMD 2003. White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution

## 2.2 - Criteria Pollutant Emission and Impact Estimates

### 2.2.1 Project Emissions

#### Construction

##### Assumptions

- Construction Schedule: Construction is anticipated to commence in January 2021 and last for approximately 2 years. The project occupancy is expected in 2023
- The project site is currently vacant.
- 6,042 cubic yards of soil to be exported during grading
- Fugitive dust mitigation applied as per SCAQMD Rule 403 – Fugitive Dust (3x daily watering, vehicle speeds < 15 mph on unpaved roads, soil moisture content =12% on unpaved roads)
- Construction equipment inventory derived from the CalEEMod model equipment specifications

##### **Construction Emissions**

The project’s conceptual construction schedule and equipment inventory are provided in [Table 4](#) and [Table 5](#), respectively, based on the schedule provided by the applicant and equipment provided in the CalEEMod model for the project size and land uses. [Table 6](#) presents the project’s construction vehicle trips.

**Table 4: Construction Schedule**

Activity	Start Date	End Date	Total Days
Site Preparation	01/04/2021	01/15/2021	10
Grading	01/16/2021	02/26/2021	30
Building Construction	02/27/2021	02/24/2023	520
Paving 1	02/27/2021	03/12/2021	10
Architectural Coating 1	02/01/2022	02/28/2022	20
Architectural Coating 2	07/17/2022	08/12/2022	20
Architectural Coating 3	10/01/2022	10/28/2022	20
Paving 2	02/25/2023	03/10/2023	10
Architectural Coating 4	03/11/2023	04/07/2023	20
Source: see CalEEMod output			

**Table 5: Construction Equipment Inventory**

Activity	Equipment	Project Number	Project Hours per day	Default Horse-power	Default Load Factor
Site Preparation	Rubber Tired Dozer	3	8	247	0.40
	Crawler Tractor	4	8	212	0.43
Grading	Excavators	2	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.40
	Crawler Tractor	2	8	212	0.43
	Scrapers	2	8	367	0.48
Building Construction	Crane	1	7	231	0.29
	Forklifts	3	8	89	0.20
	Tractors/Loaders/Backhoes	3	7	97	0.37
	Welders	1	8	46	0.45
	Generator Set	1	8	84	0.74
Paving 1,2	Pavers	2	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	7	80	0.38
Architectural Coating 1,2,3,4	Air Compressor	1	6	78	0.48

Source: see CalEEMod output

**Table 6: Construction Vehicle Trips**

Activity	Construction Trips per Day		Total Trips
	Worker	Vendor	Haul
Site Preparation	18	0	0
Grading	20	0	755
Building Construction	135	50	0
Paving 1, 2	15	0	0
Architectural Coating 1,2,3,4	27	0	0

Source: see CalEEMod output

Table 7 presents the project’s estimated maximum daily regional construction emissions. As noted in Table 7, the construction of the project would exceed not the SCAQMD’s regional emission significance thresholds.

Table 8 presents the results of the project’s localized construction impact assessment. From Table 8, the construction of the project would not exceed the SCAQMD’s construction localized emission significance thresholds.

**Table 7: Estimated Maximum Daily Regional Construction Emissions**

Construction Activity	Maximum Daily Regional Emissions <sup>(1)</sup> (pounds/day)					
	ROG	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>2021</b>						
Site Preparation	5.4	60.8	22.6	0.1	9.8	6.4
Grading	5.1	62.0	32.7	0.1	6.4	3.7
Building Construction	2.7	22.4	22.4	0.0	2.8	1.4
Paving 1	2.1	12.9	15.3	0.0	0.9	0.6
Maximum Daily Emission (Overlapping Emissions)	5.4	62.0	37.7	0.1	9.8	6.4
<b>2022</b>						
Building Construction	2.4	20.3	21.8	0.0	2.6	1.3
Architectural Coating 1	60.5	1.5	2.7	0.0	0.4	0.2
Architectural Coating 2	60.5	1.5	2.7	0.0	0.4	0.2
Architectural Coating 3	60.5	1.5	2.7	0.0	0.4	0.2
Maximum Daily Emission (Overlapping Emissions')	62.9	21.8	24.5	0.0	3.0	1.5
<b>2023</b>						
Building Construction	2.2	18.0	21.1	0.0	3.2	1.0
Paving 2	1.9	10.2	15.1	0.0	0.7	0.5
Architectural Coating 4	60.5	1.5	2.7	0.0	0.4	0.2
Maximum Daily Emission (Overlapping Emissions')	60.5	18.0	21.1	0.0	3.2	1.0
<b>2021 to 2023 Maximum Daily Emissions</b>	<b>62.9</b>	<b>62.0</b>	<b>37.7</b>	<b>0.1</b>	<b>9.8</b>	<b>6.4</b>
<b>SCAQMD Significance Thresholds</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
<b>Emissions Exceed Thresholds?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
Notes: ROG = reactive organic gases    NO <sub>x</sub> = oxides of nitrogen    PM <sub>10</sub> = particulate matter 10 microns or less in diameter PM <sub>2.5</sub> = particulate matter 2.5 microns or less in diameter    CO = carbon monoxide    SO <sub>x</sub> = sulfur oxides PM emissions reflect SCAQMD Rule 403 reductions An emission of 0.0 implies an emission of <0.1 pounds/day Source: see CalEEMod model output						

**Table 8: Estimated Maximum Daily Localized Construction Emissions**

Construction Activity	Maximum Daily Localized Emissions (pounds/day)			
	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
<b>2021</b>				
Site Preparation	60.8	21.9	9.6	5.3
Grading	56.5	31.2	5.7	3.5
Building Construction	17.4	16.6	1.0	0.9
Paving 1	12.9	14.7	0.7	0.6
Maximum Daily Emission (Overlapping Emissions)	60.8	31.3	9.6	0.9
<b>2022</b>				
Building Construction	15.6	16.4	0.8	0.8
Architectural Coating 1	1.4	1.8	0.1	0.1
Architectural Coating 2	1.4	1.8	0.1	0.1
Architectural Coating 3	1.4	1.8	0.1	0.1
Maximum Daily Emission (Overlapping Emissions')	17.0	18.2	0.9	0.9
<b>2023</b>				
Building Construction	14.4	16.2	1.4	0.5
Paving 2	10.2	14.6	0.5	0.5
Architectural Coating 4	1.4	1.8	0.1	0.1
Maximum Daily Emission (Overlapping Emissions')	14.4	16.2	1.4	0.5
<b>2021 to 2023 Maximum Daily Emissions</b>	<b>60.8</b>	<b>31.3</b>	<b>9.8</b>	<b>6.4</b>
<b>SCAQMD Significance Thresholds</b>	<b>239</b>	<b>1,346</b>	<b>11</b>	<b>7</b>
<b>Emissions Exceed Thresholds?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
Notes: NO <sub>x</sub> = oxides of nitrogen    PM <sub>10</sub> = particulate matter 10 microns or less in diameter PM <sub>2.5</sub> = particulate matter 2.5 microns or less in diameter    CO = carbon monoxide PM emissions reflect SCAQMD Rule 403 emission reductions An emission of 0.0 implies an emission of <0.1 pounds/day Source: see CalEEMod model output				

### Project Operational Emissions

The project's day-to-day operations would generate the project's long-term emissions. Operational emissions for land use development projects are typically distinguished as mobile, area, and energy-source emissions. Mobile-source emissions are associated with project-related automobiles and other motor vehicles that would travel to and from the project site. In accordance with the project's traffic impact memorandum<sup>10</sup>, the project is expected to generate 762 daily weekday trips. The CalEEMod default vehicle

<sup>10</sup> EPD Solutions 2020. Project Traffic Trip Generation Memorandum

fleet mix, trip purpose, and trip lengths were assumed in estimating the project’s mobile source emissions. Area-source emissions result from landscape maintenance activities and periodic architectural coatings. While energy-source emissions result primarily from natural gas consumption. Table 9 summarizes the project’s regional operational emissions along with a comparison to the SCAQMD’s regional significance thresholds. As noted in Table 9, the project’s regional operational emissions are less than the regional significance thresholds.

**Table 9: Estimated Maximum Daily Regional Operational Emissions**

Operational Activity	Maximum Daily Regional Emissions (pounds/day)				
	ROG	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
Area	4.3	0.1	6.7	0.0	0.0
Energy	0.1	0.6	0.3	0.1	0.1
Mobile –	1.1	8.1	14.3	5.9	1.6
<b>Total Operational Emissions</b>	<b>5.5</b>	<b>8.8</b>	<b>24.3</b>	<b>6.0</b>	<b>1.7</b>
<b>SCAQMD Significance Threshold</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>55</b>
<b>Exceed Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
Notes: NO <sub>x</sub> = oxides of nitrogen    PM <sub>10</sub> = particulate matter 10 microns or less in diameter    ROG = reactive organic gases PM <sub>2.5</sub> = particulate matter 2.5 microns or less in diameter    CO = carbon monoxide An emission of 0.0 implies an emission of <0.1 pounds/day Source: see CalEEMod model output					

## 2.2.2 Cumulative Impacts

### Construction

As shown above in Table 7, the project’s maximum daily regional construction emissions would not exceed SCAQMD’s regional thresholds of significance. Therefore, the project’s construction emissions would not result in a cumulatively considerable incremental contribution to the existing air quality. Furthermore, all construction activities would comply with applicable SCAQMD rules and regulations, including Rule 403 to minimize fugitive PM dust emissions. Therefore, the cumulative impact of the construction of the project would be less than significant.

### Operations

As shown in Table 9 above, the project’s maximum daily operational emissions would not exceed SCAQMD’s regional thresholds of significance. Therefore, the project’s operational emissions would not result in a cumulatively considerable incremental contribution to the existing air quality. The cumulative impact from the long-term operation of the project would be less than significant.

## 2.3 - Conclusion

The project's construction and operational emissions would not exceed the SCAQMD's established project level or cumulative regional or localized pollutant significant thresholds during either construction or operation. Therefore, the project's impacts are less than significant and no mitigation is required.

## SECTION 3: CALEEMOD EMISSION ESTIMATES - GREENHOUSE GAS EMISSIONS

This section analyzes the potential impacts on climate change from the project's emissions of various greenhouses (GHG).

### 3.1 - Significance Threshold

The City of Moreno Valley has not adopted its own numeric threshold of significance for determining impacts with respect to greenhouse gas (GHG) emissions. SCAQMD has adopted a significance threshold of 10,000 MTCO<sub>2</sub>e per year for permitted (stationary) sources of GHG emissions for which SCAQMD is the designated lead agency. To provide guidance to local lead agencies on determining significance for GHG emissions in their CEQA documents, SCAQMD convened a GHG CEQA Significance Threshold Working Group (Working Group). Based on the last Working Group meeting (Meeting No. 15) in September 2010, SCAQMD identified a tiered approach for evaluating GHG emissions for development projects where SCAQMD is not the lead agency (SCAQMD 2010).

- Tier 1. If a project is exempt from CEQA, project-level and cumulative GHG emissions are less than significant.
- Tier 2. If the project complies with a GHG emissions reduction plan or mitigation program that avoids or substantially reduces GHG emissions in the project's geographic area (e.g., city or county), project-level and cumulative GHG emissions are less than significant.
- Tier 3. If GHG emissions are less than the screening-level threshold, project-level and cumulative GHG emissions are less than significant.

For projects that are not exempt or where no qualifying GHG reduction plans are directly applicable, SCAQMD requires an assessment of GHG emissions. Project-related GHG emissions include on-road transportation, energy use, water use, wastewater generation, solid waste disposal, area sources, off-road emissions, and construction activities. The SCAQMD Working Group concluded that because construction activities would result in a "one-time" net increase in GHG emissions, construction activities should be amortized into the operational phase GHG emissions inventory based on the service life of a building. For buildings an amortization time of 30-years was recommended by the SCAQMD. With regards to quantitative significance thresholds, the SCAQMD identified a screening-level threshold of 3,000 MTCO<sub>2</sub>e annually for all land use types or the following land-use specific thresholds: 1,400 MTCO<sub>2</sub>e for commercial projects, 3,500 MTCO<sub>2</sub>e for residential projects, and 3,000 MTCO<sub>2</sub>e for mixed-use projects. These bright-line thresholds are based on a review of the Governor's Office of Planning and Research database of CEQA projects. Based on their review of 711 CEQA projects, 90 percent of CEQA projects would exceed the bright-line thresholds. For purposes of this assessment, a significance threshold of 3,000 MTCO<sub>2</sub>e was used as the threshold for this assessment. Thus, based on guidance from the SCAQMD, if a non-industrial project would emit GHGs less than 3,000 MTCO<sub>2</sub>e per year, the project is not considered a substantial GHG emitter and the GHG impact is less than significant, requiring no additional analysis and no mitigation

### 3.2.1 Construction

Table 10 summarizes the project’s construction GHG emissions. As per SCAQMD guidance, the project’s construction emissions are amortized over a 30-year time period and added to the operational emissions to quantify the project’s total GHG emissions.

**Table 10: Project Construction GHG Emissions**

Activity	Annual GHG Emissions (MTCO <sub>2e</sub> )
2021	684
2022	626
2023	108
Total Emissions	1,418
Total Emissions Amortized Over 30 years	47
Source: see CalEEMod output	

### 3.2.2 Operations

Table 11 summarizes the project’s operational GHG emissions, along with the construction GHG emissions and the total project GHG emissions. The project would result in GHG emissions of 1,585 MTCO<sub>2e</sub> per year. This level of emissions does not exceed the 3,000 MTCO<sub>2e</sub> per year significance threshold adopted for this project. Therefore, the project would have a less than significant individual and cumulative impact for GHG emissions.

**Table 11: Project Operational GHG Emissions**

Activity	Annual GHG Emissions (MTCO <sub>2e</sub> )
Project Operational Emissions	
Area	1
Energy	305
Mobile	1,142
Waste	48
Water	43
Total	1,538
Project Construction Emissions	47
Project Construction and Operation	1,585
<b>Significance Threshold</b>	<b>3,000</b>
<b>Project Exceeds Threshold?</b>	<b>NO</b>
Source: see CalEEMod output	

## 3.2 - Conclusion

The project's construction and operational GHG emissions would have a less than significant individual and cumulative impact for GHG emissions. Therefore, the project would result in a less than significant impact and no mitigation is required.

## SECTION 4: PROJECT FUEL AND ENERGY CONSUMPTION

### 4.1 - Assumptions

- Construction equipment fuel consumption derived from ARB Offroad2017 emission model and the CalEEMod construction equipment
- Fuel Consumption from vehicle travel derived from ARB EMFAC2017 emission model
- Electrical and natural gas usage derived from the CalEEMod model

### 4.2 - Significance Thresholds

Neither Appendix F of the State CEQA Guidelines nor PRC Section 21100(b)(3)) provide a numerical threshold of significance that might be used to evaluate the potential significance of energy consumption of a proposed project. Instead, the emphasis is on reducing “the wasteful, inefficient, and unnecessary consumption of energy.” Based on this focus of the guidelines, for purposes of this report, the proposed project would have a significant impact related to energy consumption if it would:

- Involve the wasteful, inefficient, and unnecessary consumption of energy, especially fossil fuels such as coal, natural gas, and petroleum, associated with project design, project location, the use of electricity and natural gas, and the use of fuel by vehicles anticipated to travel to and from the project.

### 4.3 - Construction

#### 4.3.1 Electricity and Natural Gas Usage

Southern California Edison Company would provide temporary electric power for necessary lighting and electronic equipment such as computers inside temporary construction trailers and construction tools. The electricity used for such activities would be temporary and would be substantially less than that required for project operation and would have a negligible contribution to the project’s overall energy consumption.

Natural gas is not anticipated to be required during the construction of the proposed project. Fuels used during the construction would primarily consist of diesel and gasoline, which are discussed below under the “petroleum” subsection. Any minor amounts of natural gas that may be consumed as a result of project construction would be substantially less than that required for project operation and would have a negligible contribution to the project’s overall energy consumption.

#### 4.3.2 Petroleum Fuel Usage

Off-road heavy-duty construction equipment associated with construction activities would rely on diesel fuel as would vendor and haul trucks involved in delivering building materials and removing soil during grading from the project site. Construction workers would travel to and from the project site throughout the duration of construction. It is assumed in this analysis that construction workers would travel to and from the site in gasoline-powered passenger vehicles. Table 12 presents the fuel usage for the off-road construction equipment. These estimates are based on the total fuel consumption and horsepower-hour

data contained within the ARB OFFROAD2017 emission model for specific types of diesel construction equipment to be employed in the project construction. Note that the total fuel consumption during construction computed below likely substantially overstates the amount of fuel usage. Although construction equipment and their duration are listed under a particular construction activity, there is a likelihood that all of the inventoried equipment would not operate over the entire duration of the construction activity. For example, during building construction, a crane is listed as one of the operational pieces of equipment. However, it is highly unlikely that the crane would operate over the entire duration of 300 days assumed during the building construction activity.

Table 13 summarizes the project's construction vehicle fuel usage. The fuel usage is based on the vehicle type (worker vehicle, vendor vehicle, and haul truck), vehicle miles traveled, and fuel usage factors contained in the ARB EMFAC2017 mobile source emission model and in the CalEEMod model. Table 14 summarizes the total fuel construction during construction.

#### 4.4 - Operational Energy Requirements

Table 15 summarizes the project's operational energy requirements.

#### 4.5 - Conclusion

Construction of the project would result in fuel consumption from the use of construction tools and equipment, vendor and haul truck trips, and vehicle trips generated from construction workers traveling to and from the site. Construction activities and corresponding fuel energy consumption would be temporary and localized, as the use of diesel fuel and heavy-duty equipment would not be a typical operational condition of the project. The operational aspects of the project would involve energy use in the form of natural gas and electricity consumption for residential uses and fuel consumption from residential vehicle travel. Also, there are no unusual project characteristics that would cause the use of construction equipment that would be less energy efficient compared with other similar construction sites in other parts of the State. The rational goal of any construction job, whether it is for a household task or construction project such as the proposed project, is to minimize construction costs while meeting all legal requirements for doing so. Therefore, construction-related fuel consumption by the project would not result in inefficient, wasteful, or unnecessary energy use compared with other construction sites in the region.

The operation of the project would involve the development of 81 single family housing units. According to CEQA Guidelines Appendix F, the goal of conserving energy implies the wise and efficient use of energy, including decreasing overall per capita energy consumption, reducing reliance on natural gas and oil, and increasing reliance on renewable energy sources. The project would comply with all of the energy efficiency requirements under all applicable State, county, and local business and energy code ordinances. As a result, the operation of the project would not result in inefficient, wasteful, or unnecessary energy use compared with other similar residential projects in the region. Therefore, the project would result in a less than significant impact and no mitigation is required.

**Table 12: Construction Equipment Fuel Usage**

Construction Equipment	Equipment	Equipment Number	Equipment Hours per day	Default Horsepower	Default Load Factor	Days of Construction	Total Horsepower-hours	Fuel Rate (gal/hp-hr)	Fuel Use (gallons)
Site Preparation	Rubber Tired Dozer	3	8	247	0.40	10	23,712	0.02046	485
	Crawler Tractor	4	8	212	0.43	10	29,171	0.02217	647
Grading	Excavators	2	8	158	0.38	30	28,819	0.01976	570
	Graders	2	8	187	0.41	30	36,802	0.02114	778
	Rubber Tired Dozers	1	8	247	0.40	30	23,712	0.02046	485
	Crawler Tractor	2	8	212	0.43	30	43,757	0.02217	970
Building Construction	Scrapers	2	8	367	0.48	30	84,557	0.02498	2,112
	Crane	1	7	231	0.29	520	243,844	0.01489	3,631
	Forklifts	3	8	89	0.20	520	222,144	0.02396	5,324
	Tractors/Loaders/Backhoes	3	7	97	0.37	520	391,919	0.01911	7,491
	Welders	1	8	46	0.46	520	88,026	0.02147	1,890
	Generator Set	1	8	84	0.74	520	258,586	0.02147	5,552
Paving 1	Pavers	2	8	130	0.42	10	8,736	0.02151	188
	Paving Equipment	2	8	132	0.36	10	7,603	0.01833	139
	Rollers	2	8	80	0.36	10	4,608	0.01942	89
Architectural Coating 1	Air Compressor	1	6	78	0.48	20	4,493	0.02147	96
Architectural Coating 2	Air Compressor	1	6	78	0.48	20	4,493	0.02147	96
Architectural Coating 3	Air Compressor	1	6	78	0.48	20	4,493	0.02147	96
Architectural Coating 4	Air Compressor	1	6	78	0.48	20	4,493	0.02147	96
Paving 2	Pavers	2	8	130	0.42	10	8,736	0.02151	188
	Paving Equipment	2	8	132	0.36	10	7,603	0.01833	139
	Rollers	2	8	80	0.36	10	4,608	0.01942	89
								<b>Total</b>	<b>31,154</b>

**Table 13: Estimated Project Construction Vehicle Fuel Usage**

Construction Source	Gallons of Diesel Fuel	Gallons of Gasoline Fuel
Haul Trucks	2,165	0
Vendor Trucks	17,723	0
Worker Vehicles	0	38,210
Construction Vehicles Total	19,888	38,210
Source: see Construction Fuel Usage Spreadsheet		

**Table 14: Total Construction Fuel Usage**

Construction Source	Gallons of Diesel Fuel	Gallons of Gasoline Fuel
Construction Vehicles	19,888	38,210
Off-road Construction Equipment	31,154	0
Construction Total	51,042	38,210
Source: see Construction Fuel Usage Spreadsheet		

**Table 15: Project Annual Operational Energy Requirements**

Operational Source (value per year)		
Energy Source	Annual VMT	Gallons of Gasoline Fuel
Transportation – Project	278,145 (Diesel) 2,314,975 (Gas) 2,593,120(Total)	32,304 (Diesel) 87,330 (Gas)
Thousands Kilowatt-Hours		
Electricity – Project	706,035	
Thousands British Thermal Units		
Natural Gas – Project	2,478,290	
Note: Source: see Fuel Usage Spreadsheet and CalEEMod output		

# CalEEMod Model Spreadsheet Output

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Iris Park Residential Project, Moreno Valley, CA

CalEEMod Construction Emission Summary

2021	Maximum Daily Emissions (pounds/day)									
	ROG	NOx	CO	SOx	PM10F	PM10Exh	PM10Total	PM2.5Fug	PM2.5 Exh	PM2.5Total
<b>Site Prep (SP)</b>										
Onsite	5.3	60.8	21.9	0.1	7.0	2.6	9.6	3.9	2.4	6.3
Offsite	0.1	0.0	0.7	0.0	0.2	0.0	0.2	0.1	0.0	0.1
Total	5.4	60.8	22.6	0.1	7.2	2.6	9.8	4.0	2.4	6.4
<b>Grading (GR)</b>										
Onsite	4.9	56.5	31.2	0.1	3.4	2.3	5.7	1.4	2.1	3.5
Offsite	0.2	5.5	1.5	0.0	0.7	0.0	0.7	0.2	0.0	0.2
Total	5.1	62.0	32.7	0.1	4.1	2.3	6.4	1.6	2.1	3.7
<b>Building Construction (BC)</b>										
Onsite	1.9	17.4	16.6	0.0	0.0	1.0	1.0	0.0	0.9	0.9
Offsite	0.8	5.0	5.8	0.0	1.8	0.0	1.8	0.5	0.0	0.5
Total	2.7	22.4	22.4	0.0	1.8	1.0	2.8	0.5	0.9	1.4
<b>Paving 1</b>										
Onsite	2.0	12.9	14.7	0.0	0.0	0.7	0.7	0.0	0.6	0.6
Offsite	0.1	0.0	0.6	0.0	0.2	0.0	0.2	0.0	0.0	0.0
Total	2.1	12.9	15.3	0.0	0.2	0.7	0.9	0.0	0.6	0.6
<b>2021 Max Onsite</b>	<b>5.3</b>	<b>60.8</b>	<b>31.3</b>	<b>0.1</b>	<b>7.0</b>	<b>2.6</b>	<b>9.6</b>	<b>3.9</b>	<b>2.4</b>	<b>6.3</b>
(Construction Activity)	(SP)	(SP)	(GR)	(GR)	(SP)	(SP)	(SP)	(SP)	(SP)	(SP)
<b>2021 Max Total</b>	<b>5.4</b>	<b>62.0</b>	<b>37.7</b>	<b>0.1</b>	<b>7.2</b>	<b>2.6</b>	<b>9.8</b>	<b>4.0</b>	<b>2.4</b>	<b>6.4</b>
(Construction Activity)	(SP)	(GR)	(GR)	(GR)	(SP)	(SP)	(SP)	(SP)	(SP)	(SP)

2022	ROG	NOx	CO	SOx	PM10F	PM10Exh	PM10Total	PM2.5Fug	PM2.5 Exh	PM2.5Total
<b>Building Construction (BC)</b>										
Onsite	1.7	15.6	16.4	0.0	0.0	0.8	0.8	0.0	0.8	0.8
Offsite	0.7	4.7	5.4	0.0	1.8	0.0	1.8	0.5	0.0	0.5
Total	2.4	20.3	21.8	0.0	1.8	0.8	2.6	0.5	0.8	1.3
<b>Architectural Coating 1 (AC1)</b>										
Onsite	60.4	1.4	1.8	0.0	0.0	0.1	0.1	0.0	0.1	0.1
Offsite	0.1	0.1	0.9	0.0	0.3	0.0	0.3	0.1	0.0	0.1
Total	60.5	1.5	2.7	0.0	0.3	0.1	0.4	0.1	0.1	0.2
<b>Architectural Coating 2 (AC2)</b>										
Onsite	60.4	1.4	1.8	0.0	0.0	0.1	0.1	0.0	0.1	0.1
Offsite	0.1	0.1	0.9	0.0	0.3	0.0	0.3	0.1	0.0	0.1
Total	60.5	1.5	2.7	0.0	0.3	0.1	0.4	0.1	0.1	0.2
<b>Architectural Coating 3 (AC3)</b>										
Onsite	60.4	1.4	1.8	0.0	0.0	0.1	0.1	0.0	0.1	0.1
Offsite	0.1	0.1	0.9	0.0	0.3	0.0	0.3	0.1	0.0	0.1
Total	60.5	1.5	2.7	0.0	0.3	0.1	0.4	0.1	0.1	0.2
<b>2022 Max Onsite</b>	<b>62.1</b>	<b>17.0</b>	<b>18.2</b>	<b>0.0</b>	<b>0.0</b>	<b>0.9</b>	<b>0.9</b>	<b>0.0</b>	<b>0.9</b>	<b>0.9</b>
Construction Activity	(BC+AC)	(BC+AC)	(BC+AC)	(BC+AC)	(BC+AC)	(BC+AC)	(BC+AC)	(BC+AC)	(BC+AC)	(BC+AC)
<b>2022 Max Total</b>	<b>62.9</b>	<b>21.8</b>	<b>24.5</b>	<b>0.0</b>	<b>2.1</b>	<b>0.9</b>	<b>3.0</b>	<b>0.6</b>	<b>0.9</b>	<b>1.5</b>
(Construction Activity)	(BC+AC)	(BC+AC)	(BC+AC)	(BC+AC)	(BC+AC)	(BC+AC)	(BC+AC)	(BC+AC)	(BC+AC)	(BC+AC)

2023	ROG	NOx	CO	SOx	PM10F	PM10Exh	PM10Total	PM2.5Fug	PM2.5 Exh	PM2.5Total
<b>Building Construction (BC)</b>										
Onsite	1.6	14.4	16.2	0.0	0.7	0.7	1.4	0.0	0.5	0.5
Offsite	0.6	3.6	4.9	0.0	1.8	0.0	1.8	0.5	0.0	0.5
Total	2.2	18.0	21.1	0.0	2.5	0.7	3.2	0.5	0.5	1.0
<b>Paving 2 (PV2)</b>										
Onsite	1.8	10.2	14.6	0.0	0.0	0.5	0.5	0.0	0.5	0.5
Offsite	0.1	0.0	0.5	0.0	0.2	0.0	0.2	0.0	0.0	0.0
Total	1.9	10.2	15.1	0.0	0.2	0.5	0.7	0.0	0.5	0.5
<b>Architectural Coating 4 (AC4)</b>										
Onsite	60.4	1.4	1.8	0.0	0.0	0.1	0.1	0.0	0.1	0.1
Offsite	0.1	0.1	0.9	0.0	0.3	0.0	0.3	0.1	0.0	0.1
Total	60.5	1.5	2.7	0.0	0.3	0.1	0.4	0.1	0.1	0.2
<b>2023 Max Onsite</b>	<b>60.4</b>	<b>14.4</b>	<b>16.2</b>	<b>0.0</b>	<b>0.7</b>	<b>0.7</b>	<b>1.4</b>	<b>0.0</b>	<b>0.5</b>	<b>0.5</b>
Construction Activity	(AC4)	(BC)	(BC)	(BC)	(BC)	(BC)	(BC)	(BC)	(BC)	(BC)
<b>2023 Max Total</b>	<b>60.5</b>	<b>18.0</b>	<b>21.1</b>	<b>0.0</b>	<b>2.5</b>	<b>0.7</b>	<b>3.2</b>	<b>0.5</b>	<b>0.5</b>	<b>1.0</b>

<b>2021-2023 Max Onsite</b>	<b>62.1</b>	<b>60.8</b>	<b>31.3</b>	<b>0.1</b>	<b>7.0</b>	<b>2.6</b>	<b>9.6</b>	<b>3.9</b>	<b>2.4</b>	<b>6.3</b>
<b>2021-2023 Total</b>	<b>62.9</b>	<b>62.0</b>	<b>37.7</b>	<b>0.1</b>	<b>7.2</b>	<b>2.6</b>	<b>9.8</b>	<b>4.0</b>	<b>2.4</b>	<b>6.4</b>

Regional Emission Significance Threshold (pounds/day)										
	75.0	100.0	550.0	150.0			150.0			55.0

Maximum Total Project Emissions										
Exceed Regional Thresholds	NO	NO	NO	NO			NO			NO

LST Threshold (pounds/day)	239	1346					11			7
Exceed LSTs	NO	NO					NO			NO

# Iris Park Residential Project, Moreno Valley, CA

## Construction Equipment Fuel Usage

Construction Equipment	Equipment	Equipment Number	Equipment Hours per day	Default Horse-power	Default Load Factor	Days of Construction	Total Horsepower-hours	Fuel Rate (gal/hp-hr)	Fuel Use (gallons)
Site Preparation	Rubber Tired Dozer	3	8	247	0.40	10	23,712	0.02046	485
	Crawler Tractor	4	8	212	0.43	10	29,171	0.02217	647
Grading	Excavators	2	8	158	0.38	30	28,819	0.01976	570
	Graders	2	8	187	0.41	30	36,802	0.02114	778
	Rubber Tired Dozers	1	8	247	0.40	30	23,712	0.02046	485
	Crawler Tractor	2	8	212	0.43	30	43,757	0.02217	970
	Scrapers	2	8	367	0.48	30	84,557	0.02498	2,112
Building Construction	Crane	1	7	231	0.29	520	243,844	0.01489	3,631
	Forklifts	3	8	89	0.20	520	222,144	0.02396	5,324
	Tractors/Loaders/Backhoes	3	7	97	0.37	520	391,919	0.01911	7,491
	Welders	1	8	46	0.46	520	88,026	0.02147	1,890
	Generator Set	1	8	84	0.74	520	258,586	0.02147	5,552
Paving 1	Pavers	2	8	130	0.42	10	8,736	0.02151	188
	Paving Equipment	2	8	132	0.36	10	7,603	0.01833	139
	Rollers	2	8	80	0.36	10	4,608	0.01942	89
Architectural Coating 1	Air Compressor	1	6	78	0.48	20	4,493	0.02147	96
Architectural Coating 2	Air Compressor	1	6	78	0.48	20	4,493	0.02147	96
Architectural Coating 3	Air Compressor	1	6	78	0.48	20	4,493	0.02147	96
Architectural Coating 4	Air Compressor	1	6	78	0.48	20	4,493	0.02147	96
Paving 2	Pavers	2	8	130	0.42	10	8,736	0.02151	188
	Paving Equipment	2	8	132	0.36	10	7,603	0.01833	139
	Rollers	2	8	80	0.36	10	4,608	0.01942	89
<b>Total</b>									<b>31,154</b>

**Iris Park Residential Project, Moreno Valley, CA**

**Fuel Consumption from Construction Vehicles (Derived from the ARB EMFAC2017 Mobile Source Emission Model)**

**Emission Factors**

Region (County)	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT (miles/day)	Fuel Consumption (1000 gallons/day)	Fuel Rate (miles/gallon)
RIVERSIDE	2021	MHDT-T6	Aggregated	Aggregated	DSL	1186652	89.4	13.3
RIVERSIDE	2021	HHDT-T7	Aggregated	Aggregated	DSL	3825933	548.6	7.0
							<b>Average (50%/50%)</b>	<b>10.1</b>
RIVERSIDE	2021	LDA	Aggregated	Aggregated	GAS	29816029	960	31.1
RIVERSIDE	2021	LDT1	Aggregated	Aggregated	GAS	3017206	115	26.3
RIVERSIDE	2021	LDT2	Aggregated	Aggregated	GAS	9631964	392	24.6
							<b>Average (50%/25%/25%)</b>	<b>28</b>

**Vehicle Assumptions (CalEEMod)**

**Haul trucks** represented by HHDT-T7 (heavy -heavy duty haul truck)

MHDT-T6 (medium heavy duty haul truck)

**Vendor trucks** assumed to be 50% HHDT-T7 and MHDT-T6)

LDA (light duty automobile for worker vehicles)

LDT1 (light duty truck 1 for worker vehicles)

LDT2 (light duty truck 2 for worker vehicles)

**Worker vehicles** represented as 50% LDT, 25% LHT1, and 25% LDT2

**Construction Vehicle Use (Derived from the CalEEMod model output)**

**Fuel Consumption for Haul Trucks**

Construction Activity	No Haul Truck Trips	Trip Length	VMT (miles)	DSL Fuel (gallons)
Site Preparation	0	20	0	0
Grading	755	20	15100	2165
Building Construction	0	20	0	0
Paving 1 -	0	20	0	0
Architectural Coating 1	0	20	0	0
Architectural Coating 2	0	20	0	0
Architectural Coating 3	0	20	0	0
Architectural Coating 4	0	20	0	0
Paving 2	0	20	0	0
<b>Total</b>	<b>755</b>		<b>15100</b>	<b>2165</b>

Construction Activity	No Vendor Truck Trips/day	Duration (days)	Trip Length (miles)	VMT (miles)	Fuel	Fuel Rate (miles/gallon)	DSL Fuel (gallons)
Site Preparation	0	10	6.9	0	DSL	10.1	0
Grading	0	30	6.9	0	DSL	10.1	0
Building Construction	50	520	6.9	179400	DSL	10.1	17723
Paving 1 -	0	10	6.9	0	DSL	10.1	0
Architectural Coating 1	0	20	6.9	0	DSL	10.1	0
Architectural Coating 2	0	20	6.9	0	DSL	10.1	0
Architectural Coating 3	0	20	6.9	0	DSL	10.1	0
Architectural Coating 4	0	10	6.9	0	DSL	10.1	0
Paving 2	0	20	6.9	0	DSL	10.1	0
<b>Total</b>				<b>179400</b>			<b>17723</b>

Activity	No Worker Vehicles Trips/day	Duration (days)	Trip Length (miles)	VMT (miles)	Fuel	Fuel Rate (miles/gallon)	Gas Fuel (gallons)
Site Preparation	18	10	14.7	2646	GAS	28	94
Grading	20	30	14.7	8820	GAS	28	312
Building Construction	135	520	14.7	1031940	GAS	28	36524
Paving 1 -	15	10	14.7	2205	GAS	28	78
Architectural Coating 1	27	20	14.7	7938	GAS	28	281
Architectural Coating 2	27	20	14.7	7938	GAS	28	281
Architectural Coating 3	27	20	14.7	7938	GAS	28	281
Architectural Coating 4	27	20	14.7	7938	GAS	28	281
Paving 2	15	10	14.7	2205	GAS	28	78
<b>Total</b>				<b>1079568</b>			<b>38210</b>

Summary	Gallons
Total -DSL	19888
Total - GAS	38210
	58098

# Iris Park Residential Project, Moreno Valley, CA

Estimation of Operational Vehicle Fuel Use

2023

Total Annual VMT 2,593,120

Vehicle Class	CalEEmod	Annual VMT	EMFAC2017	Annual	EMFAC2017	Annual	EMFAC2017		Fuel Consumption		
	Fleet Mix		% DSL	DSL VMT	%GAS	GAS VMT	Fuel Rate -DSL (mi/gallons)	Fuel Rate-GAS (mi/gal)	DSL-(gal/year)	GAS-(gal/year)	
LDA	54.600%	1,415,844	0.9%	13361	99.1%	1402482	50.9	31.1	263	45,155	
LDT1	3.700%	95,945	0.0%	30	100.0%	95916	25.6	26.3	1	3,643	
LDT2	18.600%	482,320	0.6%	2908	99.4%	479412	37.9	24.6	77	19,513	
LHDT1	1.500%	38,897	50.1%	19492	49.9%	19405	20.8	10.7	939	1,821	
LHDT2	0.500%	12,966	71.1%	9221	28.9%	3745	19.0	9.3	485	403	
Motor Cycle	0.500%	12,966	0.0%	0	100.0%	12966	0	38.3	-	339	
MDT	11.500%	298,209	2.2%	6510	97.8%	291699	28.0	19.7	233	14,782	
Motor Home	0.010%	259	29.7%	77	70.3%	182	10.8	5.1	7	36	
Other Bus	0.100%	2,593	47.7%	1237	52.3%	1356	8.8	5.1	140	267	
School Bus	0.100%	2,593	65.1%	1688	34.9%	905	7.5	8.9	224	101	
MHDT	1.800%	46,676	90.3%	42128	9.7%	4548	10.8	5.1	3,911	885	
HHDT	7.000%	181,518	100.0%	181488	0.0%	31	7.0	4.2	26,024	7	
Urban Bus	0.090%	2,334	0.3%	6	99.7%	2328	8.9	6.2	1	378	
	100.000%	2,593,120									
Total VMT-DSL		278,145 VMT								32,304	87,330
Total VMT-Gas		2,314,975 VMT									
		2,593,120 VMT									
Total Fuel - DSL		32,304 gallons/year									
Total Fuel - GAS		87,330 gallons/year									

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**Iris Residential Project - Moreno Valley, CA**  
**Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	2.79	Acre	2.79	121,532.40	0
City Park	3.02	Acre	3.02	131,551.20	0
Single Family Housing	81.00	Dwelling Unit	5.02	187,000.00	232

**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>	534	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

Project Characteristics - SCE CO2 Intensity Factor 2020 to 2029

Land Use - Residential = 81 SFU

Internal Roadways = 2.79 acres

Park area = 3.02 acres

Construction Phase - Construction schedult provided by client

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - .....

Off-road Equipment - Use of larger equipment

Off-road Equipment - ..

Off-road Equipment - ..

Off-road Equipment - Use of Larger equipment

Grading - Soil export of 6,042 cy

Architectural Coating -

Vehicle Trips - Weekday trip generation from the project trip memorandum - EPDS

Weekend trip rates from CalEEMod default values

Woodstoves - Assumes no fireplaces in residential units

Construction Off-road Equipment Mitigation - Applied ffffigitive dust reductions as required under SCAQMD Rule 493

Fleet Mix - SFU fleet mix is the default CalEEMod fleet mix for Riversode County in 2023

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	520.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	10.00
tblFireplaces	FireplaceDayYear	25.00	0.00

## Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	68.85	0.00
tblFireplaces	NumberNoFireplace	8.10	0.00
tblFireplaces	NumberWood	4.05	0.00
tblGrading	AcresOfGrading	105.00	75.00
tblGrading	AcresOfGrading	20.00	0.00
tblGrading	MaterialExported	0.00	6,042.00
tblLandUse	LandUseSquareFeet	145,800.00	187,000.00
tblLandUse	LotAcreage	26.30	5.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	9.41
tblWoodstoves	NumberCatalytic	4.05	0.00
tblWoodstoves	NumberNoncatalytic	4.05	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

## 2.0 Emissions Summary

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Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.4281	62.0685	37.5996	0.0926	18.2675	2.6472	20.9146	9.9840	2.4354	12.4195	0.0000	9,150.577 4	9,150.577 4	2.3619	0.0000	9,209.625 4
2022	62.9332	21.7833	24.4692	0.0594	2.1309	0.9085	3.0395	0.5724	0.8595	1.4319	0.0000	5,852.278 1	5,852.278 1	0.7598	0.0000	5,871.272 6
2023	60.4991	17.9634	21.1694	0.0528	1.8291	0.7115	2.5406	0.4924	0.6694	1.1617	0.0000	5,206.070 3	5,206.070 3	0.7171	0.0000	5,223.733 1
<b>Maximum</b>	<b>62.9332</b>	<b>62.0685</b>	<b>37.5996</b>	<b>0.0926</b>	<b>18.2675</b>	<b>2.6472</b>	<b>20.9146</b>	<b>9.9840</b>	<b>2.4354</b>	<b>12.4195</b>	<b>0.0000</b>	<b>9,150.577 4</b>	<b>9,150.577 4</b>	<b>2.3619</b>	<b>0.0000</b>	<b>9,209.625 4</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.4281	62.0685	37.5996	0.0926	7.2470	2.6472	9.8942	3.9263	2.4354	6.3617	0.0000	9,150.577 4	9,150.577 4	2.3619	0.0000	9,209.625 4
2022	62.9332	21.7833	24.4692	0.0594	2.1309	0.9085	3.0395	0.5724	0.8595	1.4319	0.0000	5,852.278 1	5,852.278 1	0.7598	0.0000	5,871.272 6
2023	60.4991	17.9634	21.1694	0.0528	1.8291	0.7115	2.5406	0.4924	0.6694	1.1617	0.0000	5,206.070 3	5,206.070 3	0.7171	0.0000	5,223.733 0
<b>Maximum</b>	<b>62.9332</b>	<b>62.0685</b>	<b>37.5996</b>	<b>0.0926</b>	<b>7.2470</b>	<b>2.6472</b>	<b>9.8942</b>	<b>3.9263</b>	<b>2.4354</b>	<b>6.3617</b>	<b>0.0000</b>	<b>9,150.577 4</b>	<b>9,150.577 4</b>	<b>2.3619</b>	<b>0.0000</b>	<b>9,209.625 4</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	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	49.58	0.00	41.59	54.83	0.00	40.35	0.00	0.00	0.00	0.00	0.00	0.00

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**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	4.2837	0.0771	6.6847	3.5000e-004		0.0370	0.0370		0.0370	0.0370	0.0000	12.0340	12.0340	0.0116	0.0000	12.3234
Energy	0.0732	0.6257	0.2663	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8036	798.8036	0.0153	0.0146	803.5505
Mobile	1.3646	8.1381	16.6881	0.0757	5.8491	0.0406	5.8897	1.5648	0.0379	1.6026		7,730.9814	7,730.9814	0.3132		7,738.8121
<b>Total</b>	<b>5.7215</b>	<b>8.8408</b>	<b>23.6390</b>	<b>0.0800</b>	<b>5.8491</b>	<b>0.1282</b>	<b>5.9773</b>	<b>1.5648</b>	<b>0.1255</b>	<b>1.6902</b>	<b>0.0000</b>	<b>8,541.8190</b>	<b>8,541.8190</b>	<b>0.3401</b>	<b>0.0146</b>	<b>8,554.6860</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	4.2837	0.0771	6.6847	3.5000e-004		0.0370	0.0370		0.0370	0.0370	0.0000	12.0340	12.0340	0.0116	0.0000	12.3234
Energy	0.0732	0.6257	0.2663	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8036	798.8036	0.0153	0.0146	803.5505
Mobile	1.3646	8.1381	16.6881	0.0757	5.8491	0.0406	5.8897	1.5648	0.0379	1.6026		7,730.9814	7,730.9814	0.3132		7,738.8121
<b>Total</b>	<b>5.7215</b>	<b>8.8408</b>	<b>23.6390</b>	<b>0.0800</b>	<b>5.8491</b>	<b>0.1282</b>	<b>5.9773</b>	<b>1.5648</b>	<b>0.1255</b>	<b>1.6902</b>	<b>0.0000</b>	<b>8,541.8190</b>	<b>8,541.8190</b>	<b>0.3401</b>	<b>0.0146</b>	<b>8,554.6860</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/4/2021	1/15/2021	5	10	
2	Grading	Grading	1/16/2021	2/26/2021	5	30	
3	Building Construction	Building Construction	2/27/2021	2/24/2023	5	520	
4	Paving 1	Paving	2/27/2021	3/12/2021	5	10	
5	Architectural Coating 1	Architectural Coating	2/1/2022	2/28/2022	5	20	
6	Architectural Coating 2	Architectural Coating	7/17/2022	8/12/2022	5	20	
7	Architectural Coating 3	Architectural Coating	10/1/2022	10/28/2022	5	20	
8	Paving 2	Paving	2/25/2023	3/10/2023	5	10	
9	Architectural Coating 4	Architectural Coating	3/11/2023	4/7/2023	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 2.79

Residential Indoor: 378,675; Residential Outdoor: 126,225; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 7,292 (Architectural Coating – sqft)

#### OffRoad Equipment

## Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving 1	Pavers	2	8.00	130	0.42
Paving 1	Paving Equipment	2	8.00	132	0.36
Paving 1	Rollers	2	8.00	80	0.38
Architectural Coating 1	Air Compressors	1	6.00	78	0.48
Architectural Coating 2	Air Compressors	1	6.00	78	0.48
Architectural Coating 3	Air Compressors	1	6.00	78	0.48
Paving 2	Pavers	2	8.00	130	0.42
Paving 2	Paving Equipment	2	8.00	132	0.36
Paving 2	Rollers	2	8.00	80	0.38
Architectural Coating 4	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	755.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	135.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 1	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 1	1	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 2	1	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 3	1	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 2	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 4	1	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.2 Site Preparation - 2021**

**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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460		2.4343	2.4343		5,523.5047	5,523.5047	1.7864		5,568.1651
<b>Total</b>	<b>5.3428</b>	<b>60.7861</b>	<b>21.8537</b>	<b>0.0570</b>	<b>18.0663</b>	<b>2.6460</b>	<b>20.7123</b>	<b>9.9307</b>	<b>2.4343</b>	<b>12.3650</b>		<b>5,523.5047</b>	<b>5,523.5047</b>	<b>1.7864</b>		<b>5,568.1651</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0853	0.0486	0.6655	1.9200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		191.6552	191.6552	4.5700e-003		191.7694
<b>Total</b>	<b>0.0853</b>	<b>0.0486</b>	<b>0.6655</b>	<b>1.9200e-003</b>	<b>0.2012</b>	<b>1.1900e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.0900e-003</b>	<b>0.0545</b>		<b>191.6552</b>	<b>191.6552</b>	<b>4.5700e-003</b>		<b>191.7694</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.2 Site Preparation - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460		2.4343	2.4343	0.0000	5,523.5047	5,523.5047	1.7864		5,568.1651
<b>Total</b>	<b>5.3428</b>	<b>60.7861</b>	<b>21.8537</b>	<b>0.0570</b>	<b>7.0458</b>	<b>2.6460</b>	<b>9.6918</b>	<b>3.8730</b>	<b>2.4343</b>	<b>6.3073</b>	<b>0.0000</b>	<b>5,523.5047</b>	<b>5,523.5047</b>	<b>1.7864</b>		<b>5,568.1651</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0853	0.0486	0.6655	1.9200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		191.6552	191.6552	4.5700e-003		191.7694
<b>Total</b>	<b>0.0853</b>	<b>0.0486</b>	<b>0.6655</b>	<b>1.9200e-003</b>	<b>0.2012</b>	<b>1.1900e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.0900e-003</b>	<b>0.0545</b>		<b>191.6552</b>	<b>191.6552</b>	<b>4.5700e-003</b>		<b>191.7694</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.3 Grading - 2021**

**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					8.6988	0.0000	8.6988	3.6004	0.0000	3.6004			0.0000			0.0000
Off-Road	4.9185	56.5443	31.2281	0.0715		2.2861	2.2861		2.1032	2.1032		6,925.967 4	6,925.967 4	2.2400		6,981.967 3
<b>Total</b>	<b>4.9185</b>	<b>56.5443</b>	<b>31.2281</b>	<b>0.0715</b>	<b>8.6988</b>	<b>2.2861</b>	<b>10.9849</b>	<b>3.6004</b>	<b>2.1032</b>	<b>5.7036</b>		<b>6,925.967 4</b>	<b>6,925.967 4</b>	<b>2.2400</b>		<b>6,981.967 3</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	0.1225	5.4701	0.7193	0.0190	0.4402	0.0167	0.4569	0.1207	0.0159	0.1366		2,011.659 9	2,011.659 9	0.1168		2,014.581 0
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0948	0.0540	0.7394	2.1400e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		212.9502	212.9502	5.0800e-003		213.0771
<b>Total</b>	<b>0.2173</b>	<b>5.5242</b>	<b>1.4587</b>	<b>0.0211</b>	<b>0.6638</b>	<b>0.0180</b>	<b>0.6818</b>	<b>0.1800</b>	<b>0.0171</b>	<b>0.1971</b>		<b>2,224.610 0</b>	<b>2,224.610 0</b>	<b>0.1219</b>		<b>2,227.658 1</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.3 Grading - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3926	0.0000	3.3926	1.4041	0.0000	1.4041			0.0000			0.0000
Off-Road	4.9185	56.5443	31.2281	0.0715		2.2861	2.2861		2.1032	2.1032	0.0000	6,925.967 4	6,925.967 4	2.2400		6,981.967 3
<b>Total</b>	<b>4.9185</b>	<b>56.5443</b>	<b>31.2281</b>	<b>0.0715</b>	<b>3.3926</b>	<b>2.2861</b>	<b>5.6787</b>	<b>1.4041</b>	<b>2.1032</b>	<b>3.5074</b>	<b>0.0000</b>	<b>6,925.967 4</b>	<b>6,925.967 4</b>	<b>2.2400</b>		<b>6,981.967 3</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	0.1225	5.4701	0.7193	0.0190	0.4402	0.0167	0.4569	0.1207	0.0159	0.1366		2,011.659 9	2,011.659 9	0.1168		2,014.581 0
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0948	0.0540	0.7394	2.1400e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		212.9502	212.9502	5.0800e-003		213.0771
<b>Total</b>	<b>0.2173</b>	<b>5.5242</b>	<b>1.4587</b>	<b>0.0211</b>	<b>0.6638</b>	<b>0.0180</b>	<b>0.6818</b>	<b>0.1800</b>	<b>0.0171</b>	<b>0.1971</b>		<b>2,224.610 0</b>	<b>2,224.610 0</b>	<b>0.1219</b>		<b>2,227.658 1</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.4 Building Construction - 2021**

**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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</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
Vendor	0.1167	4.6270	0.8255	0.0130	0.3202	8.8000e-003	0.3290	0.0922	8.4200e-003	0.1006		1,366.2551	1,366.2551	0.0977		1,368.6987
Worker	0.6400	0.3646	4.9911	0.0144	1.5090	8.8900e-003	1.5179	0.4002	8.1900e-003	0.4084		1,437.4137	1,437.4137	0.0343		1,438.2706
<b>Total</b>	<b>0.7568</b>	<b>4.9916</b>	<b>5.8166</b>	<b>0.0274</b>	<b>1.8292</b>	<b>0.0177</b>	<b>1.8468</b>	<b>0.4924</b>	<b>0.0166</b>	<b>0.5090</b>		<b>2,803.6688</b>	<b>2,803.6688</b>	<b>0.1320</b>		<b>2,806.9693</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.4 Building Construction - 2021**

**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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</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
Vendor	0.1167	4.6270	0.8255	0.0130	0.3202	8.8000e-003	0.3290	0.0922	8.4200e-003	0.1006		1,366.2551	1,366.2551	0.0977		1,368.6987
Worker	0.6400	0.3646	4.9911	0.0144	1.5090	8.8900e-003	1.5179	0.4002	8.1900e-003	0.4084		1,437.4137	1,437.4137	0.0343		1,438.2706
<b>Total</b>	<b>0.7568</b>	<b>4.9916</b>	<b>5.8166</b>	<b>0.0274</b>	<b>1.8292</b>	<b>0.0177</b>	<b>1.8468</b>	<b>0.4924</b>	<b>0.0166</b>	<b>0.5090</b>		<b>2,803.6688</b>	<b>2,803.6688</b>	<b>0.1320</b>		<b>2,806.9693</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</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
Vendor	0.1088	4.3654	0.7678	0.0128	0.3202	7.4000e-003	0.3276	0.0922	7.0800e-003	0.0993		1,354.6259	1,354.6259	0.0926		1,356.9401
Worker	0.5987	0.3281	4.6036	0.0139	1.5090	8.6600e-003	1.5176	0.4002	7.9700e-003	0.4082		1,384.8922	1,384.8922	0.0308		1,385.6618
<b>Total</b>	<b>0.7075</b>	<b>4.6935</b>	<b>5.3715</b>	<b>0.0267</b>	<b>1.8291</b>	<b>0.0161</b>	<b>1.8452</b>	<b>0.4924</b>	<b>0.0151</b>	<b>0.5074</b>		<b>2,739.5180</b>	<b>2,739.5180</b>	<b>0.1234</b>		<b>2,742.6019</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.4 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</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
Vendor	0.1088	4.3654	0.7678	0.0128	0.3202	7.4000e-003	0.3276	0.0922	7.0800e-003	0.0993		1,354.6259	1,354.6259	0.0926		1,356.9401
Worker	0.5987	0.3281	4.6036	0.0139	1.5090	8.6600e-003	1.5176	0.4002	7.9700e-003	0.4082		1,384.8922	1,384.8922	0.0308		1,385.6618
<b>Total</b>	<b>0.7075</b>	<b>4.6935</b>	<b>5.3715</b>	<b>0.0267</b>	<b>1.8291</b>	<b>0.0161</b>	<b>1.8452</b>	<b>0.4924</b>	<b>0.0151</b>	<b>0.5074</b>		<b>2,739.5180</b>	<b>2,739.5180</b>	<b>0.1234</b>		<b>2,742.6019</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</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
Vendor	0.0835	3.2826	0.6768	0.0125	0.3201	3.3000e-003	0.3234	0.0922	3.1600e-003	0.0953		1,318.5977	1,318.5977	0.0710		1,320.3735
Worker	0.5613	0.2959	4.2486	0.0134	1.5090	8.4500e-003	1.5174	0.4002	7.7800e-003	0.4080		1,332.2626	1,332.2626	0.0276		1,332.9535
<b>Total</b>	<b>0.6448</b>	<b>3.5785</b>	<b>4.9254</b>	<b>0.0259</b>	<b>1.8291</b>	<b>0.0118</b>	<b>1.8409</b>	<b>0.4924</b>	<b>0.0109</b>	<b>0.5033</b>		<b>2,650.8604</b>	<b>2,650.8604</b>	<b>0.0987</b>		<b>2,653.3270</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.4 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</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
Vendor	0.0835	3.2826	0.6768	0.0125	0.3201	3.3000e-003	0.3234	0.0922	3.1600e-003	0.0953		1,318.5977	1,318.5977	0.0710		1,320.3735
Worker	0.5613	0.2959	4.2486	0.0134	1.5090	8.4500e-003	1.5174	0.4002	7.7800e-003	0.4080		1,332.2626	1,332.2626	0.0276		1,332.9535
<b>Total</b>	<b>0.6448</b>	<b>3.5785</b>	<b>4.9254</b>	<b>0.0259</b>	<b>1.8291</b>	<b>0.0118</b>	<b>1.8409</b>	<b>0.4924</b>	<b>0.0109</b>	<b>0.5033</b>		<b>2,650.8604</b>	<b>2,650.8604</b>	<b>0.0987</b>		<b>2,653.3270</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.5 Paving 1 - 2021**

**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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.9865</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0711	0.0405	0.5546	1.6000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		159.7126	159.7126	3.8100e-003		159.8078
<b>Total</b>	<b>0.0711</b>	<b>0.0405</b>	<b>0.5546</b>	<b>1.6000e-003</b>	<b>0.1677</b>	<b>9.9000e-004</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.1000e-004</b>	<b>0.0454</b>		<b>159.7126</b>	<b>159.7126</b>	<b>3.8100e-003</b>		<b>159.8078</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.5 Paving 1 - 2021**

**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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.9865</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0711	0.0405	0.5546	1.6000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		159.7126	159.7126	3.8100e-003		159.8078
<b>Total</b>	<b>0.0711</b>	<b>0.0405</b>	<b>0.5546</b>	<b>1.6000e-003</b>	<b>0.1677</b>	<b>9.9000e-004</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.1000e-004</b>	<b>0.0454</b>		<b>159.7126</b>	<b>159.7126</b>	<b>3.8100e-003</b>		<b>159.8078</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.6 Architectural Coating 1 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>60.3998</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1197	0.0656	0.9207	2.7800e-003	0.3018	1.7300e-003	0.3035	0.0800	1.5900e-003	0.0816		276.9784	276.9784	6.1600e-003		277.1324
<b>Total</b>	<b>0.1197</b>	<b>0.0656</b>	<b>0.9207</b>	<b>2.7800e-003</b>	<b>0.3018</b>	<b>1.7300e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5900e-003</b>	<b>0.0816</b>		<b>276.9784</b>	<b>276.9784</b>	<b>6.1600e-003</b>		<b>277.1324</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.6 Architectural Coating 1 - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>60.3998</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1197	0.0656	0.9207	2.7800e-003	0.3018	1.7300e-003	0.3035	0.0800	1.5900e-003	0.0816		276.9784	276.9784	6.1600e-003		277.1324
<b>Total</b>	<b>0.1197</b>	<b>0.0656</b>	<b>0.9207</b>	<b>2.7800e-003</b>	<b>0.3018</b>	<b>1.7300e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5900e-003</b>	<b>0.0816</b>		<b>276.9784</b>	<b>276.9784</b>	<b>6.1600e-003</b>		<b>277.1324</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.7 Architectural Coating 2 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>60.3998</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1197	0.0656	0.9207	2.7800e-003	0.3018	1.7300e-003	0.3035	0.0800	1.5900e-003	0.0816		276.9784	276.9784	6.1600e-003		277.1324
<b>Total</b>	<b>0.1197</b>	<b>0.0656</b>	<b>0.9207</b>	<b>2.7800e-003</b>	<b>0.3018</b>	<b>1.7300e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5900e-003</b>	<b>0.0816</b>		<b>276.9784</b>	<b>276.9784</b>	<b>6.1600e-003</b>		<b>277.1324</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.7 Architectural Coating 2 - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>60.3998</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1197	0.0656	0.9207	2.7800e-003	0.3018	1.7300e-003	0.3035	0.0800	1.5900e-003	0.0816		276.9784	276.9784	6.1600e-003		277.1324
<b>Total</b>	<b>0.1197</b>	<b>0.0656</b>	<b>0.9207</b>	<b>2.7800e-003</b>	<b>0.3018</b>	<b>1.7300e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5900e-003</b>	<b>0.0816</b>		<b>276.9784</b>	<b>276.9784</b>	<b>6.1600e-003</b>		<b>277.1324</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.8 Architectural Coating 3 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>60.3998</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1197	0.0656	0.9207	2.7800e-003	0.3018	1.7300e-003	0.3035	0.0800	1.5900e-003	0.0816		276.9784	276.9784	6.1600e-003		277.1324
<b>Total</b>	<b>0.1197</b>	<b>0.0656</b>	<b>0.9207</b>	<b>2.7800e-003</b>	<b>0.3018</b>	<b>1.7300e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5900e-003</b>	<b>0.0816</b>		<b>276.9784</b>	<b>276.9784</b>	<b>6.1600e-003</b>		<b>277.1324</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.8 Architectural Coating 3 - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>60.3998</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1197	0.0656	0.9207	2.7800e-003	0.3018	1.7300e-003	0.3035	0.0800	1.5900e-003	0.0816		276.9784	276.9784	6.1600e-003		277.1324
<b>Total</b>	<b>0.1197</b>	<b>0.0656</b>	<b>0.9207</b>	<b>2.7800e-003</b>	<b>0.3018</b>	<b>1.7300e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5900e-003</b>	<b>0.0816</b>		<b>276.9784</b>	<b>276.9784</b>	<b>6.1600e-003</b>		<b>277.1324</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.9 Paving 2 - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.7310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.7637</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0624	0.0329	0.4721	1.4900e-003	0.1677	9.4000e-004	0.1686	0.0445	8.6000e-004	0.0453		148.0292	148.0292	3.0700e-003		148.1059
<b>Total</b>	<b>0.0624</b>	<b>0.0329</b>	<b>0.4721</b>	<b>1.4900e-003</b>	<b>0.1677</b>	<b>9.4000e-004</b>	<b>0.1686</b>	<b>0.0445</b>	<b>8.6000e-004</b>	<b>0.0453</b>		<b>148.0292</b>	<b>148.0292</b>	<b>3.0700e-003</b>		<b>148.1059</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.9 Paving 2 - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.7310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.7637</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0624	0.0329	0.4721	1.4900e-003	0.1677	9.4000e-004	0.1686	0.0445	8.6000e-004	0.0453		148.0292	148.0292	3.0700e-003		148.1059
<b>Total</b>	<b>0.0624</b>	<b>0.0329</b>	<b>0.4721</b>	<b>1.4900e-003</b>	<b>0.1677</b>	<b>9.4000e-004</b>	<b>0.1686</b>	<b>0.0445</b>	<b>8.6000e-004</b>	<b>0.0453</b>		<b>148.0292</b>	<b>148.0292</b>	<b>3.0700e-003</b>		<b>148.1059</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.10 Archtectural Coating 4 - 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	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>60.3869</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1123	0.0592	0.8497	2.6700e-003	0.3018	1.6900e-003	0.3035	0.0800	1.5600e-003	0.0816		266.4525	266.4525	5.5300e-003		266.5907
<b>Total</b>	<b>0.1123</b>	<b>0.0592</b>	<b>0.8497</b>	<b>2.6700e-003</b>	<b>0.3018</b>	<b>1.6900e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5600e-003</b>	<b>0.0816</b>		<b>266.4525</b>	<b>266.4525</b>	<b>5.5300e-003</b>		<b>266.5907</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**3.10 Archtectural Coating 4 - 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	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>60.3869</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1123	0.0592	0.8497	2.6700e-003	0.3018	1.6900e-003	0.3035	0.0800	1.5600e-003	0.0816		266.4525	266.4525	5.5300e-003		266.5907
<b>Total</b>	<b>0.1123</b>	<b>0.0592</b>	<b>0.8497</b>	<b>2.6700e-003</b>	<b>0.3018</b>	<b>1.6900e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5600e-003</b>	<b>0.0816</b>		<b>266.4525</b>	<b>266.4525</b>	<b>5.5300e-003</b>		<b>266.5907</b>

**4.0 Operational Detail - Mobile**

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3646	8.1381	16.6881	0.0757	5.8491	0.0406	5.8897	1.5648	0.0379	1.6026		7,730.9814	7,730.9814	0.3132		7,738.8121
Unmitigated	1.3646	8.1381	16.6881	0.0757	5.8491	0.0406	5.8897	1.5648	0.0379	1.6026		7,730.9814	7,730.9814	0.3132		7,738.8121

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	762.21	802.71	698.22	2,593,120	2,593,120
Total	762.21	802.71	698.22	2,593,120	2,593,120

**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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Other Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Single Family Housing	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

**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	0.0732	0.6257	0.2663	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8036	798.8036	0.0153	0.0146	803.5505
NaturalGas Unmitigated	0.0732	0.6257	0.2663	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8036	798.8036	0.0153	0.0146	803.5505

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6789.83	0.0732	0.6257	0.2663	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8036	798.8036	0.0153	0.0146	803.5505
<b>Total</b>		<b>0.0732</b>	<b>0.6257</b>	<b>0.2663</b>	<b>3.9900e-003</b>		<b>0.0506</b>	<b>0.0506</b>		<b>0.0506</b>	<b>0.0506</b>		<b>798.8036</b>	<b>798.8036</b>	<b>0.0153</b>	<b>0.0146</b>	<b>803.5505</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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6.78983	0.0732	0.6257	0.2663	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8036	798.8036	0.0153	0.0146	803.5505
<b>Total</b>		<b>0.0732</b>	<b>0.6257</b>	<b>0.2663</b>	<b>3.9900e-003</b>		<b>0.0506</b>	<b>0.0506</b>		<b>0.0506</b>	<b>0.0506</b>		<b>798.8036</b>	<b>798.8036</b>	<b>0.0153</b>	<b>0.0146</b>	<b>803.5505</b>

**6.0 Area Detail**

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**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	4.2837	0.0771	6.6847	3.5000e-004		0.0370	0.0370		0.0370	0.0370	0.0000	12.0340	12.0340	0.0116	0.0000	12.3234
Unmitigated	4.2837	0.0771	6.6847	3.5000e-004		0.0370	0.0370		0.0370	0.0370	0.0000	12.0340	12.0340	0.0116	0.0000	12.3234

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3298					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7524					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2014	0.0771	6.6847	3.5000e-004		0.0370	0.0370		0.0370	0.0370		12.0340	12.0340	0.0116		12.3234
<b>Total</b>	<b>4.2837</b>	<b>0.0771</b>	<b>6.6847</b>	<b>3.5000e-004</b>		<b>0.0370</b>	<b>0.0370</b>		<b>0.0370</b>	<b>0.0370</b>	<b>0.0000</b>	<b>12.0340</b>	<b>12.0340</b>	<b>0.0116</b>	<b>0.0000</b>	<b>12.3234</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3298					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7524					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2014	0.0771	6.6847	3.5000e-004		0.0370	0.0370		0.0370	0.0370		12.0340	12.0340	0.0116		12.3234
<b>Total</b>	<b>4.2837</b>	<b>0.0771</b>	<b>6.6847</b>	<b>3.5000e-004</b>		<b>0.0370</b>	<b>0.0370</b>		<b>0.0370</b>	<b>0.0370</b>	<b>0.0000</b>	<b>12.0340</b>	<b>12.0340</b>	<b>0.0116</b>	<b>0.0000</b>	<b>12.3234</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Summer

**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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Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**Iris Residential Project - Moreno Valley, CA**  
**Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	2.79	Acre	2.79	121,532.40	0
City Park	3.02	Acre	3.02	131,551.20	0
Single Family Housing	81.00	Dwelling Unit	5.02	187,000.00	232

**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>	534	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

Project Characteristics - SCE CO2 Intensity Factor 2020 to 2029

Land Use - Residential = 81 SFU

Internal Roadways = 2.79 acres

Park area = 3.02 acres

Construction Phase - Construction schedult provided by client

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - .....

Off-road Equipment - Use of larger equipment

Off-road Equipment - ..

Off-road Equipment - ..

Off-road Equipment - Use of Larger equipment

Grading - Soil export of 6,042 cy

Architectural Coating -

Vehicle Trips - Weekday trip generation from the project trip memorandum - EPDS

Weekend trip rates from CalEEMod default values

Woodstoves - Assumes no fireplaces in residential units

Construction Off-road Equipment Mitigation - Applied ffffigitive dust reductions as required under SCAQMD Rule 493

Fleet Mix - SFU fleet mix is the default CalEEMod fleet mix for Riversode County in 2023

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	520.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	10.00
tblFireplaces	FireplaceDayYear	25.00	0.00

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	68.85	0.00
tblFireplaces	NumberNoFireplace	8.10	0.00
tblFireplaces	NumberWood	4.05	0.00
tblGrading	AcresOfGrading	105.00	75.00
tblGrading	AcresOfGrading	20.00	0.00
tblGrading	MaterialExported	0.00	6,042.00
tblLandUse	LandUseSquareFeet	145,800.00	187,000.00
tblLandUse	LotAcreage	26.30	5.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	9.41
tblWoodstoves	NumberCatalytic	4.05	0.00
tblWoodstoves	NumberNoncatalytic	4.05	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.4265	62.1074	36.6814	0.0919	18.2675	2.6472	20.9146	9.9840	2.4354	12.4195	0.0000	9,078.123 7	9,078.123 7	2.3722	0.0000	9,137.429 7
2022	62.9288	21.7529	23.5411	0.0572	2.1309	0.9088	3.0397	0.5724	0.8597	1.4322	0.0000	5,630.116 3	5,630.116 3	0.7657	0.0000	5,649.258 2
2023	60.4977	17.9286	20.4449	0.0510	1.8291	0.7116	2.5407	0.4924	0.6695	1.1618	0.0000	5,020.029 4	5,020.029 4	0.7167	0.0000	5,037.796 1
<b>Maximum</b>	<b>62.9288</b>	<b>62.1074</b>	<b>36.6814</b>	<b>0.0919</b>	<b>18.2675</b>	<b>2.6472</b>	<b>20.9146</b>	<b>9.9840</b>	<b>2.4354</b>	<b>12.4195</b>	<b>0.0000</b>	<b>9,078.123 7</b>	<b>9,078.123 7</b>	<b>2.3722</b>	<b>0.0000</b>	<b>9,137.429 7</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.4265	62.1074	36.6814	0.0919	7.2470	2.6472	9.8942	3.9263	2.4354	6.3617	0.0000	9,078.123 6	9,078.123 6	2.3722	0.0000	9,137.429 7
2022	62.9288	21.7529	23.5411	0.0572	2.1309	0.9088	3.0397	0.5724	0.8597	1.4322	0.0000	5,630.116 3	5,630.116 3	0.7657	0.0000	5,649.258 2
2023	60.4977	17.9286	20.4449	0.0510	1.8291	0.7116	2.5407	0.4924	0.6695	1.1618	0.0000	5,020.029 4	5,020.029 4	0.7167	0.0000	5,037.796 0
<b>Maximum</b>	<b>62.9288</b>	<b>62.1074</b>	<b>36.6814</b>	<b>0.0919</b>	<b>7.2470</b>	<b>2.6472</b>	<b>9.8942</b>	<b>3.9263</b>	<b>2.4354</b>	<b>6.3617</b>	<b>0.0000</b>	<b>9,078.123 6</b>	<b>9,078.123 6</b>	<b>2.3722</b>	<b>0.0000</b>	<b>9,137.429 7</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

	ROG	NOx	CO	SO2	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	49.58	0.00	41.59	54.83	0.00	40.35	0.00	0.00	0.00	0.00	0.00	0.00

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**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	4.2837	0.0771	6.6847	3.5000e-004		0.0370	0.0370		0.0370	0.0370	0.0000	12.0340	12.0340	0.0116	0.0000	12.3234
Energy	0.0732	0.6257	0.2663	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8036	798.8036	0.0153	0.0146	803.5505
Mobile	1.1471	8.1137	14.3367	0.0699	5.8491	0.0409	5.8900	1.5648	0.0381	1.6029		7,146.1542	7,146.1542	0.3201		7,154.1569
<b>Total</b>	<b>5.5040</b>	<b>8.8165</b>	<b>21.2877</b>	<b>0.0742</b>	<b>5.8491</b>	<b>0.1285</b>	<b>5.9775</b>	<b>1.5648</b>	<b>0.1257</b>	<b>1.6905</b>	<b>0.0000</b>	<b>7,956.9918</b>	<b>7,956.9918</b>	<b>0.3470</b>	<b>0.0146</b>	<b>7,970.0307</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	4.2837	0.0771	6.6847	3.5000e-004		0.0370	0.0370		0.0370	0.0370	0.0000	12.0340	12.0340	0.0116	0.0000	12.3234
Energy	0.0732	0.6257	0.2663	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8036	798.8036	0.0153	0.0146	803.5505
Mobile	1.1471	8.1137	14.3367	0.0699	5.8491	0.0409	5.8900	1.5648	0.0381	1.6029		7,146.1542	7,146.1542	0.3201		7,154.1569
<b>Total</b>	<b>5.5040</b>	<b>8.8165</b>	<b>21.2877</b>	<b>0.0742</b>	<b>5.8491</b>	<b>0.1285</b>	<b>5.9775</b>	<b>1.5648</b>	<b>0.1257</b>	<b>1.6905</b>	<b>0.0000</b>	<b>7,956.9918</b>	<b>7,956.9918</b>	<b>0.3470</b>	<b>0.0146</b>	<b>7,970.0307</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/4/2021	1/15/2021	5	10	
2	Grading	Grading	1/16/2021	2/26/2021	5	30	
3	Building Construction	Building Construction	2/27/2021	2/24/2023	5	520	
4	Paving 1	Paving	2/27/2021	3/12/2021	5	10	
5	Architectural Coating 1	Architectural Coating	2/1/2022	2/28/2022	5	20	
6	Architectural Coating 2	Architectural Coating	7/17/2022	8/12/2022	5	20	
7	Architectural Coating 3	Architectural Coating	10/1/2022	10/28/2022	5	20	
8	Paving 2	Paving	2/25/2023	3/10/2023	5	10	
9	Architectural Coating 4	Architectural Coating	3/11/2023	4/7/2023	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 2.79

Residential Indoor: 378,675; Residential Outdoor: 126,225; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 7,292 (Architectural Coating – sqft)

#### OffRoad Equipment

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving 1	Pavers	2	8.00	130	0.42
Paving 1	Paving Equipment	2	8.00	132	0.36
Paving 1	Rollers	2	8.00	80	0.38
Architectural Coating 1	Air Compressors	1	6.00	78	0.48
Architectural Coating 2	Air Compressors	1	6.00	78	0.48
Architectural Coating 3	Air Compressors	1	6.00	78	0.48
Paving 2	Pavers	2	8.00	130	0.42
Paving 2	Paving Equipment	2	8.00	132	0.36
Paving 2	Rollers	2	8.00	80	0.38
Architectural Coating 4	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	755.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	135.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 1	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 1	1	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 2	1	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 3	1	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 2	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 4	1	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.2 Site Preparation - 2021**

**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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460		2.4343	2.4343		5,523.5047	5,523.5047	1.7864		5,568.1651
<b>Total</b>	<b>5.3428</b>	<b>60.7861</b>	<b>21.8537</b>	<b>0.0570</b>	<b>18.0663</b>	<b>2.6460</b>	<b>20.7123</b>	<b>9.9307</b>	<b>2.4343</b>	<b>12.3650</b>		<b>5,523.5047</b>	<b>5,523.5047</b>	<b>1.7864</b>		<b>5,568.1651</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0838	0.0503	0.5372	1.7200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		171.9348	171.9348	3.9700e-003		172.0342
<b>Total</b>	<b>0.0838</b>	<b>0.0503</b>	<b>0.5372</b>	<b>1.7200e-003</b>	<b>0.2012</b>	<b>1.1900e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.0900e-003</b>	<b>0.0545</b>		<b>171.9348</b>	<b>171.9348</b>	<b>3.9700e-003</b>		<b>172.0342</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.2 Site Preparation - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	5.3428	60.7861	21.8537	0.0570		2.6460	2.6460		2.4343	2.4343	0.0000	5,523.5047	5,523.5047	1.7864		5,568.1651
<b>Total</b>	<b>5.3428</b>	<b>60.7861</b>	<b>21.8537</b>	<b>0.0570</b>	<b>7.0458</b>	<b>2.6460</b>	<b>9.6918</b>	<b>3.8730</b>	<b>2.4343</b>	<b>6.3073</b>	<b>0.0000</b>	<b>5,523.5047</b>	<b>5,523.5047</b>	<b>1.7864</b>		<b>5,568.1651</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0838	0.0503	0.5372	1.7200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		171.9348	171.9348	3.9700e-003		172.0342
<b>Total</b>	<b>0.0838</b>	<b>0.0503</b>	<b>0.5372</b>	<b>1.7200e-003</b>	<b>0.2012</b>	<b>1.1900e-003</b>	<b>0.2024</b>	<b>0.0534</b>	<b>1.0900e-003</b>	<b>0.0545</b>		<b>171.9348</b>	<b>171.9348</b>	<b>3.9700e-003</b>		<b>172.0342</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.3 Grading - 2021**

**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					8.6988	0.0000	8.6988	3.6004	0.0000	3.6004			0.0000			0.0000
Off-Road	4.9185	56.5443	31.2281	0.0715		2.2861	2.2861		2.1032	2.1032		6,925.967 4	6,925.967 4	2.2400		6,981.967 3
<b>Total</b>	<b>4.9185</b>	<b>56.5443</b>	<b>31.2281</b>	<b>0.0715</b>	<b>8.6988</b>	<b>2.2861</b>	<b>10.9849</b>	<b>3.6004</b>	<b>2.1032</b>	<b>5.7036</b>		<b>6,925.967 4</b>	<b>6,925.967 4</b>	<b>2.2400</b>		<b>6,981.967 3</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	0.1289	5.5072	0.8391	0.0185	0.4402	0.0169	0.4571	0.1207	0.0162	0.1368		1,961.117 6	1,961.117 6	0.1278		1,964.313 3
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0931	0.0559	0.5969	1.9200e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		191.0387	191.0387	4.4100e-003		191.1491
<b>Total</b>	<b>0.2220</b>	<b>5.5631</b>	<b>1.4360</b>	<b>0.0204</b>	<b>0.6638</b>	<b>0.0182</b>	<b>0.6820</b>	<b>0.1800</b>	<b>0.0174</b>	<b>0.1973</b>		<b>2,152.156 3</b>	<b>2,152.156 3</b>	<b>0.1322</b>		<b>2,155.462 4</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.3 Grading - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3926	0.0000	3.3926	1.4041	0.0000	1.4041			0.0000			0.0000
Off-Road	4.9185	56.5443	31.2281	0.0715		2.2861	2.2861		2.1032	2.1032	0.0000	6,925.967 4	6,925.967 4	2.2400		6,981.967 3
<b>Total</b>	<b>4.9185</b>	<b>56.5443</b>	<b>31.2281</b>	<b>0.0715</b>	<b>3.3926</b>	<b>2.2861</b>	<b>5.6787</b>	<b>1.4041</b>	<b>2.1032</b>	<b>3.5074</b>	<b>0.0000</b>	<b>6,925.967 4</b>	<b>6,925.967 4</b>	<b>2.2400</b>		<b>6,981.967 3</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	0.1289	5.5072	0.8391	0.0185	0.4402	0.0169	0.4571	0.1207	0.0162	0.1368		1,961.117 6	1,961.117 6	0.1278		1,964.313 3
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0931	0.0559	0.5969	1.9200e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		191.0387	191.0387	4.4100e-003		191.1491
<b>Total</b>	<b>0.2220</b>	<b>5.5631</b>	<b>1.4360</b>	<b>0.0204</b>	<b>0.6638</b>	<b>0.0182</b>	<b>0.6820</b>	<b>0.1800</b>	<b>0.0174</b>	<b>0.1973</b>		<b>2,152.156 3</b>	<b>2,152.156 3</b>	<b>0.1322</b>		<b>2,155.462 4</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.4 Building Construction - 2021**

**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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</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
Vendor	0.1240	4.5871	0.9766	0.0125	0.3202	9.0700e-003	0.3292	0.0922	8.6700e-003	0.1009		1,314.8661	1,314.8661	0.1089		1,317.5888
Worker	0.6281	0.3771	4.0288	0.0129	1.5090	8.8900e-003	1.5179	0.4002	8.1900e-003	0.4084		1,289.5113	1,289.5113	0.0298		1,290.2562
<b>Total</b>	<b>0.7521</b>	<b>4.9642</b>	<b>5.0054</b>	<b>0.0254</b>	<b>1.8292</b>	<b>0.0180</b>	<b>1.8471</b>	<b>0.4924</b>	<b>0.0169</b>	<b>0.5092</b>		<b>2,604.3774</b>	<b>2,604.3774</b>	<b>0.1387</b>		<b>2,607.8451</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.4 Building Construction - 2021**

**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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</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
Vendor	0.1240	4.5871	0.9766	0.0125	0.3202	9.0700e-003	0.3292	0.0922	8.6700e-003	0.1009		1,314.8661	1,314.8661	0.1089		1,317.5888
Worker	0.6281	0.3771	4.0288	0.0129	1.5090	8.8900e-003	1.5179	0.4002	8.1900e-003	0.4084		1,289.5113	1,289.5113	0.0298		1,290.2562
<b>Total</b>	<b>0.7521</b>	<b>4.9642</b>	<b>5.0054</b>	<b>0.0254</b>	<b>1.8292</b>	<b>0.0180</b>	<b>1.8471</b>	<b>0.4924</b>	<b>0.0169</b>	<b>0.5092</b>		<b>2,604.3774</b>	<b>2,604.3774</b>	<b>0.1387</b>		<b>2,607.8451</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</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
Vendor	0.1158	4.3217	0.9116	0.0124	0.3202	7.6400e-003	0.3278	0.0922	7.3000e-003	0.0995		1,303.3857	1,303.3857	0.1033		1,305.9669
Worker	0.5892	0.3392	3.7104	0.0125	1.5090	8.6600e-003	1.5176	0.4002	7.9700e-003	0.4082		1,242.4575	1,242.4575	0.0268		1,243.1274
<b>Total</b>	<b>0.7050</b>	<b>4.6609</b>	<b>4.6220</b>	<b>0.0248</b>	<b>1.8291</b>	<b>0.0163</b>	<b>1.8454</b>	<b>0.4924</b>	<b>0.0153</b>	<b>0.5076</b>		<b>2,545.8432</b>	<b>2,545.8432</b>	<b>0.1301</b>		<b>2,549.0943</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.4 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</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
Vendor	0.1158	4.3217	0.9116	0.0124	0.3202	7.6400e-003	0.3278	0.0922	7.3000e-003	0.0995		1,303.3857	1,303.3857	0.1033		1,305.9669
Worker	0.5892	0.3392	3.7104	0.0125	1.5090	8.6600e-003	1.5176	0.4002	7.9700e-003	0.4082		1,242.4575	1,242.4575	0.0268		1,243.1274
<b>Total</b>	<b>0.7050</b>	<b>4.6609</b>	<b>4.6220</b>	<b>0.0248</b>	<b>1.8291</b>	<b>0.0163</b>	<b>1.8454</b>	<b>0.4924</b>	<b>0.0153</b>	<b>0.5076</b>		<b>2,545.8432</b>	<b>2,545.8432</b>	<b>0.1301</b>		<b>2,549.0943</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</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
Vendor	0.0884	3.2380	0.7816	0.0120	0.3201	3.4100e-003	0.3236	0.0922	3.2600e-003	0.0954		1,269.5132	1,269.5132	0.0787		1,271.4816
Worker	0.5542	0.3058	3.4193	0.0120	1.5090	8.4500e-003	1.5174	0.4002	7.7800e-003	0.4080		1,195.3063	1,195.3063	0.0241		1,195.9084
<b>Total</b>	<b>0.6427</b>	<b>3.5438</b>	<b>4.2009</b>	<b>0.0240</b>	<b>1.8291</b>	<b>0.0119</b>	<b>1.8410</b>	<b>0.4924</b>	<b>0.0110</b>	<b>0.5034</b>		<b>2,464.8195</b>	<b>2,464.8195</b>	<b>0.1028</b>		<b>2,467.3900</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.4 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</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
Vendor	0.0884	3.2380	0.7816	0.0120	0.3201	3.4100e-003	0.3236	0.0922	3.2600e-003	0.0954		1,269.5132	1,269.5132	0.0787		1,271.4816
Worker	0.5542	0.3058	3.4193	0.0120	1.5090	8.4500e-003	1.5174	0.4002	7.7800e-003	0.4080		1,195.3063	1,195.3063	0.0241		1,195.9084
<b>Total</b>	<b>0.6427</b>	<b>3.5438</b>	<b>4.2009</b>	<b>0.0240</b>	<b>1.8291</b>	<b>0.0119</b>	<b>1.8410</b>	<b>0.4924</b>	<b>0.0110</b>	<b>0.5034</b>		<b>2,464.8195</b>	<b>2,464.8195</b>	<b>0.1028</b>		<b>2,467.3900</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.5 Paving 1 - 2021**

**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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.9865</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0698	0.0419	0.4476	1.4400e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		143.2790	143.2790	3.3100e-003		143.3618
<b>Total</b>	<b>0.0698</b>	<b>0.0419</b>	<b>0.4476</b>	<b>1.4400e-003</b>	<b>0.1677</b>	<b>9.9000e-004</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.1000e-004</b>	<b>0.0454</b>		<b>143.2790</b>	<b>143.2790</b>	<b>3.3100e-003</b>		<b>143.3618</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.5 Paving 1 - 2021**

**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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.7310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.9865</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0698	0.0419	0.4476	1.4400e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		143.2790	143.2790	3.3100e-003		143.3618
<b>Total</b>	<b>0.0698</b>	<b>0.0419</b>	<b>0.4476</b>	<b>1.4400e-003</b>	<b>0.1677</b>	<b>9.9000e-004</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.1000e-004</b>	<b>0.0454</b>		<b>143.2790</b>	<b>143.2790</b>	<b>3.3100e-003</b>		<b>143.3618</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.6 Architectural Coating 1 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>60.3998</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1179	0.0678	0.7421	2.4900e-003	0.3018	1.7300e-003	0.3035	0.0800	1.5900e-003	0.0816		248.4915	248.4915	5.3600e-003		248.6255
<b>Total</b>	<b>0.1179</b>	<b>0.0678</b>	<b>0.7421</b>	<b>2.4900e-003</b>	<b>0.3018</b>	<b>1.7300e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5900e-003</b>	<b>0.0816</b>		<b>248.4915</b>	<b>248.4915</b>	<b>5.3600e-003</b>		<b>248.6255</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.6 Architectural Coating 1 - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>60.3998</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1179	0.0678	0.7421	2.4900e-003	0.3018	1.7300e-003	0.3035	0.0800	1.5900e-003	0.0816		248.4915	248.4915	5.3600e-003		248.6255
<b>Total</b>	<b>0.1179</b>	<b>0.0678</b>	<b>0.7421</b>	<b>2.4900e-003</b>	<b>0.3018</b>	<b>1.7300e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5900e-003</b>	<b>0.0816</b>		<b>248.4915</b>	<b>248.4915</b>	<b>5.3600e-003</b>		<b>248.6255</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.7 Architectural Coating 2 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>60.3998</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1179	0.0678	0.7421	2.4900e-003	0.3018	1.7300e-003	0.3035	0.0800	1.5900e-003	0.0816		248.4915	248.4915	5.3600e-003		248.6255
<b>Total</b>	<b>0.1179</b>	<b>0.0678</b>	<b>0.7421</b>	<b>2.4900e-003</b>	<b>0.3018</b>	<b>1.7300e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5900e-003</b>	<b>0.0816</b>		<b>248.4915</b>	<b>248.4915</b>	<b>5.3600e-003</b>		<b>248.6255</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.7 Architectural Coating 2 - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>60.3998</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1179	0.0678	0.7421	2.4900e-003	0.3018	1.7300e-003	0.3035	0.0800	1.5900e-003	0.0816		248.4915	248.4915	5.3600e-003		248.6255
<b>Total</b>	<b>0.1179</b>	<b>0.0678</b>	<b>0.7421</b>	<b>2.4900e-003</b>	<b>0.3018</b>	<b>1.7300e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5900e-003</b>	<b>0.0816</b>		<b>248.4915</b>	<b>248.4915</b>	<b>5.3600e-003</b>		<b>248.6255</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.8 Architectural Coating 3 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>60.3998</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1179	0.0678	0.7421	2.4900e-003	0.3018	1.7300e-003	0.3035	0.0800	1.5900e-003	0.0816		248.4915	248.4915	5.3600e-003		248.6255
<b>Total</b>	<b>0.1179</b>	<b>0.0678</b>	<b>0.7421</b>	<b>2.4900e-003</b>	<b>0.3018</b>	<b>1.7300e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5900e-003</b>	<b>0.0816</b>		<b>248.4915</b>	<b>248.4915</b>	<b>5.3600e-003</b>		<b>248.6255</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.8 Architectural Coating 3 - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>60.3998</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1179	0.0678	0.7421	2.4900e-003	0.3018	1.7300e-003	0.3035	0.0800	1.5900e-003	0.0816		248.4915	248.4915	5.3600e-003		248.6255
<b>Total</b>	<b>0.1179</b>	<b>0.0678</b>	<b>0.7421</b>	<b>2.4900e-003</b>	<b>0.3018</b>	<b>1.7300e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5900e-003</b>	<b>0.0816</b>		<b>248.4915</b>	<b>248.4915</b>	<b>5.3600e-003</b>		<b>248.6255</b>

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**3.9 Paving 2 - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.7310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.7637</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0616	0.0340	0.3799	1.3300e-003	0.1677	9.4000e-004	0.1686	0.0445	8.6000e-004	0.0453		132.8118	132.8118	2.6800e-003		132.8787
<b>Total</b>	<b>0.0616</b>	<b>0.0340</b>	<b>0.3799</b>	<b>1.3300e-003</b>	<b>0.1677</b>	<b>9.4000e-004</b>	<b>0.1686</b>	<b>0.0445</b>	<b>8.6000e-004</b>	<b>0.0453</b>		<b>132.8118</b>	<b>132.8118</b>	<b>2.6800e-003</b>		<b>132.8787</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.9 Paving 2 - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.7310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.7637</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0616	0.0340	0.3799	1.3300e-003	0.1677	9.4000e-004	0.1686	0.0445	8.6000e-004	0.0453		132.8118	132.8118	2.6800e-003		132.8787
<b>Total</b>	<b>0.0616</b>	<b>0.0340</b>	<b>0.3799</b>	<b>1.3300e-003</b>	<b>0.1677</b>	<b>9.4000e-004</b>	<b>0.1686</b>	<b>0.0445</b>	<b>8.6000e-004</b>	<b>0.0453</b>		<b>132.8118</b>	<b>132.8118</b>	<b>2.6800e-003</b>		<b>132.8787</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.10 Archtecturaal Coating 4 - 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	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>60.3869</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1108	0.0612	0.6839	2.4000e-003	0.3018	1.6900e-003	0.3035	0.0800	1.5600e-003	0.0816		239.0613	239.0613	4.8200e-003		239.1817
<b>Total</b>	<b>0.1108</b>	<b>0.0612</b>	<b>0.6839</b>	<b>2.4000e-003</b>	<b>0.3018</b>	<b>1.6900e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5600e-003</b>	<b>0.0816</b>		<b>239.0613</b>	<b>239.0613</b>	<b>4.8200e-003</b>		<b>239.1817</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**3.10 Archtectural Coating 4 - 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	60.1952					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>60.3869</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1108	0.0612	0.6839	2.4000e-003	0.3018	1.6900e-003	0.3035	0.0800	1.5600e-003	0.0816		239.0613	239.0613	4.8200e-003		239.1817
<b>Total</b>	<b>0.1108</b>	<b>0.0612</b>	<b>0.6839</b>	<b>2.4000e-003</b>	<b>0.3018</b>	<b>1.6900e-003</b>	<b>0.3035</b>	<b>0.0800</b>	<b>1.5600e-003</b>	<b>0.0816</b>		<b>239.0613</b>	<b>239.0613</b>	<b>4.8200e-003</b>		<b>239.1817</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1471	8.1137	14.3367	0.0699	5.8491	0.0409	5.8900	1.5648	0.0381	1.6029		7,146.1542	7,146.1542	0.3201		7,154.1569
Unmitigated	1.1471	8.1137	14.3367	0.0699	5.8491	0.0409	5.8900	1.5648	0.0381	1.6029		7,146.1542	7,146.1542	0.3201		7,154.1569

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	762.21	802.71	698.22	2,593,120	2,593,120
Total	762.21	802.71	698.22	2,593,120	2,593,120

**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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Other Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Single Family Housing	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

**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	0.0732	0.6257	0.2663	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8036	798.8036	0.0153	0.0146	803.5505
NaturalGas Unmitigated	0.0732	0.6257	0.2663	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8036	798.8036	0.0153	0.0146	803.5505

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**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas 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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6789.83	0.0732	0.6257	0.2663	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8036	798.8036	0.0153	0.0146	803.5505
<b>Total</b>		<b>0.0732</b>	<b>0.6257</b>	<b>0.2663</b>	<b>3.9900e-003</b>		<b>0.0506</b>	<b>0.0506</b>		<b>0.0506</b>	<b>0.0506</b>		<b>798.8036</b>	<b>798.8036</b>	<b>0.0153</b>	<b>0.0146</b>	<b>803.5505</b>

**Mitigated**

	Natural Gas 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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6.78983	0.0732	0.6257	0.2663	3.9900e-003		0.0506	0.0506		0.0506	0.0506		798.8036	798.8036	0.0153	0.0146	803.5505
<b>Total</b>		<b>0.0732</b>	<b>0.6257</b>	<b>0.2663</b>	<b>3.9900e-003</b>		<b>0.0506</b>	<b>0.0506</b>		<b>0.0506</b>	<b>0.0506</b>		<b>798.8036</b>	<b>798.8036</b>	<b>0.0153</b>	<b>0.0146</b>	<b>803.5505</b>

**6.0 Area Detail**

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**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	4.2837	0.0771	6.6847	3.5000e-004		0.0370	0.0370		0.0370	0.0370	0.0000	12.0340	12.0340	0.0116	0.0000	12.3234
Unmitigated	4.2837	0.0771	6.6847	3.5000e-004		0.0370	0.0370		0.0370	0.0370	0.0000	12.0340	12.0340	0.0116	0.0000	12.3234

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3298					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7524					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2014	0.0771	6.6847	3.5000e-004		0.0370	0.0370		0.0370	0.0370		12.0340	12.0340	0.0116		12.3234
<b>Total</b>	<b>4.2837</b>	<b>0.0771</b>	<b>6.6847</b>	<b>3.5000e-004</b>		<b>0.0370</b>	<b>0.0370</b>		<b>0.0370</b>	<b>0.0370</b>	<b>0.0000</b>	<b>12.0340</b>	<b>12.0340</b>	<b>0.0116</b>	<b>0.0000</b>	<b>12.3234</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3298					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.7524					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2014	0.0771	6.6847	3.5000e-004		0.0370	0.0370		0.0370	0.0370		12.0340	12.0340	0.0116		12.3234
<b>Total</b>	<b>4.2837</b>	<b>0.0771</b>	<b>6.6847</b>	<b>3.5000e-004</b>		<b>0.0370</b>	<b>0.0370</b>		<b>0.0370</b>	<b>0.0370</b>	<b>0.0000</b>	<b>12.0340</b>	<b>12.0340</b>	<b>0.0116</b>	<b>0.0000</b>	<b>12.3234</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Winter

**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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Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Annual

**Iris Residential Project - Moreno Valley, CA**  
**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	2.79	Acre	2.79	121,532.40	0
City Park	3.02	Acre	3.02	131,551.20	0
Single Family Housing	81.00	Dwelling Unit	5.02	187,000.00	232

**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>	534	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Annual

Project Characteristics - SCE CO2 Intensity Factor 2020 to 2029

Land Use - Residential = 81 SFU

Internal Roadways = 2.79 acres

Park area = 3.02 acres

Construction Phase - Construction schedult provided by client

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - .....

Off-road Equipment - Use of larger equipment

Off-road Equipment - ..

Off-road Equipment - ..

Off-road Equipment - Use of Larger equipment

Grading - Soil export of 6,042 cy

Architectural Coating -

Vehicle Trips - Weekday trip generation from the project trip memorandum - EPDS

Weekend trip rates from CalEEMod default values

Woodstoves - Assumes no fireplaces in residential units

Construction Off-road Equipment Mitigation - Applied ffffigitive dust reductions as required under SCAQMD Rule 493

Fleet Mix - SFU fleet mix is the default CalEEMod fleet mix for Riversode County in 2023

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	520.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	10.00
tblFireplaces	FireplaceDayYear	25.00	0.00

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tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	68.85	0.00
tblFireplaces	NumberNoFireplace	8.10	0.00
tblFireplaces	NumberWood	4.05	0.00
tblGrading	AcresOfGrading	105.00	75.00
tblGrading	AcresOfGrading	20.00	0.00
tblGrading	MaterialExported	0.00	6,042.00
tblLandUse	LandUseSquareFeet	145,800.00	187,000.00
tblLandUse	LotAcreage	26.30	5.02
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	9.41
tblWoodstoves	NumberCatalytic	4.05	0.00
tblWoodstoves	NumberNoncatalytic	4.05	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

**2.0 Emissions Summary**

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Annual

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4002	3.7752	3.0666	7.6200e-003	0.4304	0.1586	0.5890	0.1602	0.1481	0.3083	0.0000	681.5113	681.5113	0.1184	0.0000	684.4702
2022	2.1220	2.6910	2.8227	6.9700e-003	0.2429	0.1098	0.3526	0.0654	0.1034	0.1689	0.0000	623.3581	623.3581	0.0876	0.0000	625.5468
2023	0.6573	0.4245	0.5119	1.2100e-003	0.0398	0.0175	0.0573	0.0107	0.0165	0.0272	0.0000	107.5658	107.5658	0.0163	0.0000	107.9728
<b>Maximum</b>	<b>2.1220</b>	<b>3.7752</b>	<b>3.0666</b>	<b>7.6200e-003</b>	<b>0.4304</b>	<b>0.1586</b>	<b>0.5890</b>	<b>0.1602</b>	<b>0.1481</b>	<b>0.3083</b>	<b>0.0000</b>	<b>681.5113</b>	<b>681.5113</b>	<b>0.1184</b>	<b>0.0000</b>	<b>684.4702</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4002	3.7752	3.0666	7.6200e-003	0.2957	0.1586	0.4543	0.0969	0.1481	0.2450	0.0000	681.5109	681.5109	0.1184	0.0000	684.4698
2022	2.1220	2.6910	2.8227	6.9700e-003	0.2429	0.1098	0.3526	0.0654	0.1034	0.1689	0.0000	623.3578	623.3578	0.0876	0.0000	625.5464
2023	0.6573	0.4245	0.5119	1.2100e-003	0.0398	0.0175	0.0573	0.0107	0.0165	0.0272	0.0000	107.5658	107.5658	0.0163	0.0000	107.9727
<b>Maximum</b>	<b>2.1220</b>	<b>3.7752</b>	<b>3.0666</b>	<b>7.6200e-003</b>	<b>0.2957</b>	<b>0.1586</b>	<b>0.4543</b>	<b>0.0969</b>	<b>0.1481</b>	<b>0.2450</b>	<b>0.0000</b>	<b>681.5109</b>	<b>681.5109</b>	<b>0.1184</b>	<b>0.0000</b>	<b>684.4698</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	18.89	0.00	13.48	26.76	0.00	12.54	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-4-2021	4-3-2021	1.6899	1.6899
2	4-4-2021	7-3-2021	0.8151	0.8151
3	7-4-2021	10-3-2021	0.8241	0.8241
4	10-4-2021	1-3-2022	0.8205	0.8205
5	1-4-2022	4-3-2022	1.3492	1.3492
6	4-4-2022	7-3-2022	0.7385	0.7385
7	7-4-2022	10-3-2022	1.4108	1.4108
8	10-4-2022	1-3-2023	1.2962	1.2962
9	1-4-2023	4-3-2023	0.9646	0.9646
10	4-4-2023	7-3-2023	0.0884	0.0884
		Highest	1.6899	1.6899

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Annual

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7702	9.6300e-003	0.8356	4.0000e-005		4.6200e-003	4.6200e-003		4.6200e-003	4.6200e-003	0.0000	1.3646	1.3646	1.3100e-003	0.0000	1.3975
Energy	0.0134	0.1142	0.0486	7.3000e-004		9.2300e-003	9.2300e-003		9.2300e-003	9.2300e-003	0.0000	303.2655	303.2655	0.0118	4.3500e-003	304.8562
Mobile	0.1981	1.4196	2.5488	0.0123	0.9899	7.0000e-003	0.9969	0.2652	6.5300e-003	0.2717	0.0000	1,140.5308	1,140.5308	0.0488	0.0000	1,141.7501
Waste						0.0000	0.0000		0.0000	0.0000	19.3613	0.0000	19.3613	1.1442	0.0000	47.9668
Water						0.0000	0.0000		0.0000	0.0000	1.6743	35.2813	36.9556	0.1739	4.4600e-003	42.6308
<b>Total</b>	<b>0.9817</b>	<b>1.5434</b>	<b>3.4330</b>	<b>0.0131</b>	<b>0.9899</b>	<b>0.0209</b>	<b>1.0108</b>	<b>0.2652</b>	<b>0.0204</b>	<b>0.2856</b>	<b>21.0356</b>	<b>1,480.4422</b>	<b>1,501.4778</b>	<b>1.3800</b>	<b>8.8100e-003</b>	<b>1,538.6012</b>

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7702	9.6300e-003	0.8356	4.0000e-005		4.6200e-003	4.6200e-003		4.6200e-003	4.6200e-003	0.0000	1.3646	1.3646	1.3100e-003	0.0000	1.3975
Energy	0.0134	0.1142	0.0486	7.3000e-004		9.2300e-003	9.2300e-003		9.2300e-003	9.2300e-003	0.0000	303.2655	303.2655	0.0118	4.3500e-003	304.8562
Mobile	0.1981	1.4196	2.5488	0.0123	0.9899	7.0000e-003	0.9969	0.2652	6.5300e-003	0.2717	0.0000	1,140.5308	1,140.5308	0.0488	0.0000	1,141.7501
Waste						0.0000	0.0000		0.0000	0.0000	19.3613	0.0000	19.3613	1.1442	0.0000	47.9668
Water						0.0000	0.0000		0.0000	0.0000	1.6743	35.2813	36.9556	0.1739	4.4600e-003	42.6308
<b>Total</b>	<b>0.9817</b>	<b>1.5434</b>	<b>3.4330</b>	<b>0.0131</b>	<b>0.9899</b>	<b>0.0209</b>	<b>1.0108</b>	<b>0.2652</b>	<b>0.0204</b>	<b>0.2856</b>	<b>21.0356</b>	<b>1,480.4422</b>	<b>1,501.4778</b>	<b>1.3800</b>	<b>8.8100e-003</b>	<b>1,538.6012</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
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**

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/4/2021	1/15/2021	5	10	
2	Grading	Grading	1/16/2021	2/26/2021	5	30	
3	Building Construction	Building Construction	2/27/2021	2/24/2023	5	520	
4	Paving 1	Paving	2/27/2021	3/12/2021	5	10	
5	Architectural Coating 1	Architectural Coating	2/1/2022	2/28/2022	5	20	
6	Architectural Coating 2	Architectural Coating	7/17/2022	8/12/2022	5	20	
7	Architectural Coating 3	Architectural Coating	10/1/2022	10/28/2022	5	20	
8	Paving 2	Paving	2/25/2023	3/10/2023	5	10	
9	Architectural Coating 4	Architectural Coating	3/11/2023	4/7/2023	5	20	

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

**Acres of Grading (Grading Phase): 75**

**Acres of Paving: 2.79**

**Residential Indoor: 378,675; Residential Outdoor: 126,225; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 7,292 (Architectural Coating – sqft)**

**OffRoad Equipment**

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving 1	Pavers	2	8.00	130	0.42
Paving 1	Paving Equipment	2	8.00	132	0.36
Paving 1	Rollers	2	8.00	80	0.38
Architectural Coating 1	Air Compressors	1	6.00	78	0.48
Architectural Coating 2	Air Compressors	1	6.00	78	0.48
Architectural Coating 3	Air Compressors	1	6.00	78	0.48
Paving 2	Pavers	2	8.00	130	0.42
Paving 2	Paving Equipment	2	8.00	132	0.36
Paving 2	Rollers	2	8.00	80	0.38
Architectural Coating 4	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Iris Residential Project - Moreno Valley, CA - Riverside-South Coast County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	755.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	135.00	50.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 1	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 1	1	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 2	1	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 3	1	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving 2	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating 4	1	27.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

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**3.2 Site Preparation - 2021**

**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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.3039	0.1093	2.8000e-004		0.0132	0.0132		0.0122	0.0122	0.0000	25.0542	25.0542	8.1000e-003	0.0000	25.2568
<b>Total</b>	<b>0.0267</b>	<b>0.3039</b>	<b>0.1093</b>	<b>2.8000e-004</b>	<b>0.0903</b>	<b>0.0132</b>	<b>0.1036</b>	<b>0.0497</b>	<b>0.0122</b>	<b>0.0618</b>	<b>0.0000</b>	<b>25.0542</b>	<b>25.0542</b>	<b>8.1000e-003</b>	<b>0.0000</b>	<b>25.2568</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.6000e-004	2.8300e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8000	0.8000	2.0000e-005	0.0000	0.8004
<b>Total</b>	<b>3.9000e-004</b>	<b>2.6000e-004</b>	<b>2.8300e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8000</b>	<b>0.8000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.8004</b>

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**3.2 Site Preparation - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0352	0.0000	0.0352	0.0194	0.0000	0.0194	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.3039	0.1093	2.8000e-004		0.0132	0.0132		0.0122	0.0122	0.0000	25.0542	25.0542	8.1000e-003	0.0000	25.2567
<b>Total</b>	<b>0.0267</b>	<b>0.3039</b>	<b>0.1093</b>	<b>2.8000e-004</b>	<b>0.0352</b>	<b>0.0132</b>	<b>0.0485</b>	<b>0.0194</b>	<b>0.0122</b>	<b>0.0315</b>	<b>0.0000</b>	<b>25.0542</b>	<b>25.0542</b>	<b>8.1000e-003</b>	<b>0.0000</b>	<b>25.2567</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.6000e-004	2.8300e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8000	0.8000	2.0000e-005	0.0000	0.8004
<b>Total</b>	<b>3.9000e-004</b>	<b>2.6000e-004</b>	<b>2.8300e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8000</b>	<b>0.8000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.8004</b>

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**3.3 Grading - 2021**

**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					0.1305	0.0000	0.1305	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0738	0.8482	0.4684	1.0700e-003		0.0343	0.0343		0.0316	0.0316	0.0000	94.2470	94.2470	0.0305	0.0000	95.0090
<b>Total</b>	<b>0.0738</b>	<b>0.8482</b>	<b>0.4684</b>	<b>1.0700e-003</b>	<b>0.1305</b>	<b>0.0343</b>	<b>0.1648</b>	<b>0.0540</b>	<b>0.0316</b>	<b>0.0856</b>	<b>0.0000</b>	<b>94.2470</b>	<b>94.2470</b>	<b>0.0305</b>	<b>0.0000</b>	<b>95.0090</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	tons/yr										MT/yr					
Hauling	1.8800e-003	0.0839	0.0116	2.8000e-004	6.5100e-003	2.5000e-004	6.7600e-003	1.7900e-003	2.4000e-004	2.0300e-003	0.0000	27.0853	27.0853	1.6500e-003	0.0000	27.1267
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	1.2900e-003	8.7000e-004	9.4400e-003	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.6665	2.6665	6.0000e-005	0.0000	2.6681
<b>Total</b>	<b>3.1700e-003</b>	<b>0.0848</b>	<b>0.0210</b>	<b>3.1000e-004</b>	<b>9.8100e-003</b>	<b>2.7000e-004</b>	<b>0.0101</b>	<b>2.6700e-003</b>	<b>2.6000e-004</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>29.7519</b>	<b>29.7519</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>29.7948</b>

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**3.3 Grading - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0509	0.0000	0.0509	0.0211	0.0000	0.0211	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0738	0.8482	0.4684	1.0700e-003		0.0343	0.0343		0.0316	0.0316	0.0000	94.2469	94.2469	0.0305	0.0000	95.0089
<b>Total</b>	<b>0.0738</b>	<b>0.8482</b>	<b>0.4684</b>	<b>1.0700e-003</b>	<b>0.0509</b>	<b>0.0343</b>	<b>0.0852</b>	<b>0.0211</b>	<b>0.0316</b>	<b>0.0526</b>	<b>0.0000</b>	<b>94.2469</b>	<b>94.2469</b>	<b>0.0305</b>	<b>0.0000</b>	<b>95.0089</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	tons/yr										MT/yr					
Hauling	1.8800e-003	0.0839	0.0116	2.8000e-004	6.5100e-003	2.5000e-004	6.7600e-003	1.7900e-003	2.4000e-004	2.0300e-003	0.0000	27.0853	27.0853	1.6500e-003	0.0000	27.1267
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	1.2900e-003	8.7000e-004	9.4400e-003	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.6665	2.6665	6.0000e-005	0.0000	2.6681
<b>Total</b>	<b>3.1700e-003</b>	<b>0.0848</b>	<b>0.0210</b>	<b>3.1000e-004</b>	<b>9.8100e-003</b>	<b>2.7000e-004</b>	<b>0.0101</b>	<b>2.6700e-003</b>	<b>2.6000e-004</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>29.7519</b>	<b>29.7519</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>29.7948</b>

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**3.4 Building Construction - 2021**

**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	0.2091	1.9175	1.8233	2.9600e-003		0.1055	0.1055		0.0991	0.0991	0.0000	254.8010	254.8010	0.0615	0.0000	256.3378
<b>Total</b>	<b>0.2091</b>	<b>1.9175</b>	<b>1.8233</b>	<b>2.9600e-003</b>		<b>0.1055</b>	<b>0.1055</b>		<b>0.0991</b>	<b>0.0991</b>	<b>0.0000</b>	<b>254.8010</b>	<b>254.8010</b>	<b>0.0615</b>	<b>0.0000</b>	<b>256.3378</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	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	0.0131	0.5128	0.0987	1.4000e-003	0.0347	9.8000e-004	0.0357	0.0100	9.4000e-004	0.0110	0.0000	134.1853	134.1853	0.0102	0.0000	134.4412
Worker	0.0637	0.0429	0.4675	1.4600e-003	0.1632	9.8000e-004	0.1642	0.0433	9.0000e-004	0.0442	0.0000	131.9937	131.9937	3.0700e-003	0.0000	132.0706
<b>Total</b>	<b>0.0768</b>	<b>0.5557</b>	<b>0.5662</b>	<b>2.8600e-003</b>	<b>0.1980</b>	<b>1.9600e-003</b>	<b>0.1999</b>	<b>0.0534</b>	<b>1.8400e-003</b>	<b>0.0552</b>	<b>0.0000</b>	<b>266.1790</b>	<b>266.1790</b>	<b>0.0133</b>	<b>0.0000</b>	<b>266.5117</b>

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**3.4 Building Construction - 2021**

**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	0.2091	1.9175	1.8233	2.9600e-003		0.1055	0.1055		0.0991	0.0991	0.0000	254.8007	254.8007	0.0615	0.0000	256.3375
<b>Total</b>	<b>0.2091</b>	<b>1.9175</b>	<b>1.8233</b>	<b>2.9600e-003</b>		<b>0.1055</b>	<b>0.1055</b>		<b>0.0991</b>	<b>0.0991</b>	<b>0.0000</b>	<b>254.8007</b>	<b>254.8007</b>	<b>0.0615</b>	<b>0.0000</b>	<b>256.3375</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	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	0.0131	0.5128	0.0987	1.4000e-003	0.0347	9.8000e-004	0.0357	0.0100	9.4000e-004	0.0110	0.0000	134.1853	134.1853	0.0102	0.0000	134.4412
Worker	0.0637	0.0429	0.4675	1.4600e-003	0.1632	9.8000e-004	0.1642	0.0433	9.0000e-004	0.0442	0.0000	131.9937	131.9937	3.0700e-003	0.0000	132.0706
<b>Total</b>	<b>0.0768</b>	<b>0.5557</b>	<b>0.5662</b>	<b>2.8600e-003</b>	<b>0.1980</b>	<b>1.9600e-003</b>	<b>0.1999</b>	<b>0.0534</b>	<b>1.8400e-003</b>	<b>0.0552</b>	<b>0.0000</b>	<b>266.1790</b>	<b>266.1790</b>	<b>0.0133</b>	<b>0.0000</b>	<b>266.5117</b>

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**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2428</b>	<b>301.2428</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0471</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	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	0.0145	0.5710	0.1086	1.6400e-003	0.0411	9.7000e-004	0.0420	0.0118	9.3000e-004	0.0128	0.0000	157.2185	157.2185	0.0115	0.0000	157.5050
Worker	0.0705	0.0456	0.5090	1.6600e-003	0.1929	1.1300e-003	0.1940	0.0512	1.0400e-003	0.0523	0.0000	150.3002	150.3002	3.2700e-003	0.0000	150.3818
<b>Total</b>	<b>0.0850</b>	<b>0.6166</b>	<b>0.6176</b>	<b>3.3000e-003</b>	<b>0.2340</b>	<b>2.1000e-003</b>	<b>0.2361</b>	<b>0.0631</b>	<b>1.9700e-003</b>	<b>0.0650</b>	<b>0.0000</b>	<b>307.5186</b>	<b>307.5186</b>	<b>0.0147</b>	<b>0.0000</b>	<b>307.8868</b>

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**3.4 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2425</b>	<b>301.2425</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0467</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	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	0.0145	0.5710	0.1086	1.6400e-003	0.0411	9.7000e-004	0.0420	0.0118	9.3000e-004	0.0128	0.0000	157.2185	157.2185	0.0115	0.0000	157.5050
Worker	0.0705	0.0456	0.5090	1.6600e-003	0.1929	1.1300e-003	0.1940	0.0512	1.0400e-003	0.0523	0.0000	150.3002	150.3002	3.2700e-003	0.0000	150.3818
<b>Total</b>	<b>0.0850</b>	<b>0.6166</b>	<b>0.6176</b>	<b>3.3000e-003</b>	<b>0.2340</b>	<b>2.1000e-003</b>	<b>0.2361</b>	<b>0.0631</b>	<b>1.9700e-003</b>	<b>0.0650</b>	<b>0.0000</b>	<b>307.5186</b>	<b>307.5186</b>	<b>0.0147</b>	<b>0.0000</b>	<b>307.8868</b>

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**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0315	0.2877	0.3249	5.4000e-004		0.0140	0.0140		0.0132	0.0132	0.0000	46.3610	46.3610	0.0110	0.0000	46.6367
<b>Total</b>	<b>0.0315</b>	<b>0.2877</b>	<b>0.3249</b>	<b>5.4000e-004</b>		<b>0.0140</b>	<b>0.0140</b>		<b>0.0132</b>	<b>0.0132</b>	<b>0.0000</b>	<b>46.3610</b>	<b>46.3610</b>	<b>0.0110</b>	<b>0.0000</b>	<b>46.6367</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	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	1.7000e-003	0.0657	0.0146	2.5000e-004	6.3200e-003	7.0000e-005	6.3800e-003	1.8200e-003	6.0000e-005	1.8900e-003	0.0000	23.5502	23.5502	1.3500e-003	0.0000	23.5839
Worker	0.0102	6.3300e-003	0.0722	2.5000e-004	0.0297	1.7000e-004	0.0299	7.8800e-003	1.6000e-004	8.0400e-003	0.0000	22.2455	22.2455	4.5000e-004	0.0000	22.2568
<b>Total</b>	<b>0.0119</b>	<b>0.0720</b>	<b>0.0867</b>	<b>5.0000e-004</b>	<b>0.0360</b>	<b>2.4000e-004</b>	<b>0.0362</b>	<b>9.7000e-003</b>	<b>2.2000e-004</b>	<b>9.9300e-003</b>	<b>0.0000</b>	<b>45.7957</b>	<b>45.7957</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>45.8407</b>

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**3.4 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0315	0.2877	0.3249	5.4000e-004		0.0140	0.0140		0.0132	0.0132	0.0000	46.3609	46.3609	0.0110	0.0000	46.6366
<b>Total</b>	<b>0.0315</b>	<b>0.2877</b>	<b>0.3249</b>	<b>5.4000e-004</b>		<b>0.0140</b>	<b>0.0140</b>		<b>0.0132</b>	<b>0.0132</b>	<b>0.0000</b>	<b>46.3609</b>	<b>46.3609</b>	<b>0.0110</b>	<b>0.0000</b>	<b>46.6366</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	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	1.7000e-003	0.0657	0.0146	2.5000e-004	6.3200e-003	7.0000e-005	6.3800e-003	1.8200e-003	6.0000e-005	1.8900e-003	0.0000	23.5502	23.5502	1.3500e-003	0.0000	23.5839
Worker	0.0102	6.3300e-003	0.0722	2.5000e-004	0.0297	1.7000e-004	0.0299	7.8800e-003	1.6000e-004	8.0400e-003	0.0000	22.2455	22.2455	4.5000e-004	0.0000	22.2568
<b>Total</b>	<b>0.0119</b>	<b>0.0720</b>	<b>0.0867</b>	<b>5.0000e-004</b>	<b>0.0360</b>	<b>2.4000e-004</b>	<b>0.0362</b>	<b>9.7000e-003</b>	<b>2.2000e-004</b>	<b>9.9300e-003</b>	<b>0.0000</b>	<b>45.7957</b>	<b>45.7957</b>	<b>1.8000e-003</b>	<b>0.0000</b>	<b>45.8407</b>

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**3.5 Paving 1 - 2021**

**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	6.2800e-003	0.0646	0.0733	1.1000e-004		3.3900e-003	3.3900e-003		3.1200e-003	3.1200e-003	0.0000	10.0117	10.0117	3.2400e-003	0.0000	10.0927
Paving	3.6500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.9300e-003</b>	<b>0.0646</b>	<b>0.0733</b>	<b>1.1000e-004</b>		<b>3.3900e-003</b>	<b>3.3900e-003</b>		<b>3.1200e-003</b>	<b>3.1200e-003</b>	<b>0.0000</b>	<b>10.0117</b>	<b>10.0117</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>10.0927</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.2000e-004	2.3600e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6666	0.6666	2.0000e-005	0.0000	0.6670
<b>Total</b>	<b>3.2000e-004</b>	<b>2.2000e-004</b>	<b>2.3600e-003</b>	<b>1.0000e-005</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>8.3000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.6666</b>	<b>0.6666</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6670</b>

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**3.5 Paving 1 - 2021**

**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	6.2800e-003	0.0646	0.0733	1.1000e-004		3.3900e-003	3.3900e-003		3.1200e-003	3.1200e-003	0.0000	10.0117	10.0117	3.2400e-003	0.0000	10.0927
Paving	3.6500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.9300e-003</b>	<b>0.0646</b>	<b>0.0733</b>	<b>1.1000e-004</b>		<b>3.3900e-003</b>	<b>3.3900e-003</b>		<b>3.1200e-003</b>	<b>3.1200e-003</b>	<b>0.0000</b>	<b>10.0117</b>	<b>10.0117</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>10.0927</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.2000e-004	2.3600e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6666	0.6666	2.0000e-005	0.0000	0.6670
<b>Total</b>	<b>3.2000e-004</b>	<b>2.2000e-004</b>	<b>2.3600e-003</b>	<b>1.0000e-005</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>8.3000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.6666</b>	<b>0.6666</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6670</b>

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**3.6 Architectural Coating 1 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6020					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
<b>Total</b>	<b>0.6040</b>	<b>0.0141</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.5574</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	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	1.0800e-003	7.0000e-004	7.8300e-003	3.0000e-005	2.9700e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.0000e-004	0.0000	2.3123	2.3123	5.0000e-005	0.0000	2.3136
<b>Total</b>	<b>1.0800e-003</b>	<b>7.0000e-004</b>	<b>7.8300e-003</b>	<b>3.0000e-005</b>	<b>2.9700e-003</b>	<b>2.0000e-005</b>	<b>2.9800e-003</b>	<b>7.9000e-004</b>	<b>2.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.3123</b>	<b>2.3123</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.3136</b>

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**3.6 Architectural Coating 1 - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6020					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
<b>Total</b>	<b>0.6040</b>	<b>0.0141</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.5574</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	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	1.0800e-003	7.0000e-004	7.8300e-003	3.0000e-005	2.9700e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.0000e-004	0.0000	2.3123	2.3123	5.0000e-005	0.0000	2.3136
<b>Total</b>	<b>1.0800e-003</b>	<b>7.0000e-004</b>	<b>7.8300e-003</b>	<b>3.0000e-005</b>	<b>2.9700e-003</b>	<b>2.0000e-005</b>	<b>2.9800e-003</b>	<b>7.9000e-004</b>	<b>2.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.3123</b>	<b>2.3123</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.3136</b>

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**3.7 Architectural Coating 2 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6020					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
<b>Total</b>	<b>0.6040</b>	<b>0.0141</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.5574</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	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	1.0800e-003	7.0000e-004	7.8300e-003	3.0000e-005	2.9700e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.0000e-004	0.0000	2.3123	2.3123	5.0000e-005	0.0000	2.3136
<b>Total</b>	<b>1.0800e-003</b>	<b>7.0000e-004</b>	<b>7.8300e-003</b>	<b>3.0000e-005</b>	<b>2.9700e-003</b>	<b>2.0000e-005</b>	<b>2.9800e-003</b>	<b>7.9000e-004</b>	<b>2.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.3123</b>	<b>2.3123</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.3136</b>

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**3.7 Architectural Coating 2 - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6020					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
<b>Total</b>	<b>0.6040</b>	<b>0.0141</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.5574</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	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	1.0800e-003	7.0000e-004	7.8300e-003	3.0000e-005	2.9700e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.0000e-004	0.0000	2.3123	2.3123	5.0000e-005	0.0000	2.3136
<b>Total</b>	<b>1.0800e-003</b>	<b>7.0000e-004</b>	<b>7.8300e-003</b>	<b>3.0000e-005</b>	<b>2.9700e-003</b>	<b>2.0000e-005</b>	<b>2.9800e-003</b>	<b>7.9000e-004</b>	<b>2.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.3123</b>	<b>2.3123</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.3136</b>

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**3.8 Architectural Coating 3 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6020					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
<b>Total</b>	<b>0.6040</b>	<b>0.0141</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.5574</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	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	1.0800e-003	7.0000e-004	7.8300e-003	3.0000e-005	2.9700e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.0000e-004	0.0000	2.3123	2.3123	5.0000e-005	0.0000	2.3136
<b>Total</b>	<b>1.0800e-003</b>	<b>7.0000e-004</b>	<b>7.8300e-003</b>	<b>3.0000e-005</b>	<b>2.9700e-003</b>	<b>2.0000e-005</b>	<b>2.9800e-003</b>	<b>7.9000e-004</b>	<b>2.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.3123</b>	<b>2.3123</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.3136</b>

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**3.8 Architectural Coating 3 - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6020					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
<b>Total</b>	<b>0.6040</b>	<b>0.0141</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.5574</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	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	1.0800e-003	7.0000e-004	7.8300e-003	3.0000e-005	2.9700e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.0000e-004	0.0000	2.3123	2.3123	5.0000e-005	0.0000	2.3136
<b>Total</b>	<b>1.0800e-003</b>	<b>7.0000e-004</b>	<b>7.8300e-003</b>	<b>3.0000e-005</b>	<b>2.9700e-003</b>	<b>2.0000e-005</b>	<b>2.9800e-003</b>	<b>7.9000e-004</b>	<b>2.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.3123</b>	<b>2.3123</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.3136</b>

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**3.9 Paving 2 - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.1600e-003	0.0510	0.0729	1.1000e-004		2.5500e-003	2.5500e-003		2.3500e-003	2.3500e-003	0.0000	10.0134	10.0134	3.2400e-003	0.0000	10.0944
Paving	3.6500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.8100e-003</b>	<b>0.0510</b>	<b>0.0729</b>	<b>1.1000e-004</b>		<b>2.5500e-003</b>	<b>2.5500e-003</b>		<b>2.3500e-003</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>10.0134</b>	<b>10.0134</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>10.0944</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.8000e-004	2.0000e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6179	0.6179	1.0000e-005	0.0000	0.6182
<b>Total</b>	<b>2.8000e-004</b>	<b>1.8000e-004</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>8.3000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.6179</b>	<b>0.6179</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6182</b>

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**3.9 Paving 2 - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.1600e-003	0.0510	0.0729	1.1000e-004		2.5500e-003	2.5500e-003		2.3500e-003	2.3500e-003	0.0000	10.0134	10.0134	3.2400e-003	0.0000	10.0944
Paving	3.6500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.8100e-003</b>	<b>0.0510</b>	<b>0.0729</b>	<b>1.1000e-004</b>		<b>2.5500e-003</b>	<b>2.5500e-003</b>		<b>2.3500e-003</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>10.0134</b>	<b>10.0134</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>10.0944</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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.8000e-004	2.0000e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6179	0.6179	1.0000e-005	0.0000	0.6182
<b>Total</b>	<b>2.8000e-004</b>	<b>1.8000e-004</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>8.3000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.6179</b>	<b>0.6179</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6182</b>

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**3.10 Archtecturaal Coating 4 - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6020					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
<b>Total</b>	<b>0.6039</b>	<b>0.0130</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.5571</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	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	1.0200e-003	6.3000e-004	7.2200e-003	2.0000e-005	2.9700e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.0000e-004	0.0000	2.2246	2.2246	5.0000e-005	0.0000	2.2257
<b>Total</b>	<b>1.0200e-003</b>	<b>6.3000e-004</b>	<b>7.2200e-003</b>	<b>2.0000e-005</b>	<b>2.9700e-003</b>	<b>2.0000e-005</b>	<b>2.9800e-003</b>	<b>7.9000e-004</b>	<b>2.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.2246</b>	<b>2.2246</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.2257</b>

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**3.10 Archtecturaal Coating 4 - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6020					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
<b>Total</b>	<b>0.6039</b>	<b>0.0130</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>		<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.5571</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	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	1.0200e-003	6.3000e-004	7.2200e-003	2.0000e-005	2.9700e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.0000e-004	0.0000	2.2246	2.2246	5.0000e-005	0.0000	2.2257
<b>Total</b>	<b>1.0200e-003</b>	<b>6.3000e-004</b>	<b>7.2200e-003</b>	<b>2.0000e-005</b>	<b>2.9700e-003</b>	<b>2.0000e-005</b>	<b>2.9800e-003</b>	<b>7.9000e-004</b>	<b>2.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.2246</b>	<b>2.2246</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.2257</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1981	1.4196	2.5488	0.0123	0.9899	7.0000e-003	0.9969	0.2652	6.5300e-003	0.2717	0.0000	1,140.5308	1,140.5308	0.0488	0.0000	1,141.7501
Unmitigated	0.1981	1.4196	2.5488	0.0123	0.9899	7.0000e-003	0.9969	0.2652	6.5300e-003	0.2717	0.0000	1,140.5308	1,140.5308	0.0488	0.0000	1,141.7501

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	762.21	802.71	698.22	2,593,120	2,593,120
Total	762.21	802.71	698.22	2,593,120	2,593,120

**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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Other Asphalt Surfaces	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898
Single Family Housing	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	171.0146	171.0146	9.2900e-003	1.9200e-003	171.8194
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	171.0146	171.0146	9.2900e-003	1.9200e-003	171.8194
NaturalGas Mitigated	0.0134	0.1142	0.0486	7.3000e-004		9.2300e-003	9.2300e-003		9.2300e-003	9.2300e-003	0.0000	132.2509	132.2509	2.5300e-003	2.4200e-003	133.0368
NaturalGas Unmitigated	0.0134	0.1142	0.0486	7.3000e-004		9.2300e-003	9.2300e-003		9.2300e-003	9.2300e-003	0.0000	132.2509	132.2509	2.5300e-003	2.4200e-003	133.0368

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.47829e+006	0.0134	0.1142	0.0486	7.3000e-004		9.2300e-003	9.2300e-003		9.2300e-003	9.2300e-003	0.0000	132.2509	132.2509	2.5300e-003	2.4200e-003	133.0368
<b>Total</b>		<b>0.0134</b>	<b>0.1142</b>	<b>0.0486</b>	<b>7.3000e-004</b>		<b>9.2300e-003</b>	<b>9.2300e-003</b>		<b>9.2300e-003</b>	<b>9.2300e-003</b>	<b>0.0000</b>	<b>132.2509</b>	<b>132.2509</b>	<b>2.5300e-003</b>	<b>2.4200e-003</b>	<b>133.0368</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.47829e+006	0.0134	0.1142	0.0486	7.3000e-004		9.2300e-003	9.2300e-003		9.2300e-003	9.2300e-003	0.0000	132.2509	132.2509	2.5300e-003	2.4200e-003	133.0368
<b>Total</b>		<b>0.0134</b>	<b>0.1142</b>	<b>0.0486</b>	<b>7.3000e-004</b>		<b>9.2300e-003</b>	<b>9.2300e-003</b>		<b>9.2300e-003</b>	<b>9.2300e-003</b>	<b>0.0000</b>	<b>132.2509</b>	<b>132.2509</b>	<b>2.5300e-003</b>	<b>2.4200e-003</b>	<b>133.0368</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	706035	171.0146	9.2900e-003	1.9200e-003	171.8194
<b>Total</b>		<b>171.0146</b>	<b>9.2900e-003</b>	<b>1.9200e-003</b>	<b>171.8194</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	706035	171.0146	9.2900e-003	1.9200e-003	171.8194
<b>Total</b>		<b>171.0146</b>	<b>9.2900e-003</b>	<b>1.9200e-003</b>	<b>171.8194</b>

**6.0 Area Detail**

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**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7702	9.6300e-003	0.8356	4.0000e-005		4.6200e-003	4.6200e-003		4.6200e-003	4.6200e-003	0.0000	1.3646	1.3646	1.3100e-003	0.0000	1.3975
Unmitigated	0.7702	9.6300e-003	0.8356	4.0000e-005		4.6200e-003	4.6200e-003		4.6200e-003	4.6200e-003	0.0000	1.3646	1.3646	1.3100e-003	0.0000	1.3975

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0602					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6848					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0252	9.6300e-003	0.8356	4.0000e-005		4.6200e-003	4.6200e-003		4.6200e-003	4.6200e-003	0.0000	1.3646	1.3646	1.3100e-003	0.0000	1.3975
<b>Total</b>	<b>0.7702</b>	<b>9.6300e-003</b>	<b>0.8356</b>	<b>4.0000e-005</b>		<b>4.6200e-003</b>	<b>4.6200e-003</b>		<b>4.6200e-003</b>	<b>4.6200e-003</b>	<b>0.0000</b>	<b>1.3646</b>	<b>1.3646</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>1.3975</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0602					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6848					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0252	9.6300e-003	0.8356	4.0000e-005		4.6200e-003	4.6200e-003		4.6200e-003	4.6200e-003	0.0000	1.3646	1.3646	1.3100e-003	0.0000	1.3975
<b>Total</b>	<b>0.7702</b>	<b>9.6300e-003</b>	<b>0.8356</b>	<b>4.0000e-005</b>		<b>4.6200e-003</b>	<b>4.6200e-003</b>		<b>4.6200e-003</b>	<b>4.6200e-003</b>	<b>0.0000</b>	<b>1.3646</b>	<b>1.3646</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>1.3975</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	36.9556	0.1739	4.4600e-003	42.6308
Unmitigated	36.9556	0.1739	4.4600e-003	42.6308

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 3.59827	9.6831	5.3000e-004	1.1000e-004	9.7287
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.27748 / 3.3271	27.2725	0.1734	4.3500e-003	32.9021
<b>Total</b>		<b>36.9556</b>	<b>0.1739</b>	<b>4.4600e-003</b>	<b>42.6308</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 3.59827	9.6831	5.3000e-004	1.1000e-004	9.7287
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.27748 / 3.3271	27.2725	0.1734	4.3500e-003	32.9021
<b>Total</b>		<b>36.9556</b>	<b>0.1739</b>	<b>4.4600e-003</b>	<b>42.6308</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.3613	1.1442	0.0000	47.9668
Unmitigated	19.3613	1.1442	0.0000	47.9668

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.26	0.0528	3.1200e-003	0.0000	0.1308
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	95.12	19.3085	1.1411	0.0000	47.8360
<b>Total</b>		<b>19.3613</b>	<b>1.1442</b>	<b>0.0000</b>	<b>47.9667</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.26	0.0528	3.1200e-003	0.0000	0.1308
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	95.12	19.3085	1.1411	0.0000	47.8360
<b>Total</b>		<b>19.3613</b>	<b>1.1442</b>	<b>0.0000</b>	<b>47.9667</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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## 11.0 Vegetation

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