



Air Quality and Greenhouse Gas Emission Analysis for the Columbia Heights Residential Development, County of Riverside, California

Report #22-011
March 19, 2022

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1.0 EXISTING AIR QUALITY

1.1 Project Description

The proposed project is to construct 36 new apartment units on 2.27 acres. The project would include 82 parking spaces, and roughly 0.8 acres of landscape area.

The proposed project is located at 25914 Columbia Street in the Hemet area of Riverside County. A vicinity map is provided as Exhibit 1, and the site plan is presented as Exhibit 2. Residences are located north and south of the site. The Desert Hills Memory Care Center is also located north of the project. Residences are also located to the west across Columbia Street from the site.

This report focuses on the potential air quality impacts associated with the construction and operation of this project. Greenhouse gas emissions due to construction and operation are also assessed.

2.0 POTENTIAL CONSTRUCTION IMPACTS

2.1 Thresholds of Significance

2.1.1 Regional Air Quality

In their "1993 CEQA Air Quality Handbook", the SCAQMD has established significance thresholds to assess the impact of project related air pollutant emissions. Table 1 presents these significance thresholds. There are separate thresholds for short-term construction and long-term operational emissions. A project with daily emission rates below these thresholds is considered to have a less than significant effect on air quality. It should be noted the thresholds recommended by the SCAQMD are low and subject to controversy. It is up to the individual lead agencies to determine if the SCAQMD thresholds are appropriate for their projects.

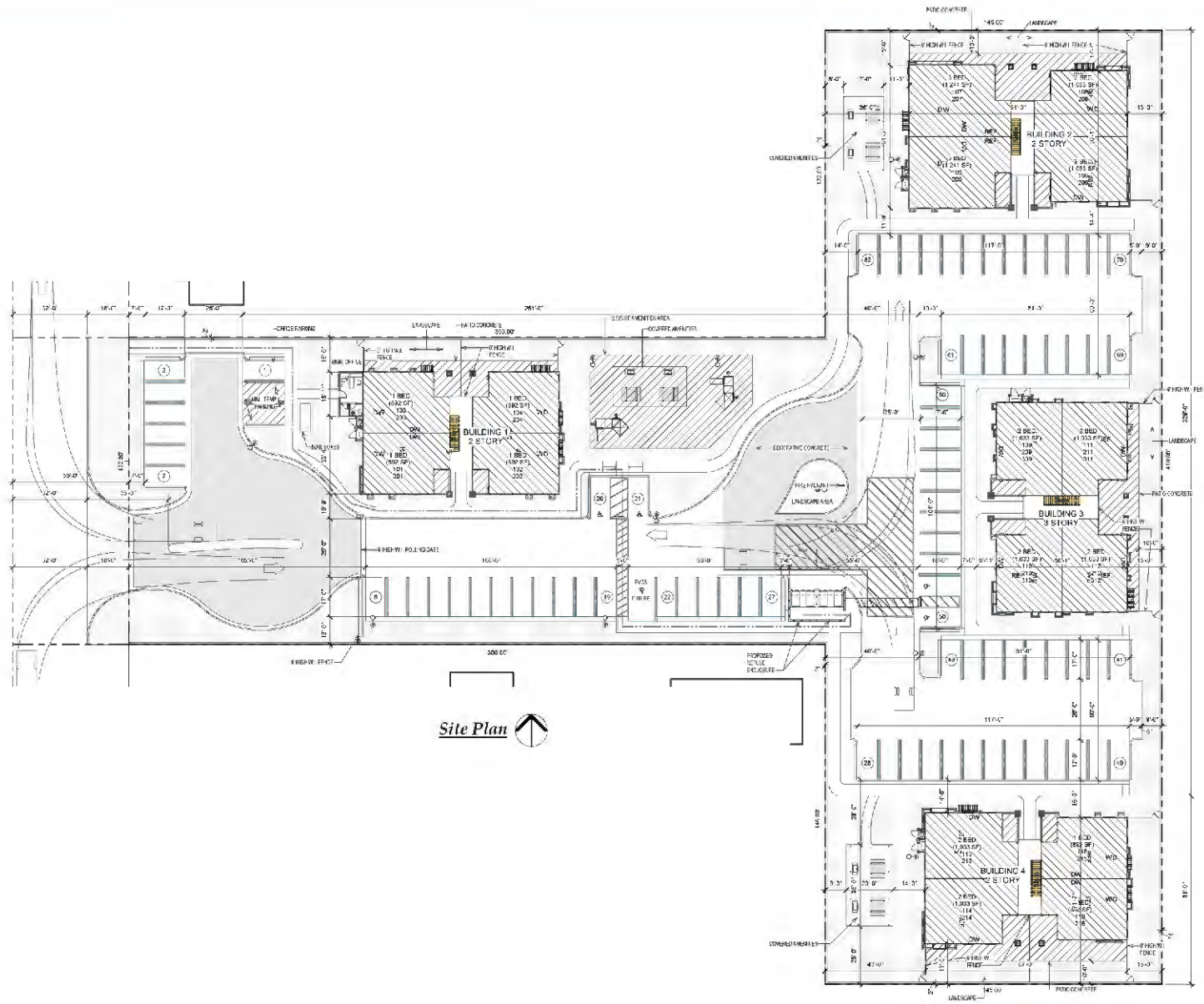
Table 1 SCAQMD Regional Pollutant Emission Thresholds of Significance

	Pollutant Emissions (lbs./day)					
	CO	ROG	NOx	PM10	PM2.5	SOx
<i>Construction</i>	550	75	100	150	55	150
<i>Operation</i>	550	55	55	150	55	150

Exhibit 1 - Vicinity Map



Exhibit 2 - Site Plan



G&A

2.1.2 Localized Significance Thresholds

As part of the SCAQMD's environmental justice program, attention was focused on localized effects of air quality. In accordance with Governing Board direction, SCAQMD staff developed localized significance threshold (LST) methodology and mass rate look-up tables by Source Receptor Area (SRA) that can be used to determine whether or not a project may generate significant adverse localized air quality impacts. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard, and are developed based on the ambient concentrations of that pollutant for each source receptor area. The LST methodology is described in "Final Localized Significance Threshold Methodology" updated in 2009 by the SCAQMD and is available at the SCAQMD website (<http://aqmd.gov/ceqa/handbook/LST/LST.html>).

The LST mass rate look-up tables provided by the SCAQMD allow one to determine if the daily emissions for proposed construction or operational activities could result in significant localized air quality impacts. If the calculated on-site emissions for the proposed construction or operational activities are below the LST emission levels found on the LST mass rate look-up tables and no potentially significant impacts are found to be associated with other environmental issues, then the proposed construction or operation activity is not significant for local air quality.

The LST mass rate look-up tables are applicable to the following pollutants only: oxides of nitrogen (NO_x), carbon monoxide (CO), particulate matter less than 10 microns in aerodynamic diameter (PM₁₀), and particulate matter less than 2.5 microns (PM_{2.5}). LSTs are derived based on the location of the activity (i.e., the source/receptor area); the emission rates of NO_x, CO, PM_{2.5} and PM₁₀; and the distance to the nearest exposed individual.

The LST methodology presents mass emission rates for each SRA, project sizes of 1, 2, and 5 acres, and nearest receptor distances of 25, 50, 100, 200, and 500 meters. For project sizes between the values given, or with receptors at distances between the given receptor distances, the methodology uses linear interpolation to determine the thresholds. If receptors are within 25 meters (82 feet) of the site, the methodology document says that the threshold for the 25 meter distance should be used.

The project is located in Source Receptor Area (SRA) 28, the Hemet/San Jacinto Valley SRA. The nearest existing sensitive land use is a residence south of the project site with only a 10 foot (3 meter) setback from the property, and it is less than 25 meters from significant construction areas. Table 2 summarizes the LSTs for construction and operation. The thresholds listed in Table 2 are based on a 2.27 acre site and a 25 meter (82 feet) distance. A project with daily emission rates below the thresholds during construction and operation is considered to have a less than significant effect on local air quality.

Table 2 Localized Significance Thresholds at the Nearest Receptors

Description	Localized Significance Threshold (lbs./day)			
	NOx	CO	PM10	PM2.5
Construction Activities	246	1,178	8	4
Operation	246	1,178	2	1

2.2 Construction Impacts

Temporary impacts can result from project construction activities. Air pollutants are emitted by construction equipment and fugitive dust is generated during grading and construction.

Emissions during the phases of construction were calculated using the California Emissions Estimator Model (CalEEMod version 2020.4.0). CalEEMod is a computer program developed by the SCAQMD in conjunction with the California Air Resources Board (CARB). The model calculates emissions for construction and operation of various projects. For on-road vehicular emissions, the CalEEMod model utilizes the latest EMFAC emission rates that have also been developed by CARB.

2.2.1 Regional Emissions

CalEEMod considers the following phases in its calculation of construction emissions; demolition, site preparation, grading, building construction, paving, and painting. Import or export of soil is not anticipated for this project. The best estimate is that construction would begin mid-2023, and last about 1 year. The number of acres, dwelling units, parking spaces, and other key elements of the project were input into the CalEEMod to generate the estimate of emissions. It was assumed that the overlap between construction phases would be minimal. No mitigation is assumed for this analysis except for watering the site three times a day during grading operations. Watering of the site during earth moving operations is a typical requirement of the SCAQMD. CalEEMod printouts are included in the Appendix.

Table 3 presents the results of the total emissions calculations for the construction activities discussed above. The highest construction emissions are presented below and represent a worst-case scenario. No mitigation is included in the emissions presented below except for watering during grading. The projected emissions are compared to the Significance Thresholds described in Section 2.1.2. The CalEEMod printouts are included in the Appendix.

Table 3 Peak Construction Emissions

Activity	ROG	Pollutant Emissions (Pounds Per Day)				
		NOx	CO	SOx	PM10	PM2.5
Demolition	1.5	14.4	13.9	0.0	0.9	0.7
Site Preparation	1.3	14.3	10.0	0.0	1.3	0.6
Grading	1.4	14.5	9.0	0.0	3.5	1.9
Building Const.	1.9	14.1	15.6	0.0	1.1	0.7
Paving	1.1	8.1	12.2	0.0	0.6	0.4
Architectural Coating	23.6	1.2	2.0	0.0	0.2	0.1
<i>Max. Daily Emissions</i>	23.6	14.5	15.6	0.0	3.5	1.9
<i>SCAQMD Thresholds</i>	75	100	550	150	150	55
<i>Exceed Threshold?</i>	No	No	No	No	No	No

The projected construction emissions are all well below the significance thresholds established by the SCAQMD. Therefore, there will be no regional air quality impacts due to construction.

2.2.2 Local Air Quality Impacts Due to Construction

The on-site construction emissions were calculated utilizing CalEEMod. The emissions presented in Table 4 are those that would be emitted from activities within the project site. The total on-site construction emissions are compared to the Localized Significance Thresholds (LSTs) described in Section 2.1.2. Worksheets showing the emission calculations are presented in the appendix.

Table 4 On-Site Emissions By Construction Activity

Activity	NOx	Daily Emissions (lbs./day)		
		CO	PM10	PM2.5
Demolition	14.3	13.5	0.7	0.6
Site Preparation	14.3	9.8	1.2	0.6
Grading	14.5	8.7	3.4	1.9
Building Const.	13.6	14.2	0.6	0.6
Paving	8.1	11.7	0.4	0.4
Architectural Coating	1.2	1.8	0.1	0.1
<i>Max. Daily Emissions</i>	14.5	14.2	3.4	1.9
<i>LST Thresholds</i>	246	1,178	8	4
<i>Exceed Threshold?</i>	No	No	No	No

None of the emissions will exceed the LST significance thresholds. Therefore, the nearby residences will not be adversely affected during construction. Local air quality impacts during construction will be less than significant with the proposed mitigation measure.

2.2.3 Diesel Particulate Matter Emissions During Construction

In 1998, the California Air Resources Board (ARB) identified particulate matter from diesel-fueled engines (Diesel Particulate Matter or DPM) as a Toxic Air Contaminant (TAC). It is assumed that the majority of the heavy construction equipment utilized during construction would be diesel fueled and emit DPM.

Impacts from toxic substances are related to cumulative exposure and are assessed over a 70-year period. Cancer risk is expressed as the maximum number of new cases of cancer projected to occur in a population of one million people due to exposure to the cancer-causing substance over a 70-year lifetime (California Environmental Protection Agency, Office of Environmental Health Hazard Assessment, Guide to Health Risk Assessment.) Grading for the project, when the peak diesel exhaust emissions would occur, is expected to take approximately 3 months with all construction expected to be completed in about 1 year. Because of the relatively short duration of construction compared to a 70-year lifespan, diesel emissions resulting from the construction of the project are not expected to result in a significant impact.

2.3 Operational Impacts

2.3.1 Regional Operational Impacts

Air pollutant emissions due to the project were calculated using the CalEEMod program. The program calculated operational emissions for the proposed project. The primary source of emissions generated by the proposed project will be from vehicular travel. Natural gas combustion and re-current painting of the facilities will also contribute to the emissions.

CalEEMod calculates maximum daily emissions for the summertime and wintertime periods. The results presented below are from the summer or winter emissions, whichever are the higher emissions. Output files from the CalEEMod program are presented in the appendix.

Table 5 presents the results of the CalEEMod model showing the maximum daily air pollutant emissions projected for buildout year (2023). The specific data utilized in calculating the emissions are provided in the appendix.

Table 5 Project Emissions (pounds per day)

	ROG	NOx	CO	SOx	PM10	PM2.5
Total Project Emissions	1.7	1.2	11.5	0.0	2.2	0.6
<i>SCAQMD Thresholds</i>	<i>55</i>	<i>55</i>	<i>550</i>	<i>150</i>	<i>150</i>	<i>55</i>
<i>Exceed Thresholds</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>

Table 5 shows that the project emissions are below the SCAQMD thresholds for all criterion pollutants. Therefore, the project will not result in a significant regional air impact and mitigation is not necessary to reduce operational emissions.

Table 6 compares the net change in emissions due to the project to the projected basinwide emissions from the 2016 AQMP. This comparison shows that the project would result in a net increase in emissions that is insignificant in comparison to basinwide emissions.

Table 6 Comparison of Project Emissions with SCAB Emissions

	Pollutant Emissions (tons/day)					
	ROG	NOx	CO	SOx	PM10	PM2.5
Project Emissions	0.0009	0.0006	0.0058	0.0000	0.0011	0.0003
2031 South Coast Air Basin*	345.0	214.0	1,188.0	18.0	N/A	65.0
Project as Percentage of Basin	0.0003%	0.0003%	0.0005%	0.0001%	N/A	0.0005%

* Source: Table 3-4E Final 2016 AQMP

2.3.2 Local Air Quality Impacts Due to Operation

The on-site operational emissions were calculated utilizing CalEEMod. The emissions presented in Table 7 are those that would be emitted from activities within the project site. The total on-site operational emissions are compared to the Localized Significance Thresholds (LSTs) described in Section 2.1.2. Worksheets showing the emission calculations are presented in the appendix.

Table 7 On-Site Emissions By Operations

Activity	Daily Emissions (lbs./day)			
	NOx	CO	PM10	PM2.5
On-Site Emissions	0.2	3.1	0.03	0.03
<i>LST Thresholds</i>	246	1,178	2	1
<i>Exceed Threshold?</i>	No	No	No	No

None of the emissions will exceed the LST significance thresholds, and in fact, are very low. Therefore, the adjacent residences will not be adversely affected during operations. Local air quality impacts during operation will be less than significant, and mitigation measures are not needed.

2.3.3 Summary of Air Quality Modeling

Based on the air quality modeling analysis contained in this report, there will not be significant short-term construction impacts on the regional scale (Section 2.2.1). Additionally, there will not be exceedances of the SCAQMD localized significance thresholds (LST), and therefore, local concentrations of pollutants will not be impacted by the project. Specifically, sensitive receptors, specifically the residents that lie near the project, will not be impacted by construction activities (Section 2.2.2).

The operation of the proposed project will increase regional emissions, but will increase regional emissions by an amount less than the SCAQMD regional thresholds (Section 2.3.1). Additionally, the operational LST analysis indicates that no significant local air quality impacts will result, and specifically the nearby residential areas will not be impacted (Section 2.3.2).

2.3.4 Potential for Odors

Odors are considered significant if they produce a "nuisance". Odor significance for the SCAQMD is based on creating a nuisance per Rule 402. Rule 402 states that "A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property." The SCAQMD has an established Public Nuisance Investigation Policies and Procedures to guide the SCAQMD inspectors in determining whether to issue a Notice of Violation (NOV) for a nuisance. The procedures direct SCAQMD investigators to interview complainants and observe, identify, or otherwise establish evidence odorous emissions. An NOV is issued if a "multiple complaint condition" is documented, defined as six or more complainants.

Odor complaints would be expected to not be an issue with the proposed residences. There will not be any sources of odors. Finally, the facilities must comply with SCAQMD Rule 402 which requires that the facilities cannot be a nuisance and must modify operations to comply.

2.3.5 Compliance with Air Quality Planning

The following section deals with the major air planning requirements for this project. Specifically, consistency of the project with the South Coast Air Quality Management Plan (AQMP) is addressed. As discussed below, consistency with the AQMP is a requirement of the California Environmental Quality Act (CEQA). The federal Clean Air Act (CAA) requires plans to demonstrate attainment of the National Ambient Air Quality Standards for which an area is designated as nonattainment. Further, the California Clean Air Act requires the South Coast Air Quality District (SCAQMD) to revise its plan to reduce pollutant concentrations exceeding the California Ambient Air Quality Standards every three years. In the South Coast Air Basin, the SCAQMD and the Southern California Association of Governments, in coordination with local governments and the private sector, develop the Air Quality Management Plan (AQMP) for the air basin to satisfy these requirements. The AQMP is the most important air management document for the basin because it provides the blueprint for meeting state and federal ambient air quality standards.

An air quality assessment must discuss any inconsistencies between the proposed project and applicable General Plans and regional plans (California Environmental Quality Act (CEQA) guidelines (Section 15125)). Regional plans that apply to the proposed project include the AQMP. In this regard, this section will discuss any inconsistencies between the proposed project and the AQMP.

The purpose of the consistency discussion is to set forth the issues regarding consistency with the assumptions and objectives of the AQMP and discuss whether the project would interfere with the region's ability to comply with Federal and State air quality standards. If the decision-maker determines that the project is inconsistent, the lead agency may consider project modifications or inclusion of mitigation to eliminate the inconsistency.

The SCAQMD's CEQA Handbook states "New or amended GP Elements (including land use zoning and density amendments), Specific Plans, and significant projects must be analyzed for consistency with the AQMP." Strict consistency with all aspects of the plan is usually not required. A proposed project should be considered to be consistent with the plan if it furthers one or more policies and does not obstruct other policies. The Handbook identifies two key indicators of consistency:

- (1) Whether the project will result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emission reductions specified in the AQMP.

- (2) Whether the project will exceed the assumptions in the AQMP or increments based on the year of project buildout and phase.

Both of these criteria are evaluated in the following sections.

Criterion 1 - Increase in the Frequency or Severity of Violations?

Based on the air quality modeling analysis contained in this report, there will not be significant short-term construction impacts on the regional scale. Additionally, there will not be exceedances of the SCAQMD localized significance thresholds (LST), and therefore, local concentrations of pollutants will not be impacted by the project. Therefore, short-term construction activities will not increase the frequency or severity of existing air quality violations.

The proposed project operation will increase regional emissions, but will increase regional emissions by an amount less than the SCAQMD regional thresholds. Additionally, the operational LST analysis indicates that no significant local air quality impacts will result. Because the project is not projected to impact the local or regional air quality, the project is found to be consistent with the AQMP for the first criterion.

Criterion 2 - Exceed Assumptions in the AQMP?

The emphasis of this criterion is to ensure that the analyses conducted for the project are based on the same forecasts as the AQMP. The "Final 2008 Regional Comprehensive Plan" (RCP) presents a "holistic, strategic plan for defining and solving our inter-related housing, traffic, water, air quality, and other regional challenges." The RCP builds off the local AQMP. It supports technology-based control measures, supports local initiatives to reduce greenhouse emissions, and emphasizes the need for better coordination of land use and transportation planning.

Since the SCAG forecasts are not detailed, the test for consistency of this project is not specific. The AQMP assumptions are based upon projections from local general plans. Projects that are consistent with the local general plan are consistent with the AQMP assumptions. The project is proposing density higher than the existing General Plan, however, the emissions from the project will continue to be less than significant. Therefore, the second criterion is met for consistency with the AQMP.

2.3.6 Cumulative Impacts

Cumulative impacts are defined as two or more individual affects that, when considered together, are considerable or that compound or increase other environmental impacts. The cumulative impact from several projects is the change in the environment that results from the incremental impact of the development when added to the impacts of other closely related past, present, and reasonably foreseeable or probable future developments. Cumulative impacts can result from individually minor, but collectively significant developments taking place over a period of time. The CEQA Guidelines Section 1530 (a) and (b) state:

- a) Cumulative impacts shall be discussed when a project's incremental effect is cumulative considerable.
- b) The discussion of cumulatively impacts shall reflect the severity of the impacts and their likelihood of occurrence, but the discussion need not provide as great detail as is provided of the affects attributed to the project. The discussion should be guided by the standards of practicality and reasonableness.

Impacts associated with the Proposed Project would not be considered individually or cumulatively adverse or considerable. Impacts for this project will have a less than significant impact. Specifically, the project is not projected to have any local or regional air quality impacts, the project is consistent with regional air quality plans, and the traffic analysis has concluded that no cumulative impacts will occur. Therefore, no significant adverse cumulative impacts are identified or are anticipated, and no mitigation is required.

3.0 GREENHOUSE GAS EMISSIONS

3.1 Significance Threshold

The Significance Threshold that will be used for this project is based on SCAQMD's suggested tiered approach, which is consistent with CARB's recommendations. The project is not specifically exempted in SB97, and there are no GHG reduction plans that are consistent with the AB32 GHG reduction goals that with a certified final CEQA document that are applicable to the proposed project. Therefore, the project is not compliant with Tiers 1 or 2. The significance of the project will be determined based on compliance with the Tier 3 and 4 requirements. The project will be considered to have a significant impact if total annual GHG emissions exceed 3,000 MTCO₂e (equivalent metric tons of carbon dioxide). If the 3,000 threshold is exceeded then the annual emissions per service population (the number of residents for residential projects and persons employed for commercial projects) should not exceed 4.6 MT CO₂e/yr/person, or a significant impact will be determined. Note that the methodology recommends that total construction emissions be amortized over a 30-year period or the project's expected lifetime if it is less than 30 years.

3.2 County of Riverside Climate Action Plan

The County of Riverside developed a Climate Action Plan (CAP) and updated it in 2019 ("County of Riverside Climate Action Plan Update," Riverside County Planning Department, November 2019). The California Environmental Quality Act (CEQA) Guidelines were amended to address the assessment of greenhouse gas impacts. The County's Climate Action Plan (CAP) provides some direction on how to evaluate the potential GHG impacts with respect to the CEQA Guidelines. According to the CAP, an analysis of the project GHG emissions needs to be done. If it is shown that the annual emissions will be less than 3,000 metric tons of CO₂ equivalent, then no further analysis or mitigation is needed. Specifically, the County on page 6 of the CAP update identifies efficiency measures for projects with less than 3,000 MT CO₂e per year. The measures that are required are as follows.

- Energy efficiency matching or exceeding the Title 24 requirements in effect as of January 2017, and
- Water conservation measures that match the California Green Building Standards Code in effect as of January 2017.

Projects with more than 3,000 MTCO₂e must undergo additional analysis and mitigation per the CAP update.

Many gases make up the group of pollutants that are believed to contribute to the greenhouse effect and are defined in CEQA Guidelines 15364.5. The CalEEMod model was used to project the primary GHG emissions from construction activities, vehicular usage, water consumption, solid waste generation and other operational activities. Electrical generation and natural gas combustion emissions will be included in the operational emissions.

3.3 Construction Emissions

Temporary impacts will result from construction activities. The primary source of GHG emissions generated by construction activities is from the use of diesel-powered construction equipment. Typical emission rates for construction equipment were obtained from CalEEMod (California Emissions Estimator Model). CalEEMod is a computer program that can be used to estimate emissions including operation (vehicle and area) sources, as well as construction projects associated with land development projects in California.

Using CalEEMod, the emissions from construction for the proposed project were calculated and are presented in Table 8. These emissions represent the total level of emissions based on the construction schedule. According to the SCAQMD's CEQA Handbook (Greenhouse Gas CEQA Significance Threshold Stakeholder Working Group #5, August 27, 2008), construction emissions are amortized over the life of the project, defined by SCAQMD as 30 years, and are added to the annual operation emissions. Thus, the project's annualized construction emissions will be added to the operation emissions and compared to the applicable GHG significance threshold. Worksheets showing the specific data used to calculate the construction emissions are presented in the appendix.

Table 8 Construction GHG Emissions (Metric Tons Per Year)

	CO ₂	CH ₄	N ₂ O	CO ₂ e
Total Construction Emissions (Metric Tons)	324.6	0.1	0.0	327.0
Averaged Over 30 Years (Metric Tons Per Year)	10.8	0.0	0.0	10.9

MTCO₂e = metric tons equivalent carbon dioxide (CO₂).

The California Emissions Model (CalEEMod) developed by the SCAQMD in conjunction with the ARB was used to estimate the operational GHG emissions. The results are presented in Table 9. A complete breakdown of the emissions is provided in the Appendix.

Table 9 Annual Project Emissions (Metric Tons)

	CO2	CH4	N2O	CO2E
Annual Operational Emissions	379.5	0.3	0.0	391.7
Annualized Construction Emissions	10.8	0.0	0.0	10.9
Total Annual Emissions	390.3	0.3	0.0	402.6

Table 9 shows that the GHG emissions for the project will be about 403 MTCO₂e per year. This is substantially lower than the SCAQMD Tier 3 screening threshold and the Riverside CAP threshold of 3,000 MTCO₂e per year. The project emissions are below the SCAQMD and CAP thresholds of 3,000 MTCO₂e per year, and therefore, no significant climate change impacts are anticipated.

4.0 MITIGATION MEASURES

4.1 Construction Impacts

No air impacts will occur during construction, and therefore, mitigation measures are not needed. The analysis assumed that the SCAQMD's typical requirement for watering 3 times per day will be implemented.

4.2 Operational Impacts

No air impacts will occur during operation, and therefore, mitigation measures are not needed.

4.3 Climate Change Impacts

Emissions of greenhouse gas are below established thresholds, and therefore, mitigation measures are not needed. The project will need to comply with the Title 24 energy efficiency requirements in effect as of January 2017, and water conservation measures that match the California Green Building Standards Code in effect as of January 2017.

APPENDIX

Columbia Heights - South Coast AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Columbia Heights
South Coast AQMD Air District, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	82.00	Space	0.74	32,800.00	0
Condo/Townhouse	36.00	Dwelling Unit	1.53	36,000.00	103

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Actual site acreages

Demolition -

Woodstoves - No woodstoves or fireplaces

Construction Off-road Equipment Mitigation -

Grading - Actual acreage of project.

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	30.60	0.00
tblFireplaces	NumberNoFireplace	3.60	0.00
tblFireplaces	NumberWood	1.80	0.00
tblGrading	AcresOfGrading	6.00	2.27
tblGrading	AcresOfGrading	4.50	2.27
tblLandUse	LotAcreage	2.25	1.53

Columbia Heights - South Coast AQMD Air District, Winter

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

tblWoodstoves	NumberCatalytic	1.80	0.00
tblWoodstoves	NumberNoncatalytic	1.80	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary**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					
2023	1.8580	14.4911	15.6170	0.0304	6.5351	0.6778	7.1401	3.3832	0.6338	3.9398	0.0000	2,839.1365	2,839.1365	0.7700	0.0352	2,860.8413
2024	23.6443	13.2516	15.4139	0.0302	0.5047	0.5424	1.0471	0.1352	0.5193	0.6545	0.0000	2,825.8441	2,825.8441	0.5453	0.0342	2,847.0658
Maximum	23.6443	14.4911	15.6170	0.0304	6.5351	0.6778	7.1401	3.3832	0.6338	3.9398	0.0000	2,839.1365	2,839.1365	0.7700	0.0352	2,860.8413

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					
2023	1.8580	14.4911	15.6170	0.0304	2.6169	0.6778	3.2218	1.3375	0.6338	1.8941	0.0000	2,839.1365	2,839.1365	0.7700	0.0352	2,860.8413
2024	23.6443	13.2516	15.4139	0.0302	0.5047	0.5424	1.0471	0.1352	0.5193	0.6545	0.0000	2,825.8441	2,825.8441	0.5453	0.0342	2,847.0658
Maximum	23.6443	14.4911	15.6170	0.0304	2.6169	0.6778	3.2218	1.3375	0.6338	1.8941	0.0000	2,839.1365	2,839.1365	0.7700	0.0352	2,860.8413

Columbia Heights - South Coast AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	55.66	0.00	47.86	58.14	0.00	44.53	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8787	0.0343	2.9772	1.6000e-004		0.0165	0.0165		0.0165	0.0165	0.0000	5.3658	5.3658	5.1800e-003	0.0000	5.4953
Energy	0.0224	0.1918	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.8345	244.8345	4.6900e-003	4.4900e-003	246.2894
Mobile	0.8358	0.9953	8.4831	0.0192	2.1099	0.0142	2.1241	0.5623	0.0132	0.5754		1.954.7335	1.954.7335	0.1273	0.0869	1.983.7991
Total	1.7369	1.2214	11.5418	0.0206	2.1099	0.0461	2.1561	0.5623	0.0452	0.6074	0.0000	2,204.9338	2,204.9338	0.1371	0.0914	2,235.5837

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.8787	0.0343	2.9772	1.6000e-004		0.0165	0.0165		0.0165	0.0165	0.0000	5.3658	5.3658	5.1800e-003	0.0000	5.4953
Energy	0.0224	0.1918	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.8345	244.8345	4.6900e-003	4.4900e-003	246.2894
Mobile	0.8358	0.9953	8.4831	0.0192	2.1099	0.0142	2.1241	0.5623	0.0132	0.5754		1.954.7335	1.954.7335	0.1273	0.0869	1.983.7991

Columbia Heights - South Coast AQMD Air District, Winter

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

Total	1.7369	1.2214	11.5418	0.0206	2.1099	0.0461	2.1561	0.5623	0.0452	0.6074	0.0000	2,204.9338	2,204.9338	0.1371	0.0914	2,235.5837
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/3/2023	7/28/2023	5	20	
2	Site Preparation	Site Preparation	7/29/2023	8/2/2023	5	3	
3	Grading	Grading	8/3/2023	8/10/2023	5	6	
4	Building Construction	Building Construction	8/11/2023	6/13/2024	5	220	
5	Paving	Paving	6/14/2024	6/27/2024	5	10	
6	Architectural Coating	Architectural Coating	6/28/2024	7/11/2024	5	10	

Acres of Grading (Site Preparation Phase): 2.27**Acres of Grading (Grading Phase): 2.27****Acres of Paving: 0.74****Residential Indoor: 72,900; Residential Outdoor: 24,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,968 (Architectural****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41

Columbia Heights - South Coast AQMD Air District, Winter

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

Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	7.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	40.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 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
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Columbia Heights - South Coast AQMD Air District, Winter

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

Category	lb/day										lb/day					
Fugitive Dust					0.0798	0.0000	0.0798	0.0121	0.0000	0.0121			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	0.0798	0.6766	0.7565	0.0121	0.6328	0.6449		2,324.3959	2,324.3959	0.5893		2,339.1278

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	7.0000e-004	0.0442	0.0120	2.0000e-004	6.1200e-003	3.2000e-004	6.4400e-003	1.6800e-003	3.1000e-004	1.9800e-003		22.0209	22.0209	1.2200e-003	3.5000e-003	23.0940
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0438	0.0305	0.4127	1.2000e-003	0.1453	8.2000e-004	0.1461	0.0385	7.5000e-004	0.0393		121.1816	121.1816	3.1600e-003	3.1200e-003	122.1894
Total	0.0445	0.0746	0.4247	1.4000e-003	0.1514	1.1400e-003	0.1526	0.0402	1.0600e-003	0.0413		143.2025	143.2025	4.3800e-003	6.6200e-003	145.2833

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					0.0311	0.0000	0.0311	4.7100e-003	0.0000	4.7100e-003			0.0000			0.0000

Columbia Heights - South Coast AQMD Air District, Winter

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

Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	0.0311	0.6766	0.7078	4.7100e-003	0.6328	0.6375	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278

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	7.0000e-004	0.0442	0.0120	2.0000e-004	6.1200e-003	3.2000e-004	6.4400e-003	1.6800e-003	3.1000e-004	1.9800e-003		22.0209	22.0209	1.2200e-003	3.5000e-003	23.0940
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0438	0.0305	0.4127	1.2000e-003	0.1453	8.2000e-004	0.1461	0.0385	7.5000e-004	0.0393		121.1816	121.1816	3.1600e-003	3.1200e-003	122.1894
Total	0.0445	0.0746	0.4247	1.4000e-003	0.1514	1.1400e-003	0.1526	0.0402	1.0600e-003	0.0413		143.2025	143.2025	4.3800e-003	6.6200e-003	145.2833

3.3 Site Preparation - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8025	0.0000	0.8025	0.0867	0.0000	0.0867			0.0000			0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985		2,374.8634	2,374.8634	0.7681		2,394.0654
Total	1.3027	14.2802	9.7820	0.0245	0.8025	0.5419	1.3443	0.0867	0.4985	0.5852		2,374.8634	2,374.8634	0.7681		2,394.0654

Columbia Heights - South Coast AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0270	0.0187	0.2540	7.4000e-004	0.0894	5.0000e-004	0.0899	0.0237	4.6000e-004	0.0242		74.5733	74.5733	1.9500e-003	1.9200e-003	75.1935
Total	0.0270	0.0187	0.2540	7.4000e-004	0.0894	5.0000e-004	0.0899	0.0237	4.6000e-004	0.0242		74.5733	74.5733	1.9500e-003	1.9200e-003	75.1935

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					0.3130	0.0000	0.3130	0.0338	0.0000	0.0338			0.0000			0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985	0.0000	2,374.8634	2,374.8634	0.7681		2,394.0654
Total	1.3027	14.2802	9.7820	0.0245	0.3130	0.5419	0.8548	0.0338	0.4985	0.5323	0.0000	2,374.8634	2,374.8634	0.7681		2,394.0654

Columbia Heights - South Coast AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0270	0.0187	0.2540	7.4000e-004	0.0894	5.0000e-004	0.0899	0.0237	4.6000e-004	0.0242		74.5733	74.5733	1.9500e-003	1.9200e-003	75.1935
Total	0.0270	0.0187	0.2540	7.4000e-004	0.0894	5.0000e-004	0.0899	0.0237	4.6000e-004	0.0242		74.5733	74.5733	1.9500e-003	1.9200e-003	75.1935

3.4 Grading - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4233	0.0000	6.4233	3.3536	0.0000	3.3536			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	6.4233	0.6044	7.0277	3.3536	0.5560	3.9096		1,995.6147	1,995.6147	0.6454		2,011.7503

Unmitigated Construction Off-Site

Columbia Heights - South Coast AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0234	0.3175	9.2000e-004	0.1118	6.3000e-004	0.1124	0.0296	5.8000e-004	0.0302		93.2166	93.2166	2.4300e-003	2.4000e-003	93.9918
Total	0.0337	0.0234	0.3175	9.2000e-004	0.1118	6.3000e-004	0.1124	0.0296	5.8000e-004	0.0302		93.2166	93.2166	2.4300e-003	2.4000e-003	93.9918

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5051	0.0000	2.5051	1.3079	0.0000	1.3079			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	2.5051	0.6044	3.1094	1.3079	0.5560	1.8639	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503

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					

Columbia Heights - South Coast AQMD Air District, Winter

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0337	0.0234	0.3175	9.2000e-004	0.1118	6.3000e-004	0.1124	0.0296	5.8000e-004	0.0302		93.2166	93.2166	2.4300e-003	2.4000e-003	93.9918
Total	0.0337	0.0234	0.3175	9.2000e-004	0.1118	6.3000e-004	0.1124	0.0296	5.8000e-004	0.0302		93.2166	93.2166	2.4300e-003	2.4000e-003	93.9918

3.5 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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.5200e-003	0.3429	0.1328	1.6400e-003	0.0576	1.9100e-003	0.0595	0.0166	1.8300e-003	0.0184		176.7468	176.7468	5.9000e-003	0.0256	184.5261
Worker	0.1348	0.0937	1.2698	3.6900e-003	0.4471	2.5100e-003	0.4496	0.1186	2.3100e-003	0.1209		372.8664	372.8664	9.7300e-003	9.5900e-003	375.9673

Columbia Heights - South Coast AQMD Air District, Winter

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

Total	0.1443	0.4366	1.4026	5.3300e-003	0.5047	4.4200e-003	0.5092	0.1352	4.1400e-003	0.1393		549.6132	549.6132	0.0156	0.0352	560.4934
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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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.5200e-003	0.3429	0.1328	1.6400e-003	0.0576	1.9100e-003	0.0595	0.0166	1.8300e-003	0.0184		176.7468	176.7468	5.9000e-003	0.0256	184.5261
Worker	0.1348	0.0937	1.2698	3.6900e-003	0.4471	2.5100e-003	0.4496	0.1186	2.3100e-003	0.1209		372.8664	372.8664	9.7300e-003	9.5900e-003	375.9673
Total	0.1443	0.4366	1.4026	5.3300e-003	0.5047	4.4200e-003	0.5092	0.1352	4.1400e-003	0.1393		549.6132	549.6132	0.0156	0.0352	560.4934

3.5 Building Construction - 2024

Columbia Heights - South Coast AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.6541	2,289.6541	0.4265		2,300.3154
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.6541	2,289.6541	0.4265		2,300.3154

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2800e-003	0.3445	0.1306	1.6200e-003	0.0576	1.9200e-003	0.0596	0.0166	1.8300e-003	0.0184		174.2093	174.2093	5.9000e-003	0.0253	181.8896
Worker	0.1262	0.0837	1.1831	3.5800e-003	0.4471	2.4000e-003	0.4495	0.1186	2.2100e-003	0.1208		361.9807	361.9807	8.8200e-003	8.9200e-003	364.8608
Total	0.1355	0.4282	1.3137	5.2000e-003	0.5047	4.3200e-003	0.5091	0.1352	4.0400e-003	0.1392		536.1900	536.1900	0.0147	0.0342	546.7504

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
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Columbia Heights - South Coast AQMD Air District, Winter

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

Category	lb/day										lb/day					
Off-Road	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.6541	2,289.6541	0.4265		2,300.3154
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.6541	2,289.6541	0.4265		2,300.3154

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2800e-003	0.3445	0.1306	1.6200e-003	0.0576	1.9200e-003	0.0596	0.0166	1.8300e-003	0.0184		174.2093	174.2093	5.9000e-003	0.0253	181.8896
Worker	0.1262	0.0837	1.1831	3.5800e-003	0.4471	2.4000e-003	0.4495	0.1186	2.2100e-003	0.1208		361.9807	361.9807	8.8200e-003	8.9200e-003	364.8608
Total	0.1355	0.4282	1.3137	5.2000e-003	0.5047	4.3200e-003	0.5091	0.1352	4.0400e-003	0.1392		536.1900	536.1900	0.0147	0.0342	546.7504

3.6 Paving - 2024**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8425	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652		1,710.2024	1,710.2024	0.5420		1,723.7529
Paving	0.1939					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Columbia Heights - South Coast AQMD Air District, Winter

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

Total	1.0364	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652		1,710.2024	1,710.2024	0.5420		1,723.7529
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0473	0.0314	0.4437	1.3400e-003	0.1677	9.0000e-004	0.1686	0.0445	8.3000e-004	0.0453		135.7428	135.7428	3.3100e-003	3.3500e-003	136.8228
Total	0.0473	0.0314	0.4437	1.3400e-003	0.1677	9.0000e-004	0.1686	0.0445	8.3000e-004	0.0453		135.7428	135.7428	3.3100e-003	3.3500e-003	136.8228

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8425	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652	0.0000	1,710.2024	1,710.2024	0.5420		1,723.7529
Paving	0.1939					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0364	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652	0.0000	1,710.2024	1,710.2024	0.5420		1,723.7529

Columbia Heights - South Coast AQMD Air District, Winter

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	Non-Biogenic CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0473	0.0314	0.4437	1.3400e-003	0.1677	9.0000e-004	0.1686	0.0445	8.3000e-004	0.0453		135.7428	135.7428	3.3100e-003	3.3500e-003	136.8228
Total	0.0473	0.0314	0.4437	1.3400e-003	0.1677	9.0000e-004	0.1686	0.0445	8.3000e-004	0.0453		135.7428	135.7428	3.3100e-003	3.3500e-003	136.8228

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Biogenic CO2	Non-Biogenic CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Archit. Coating	23.4383					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	23.6190	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Unmitigated Construction Off-Site

Columbia Heights - South Coast AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0252	0.0167	0.2366	7.2000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		72.3961	72.3961	1.7600e-003	1.7800e-003	72.9722
Total	0.0252	0.0167	0.2366	7.2000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		72.3961	72.3961	1.7600e-003	1.7800e-003	72.9722

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	23.4383					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	23.6190	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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
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Columbia Heights - South Coast AQMD Air District, Winter

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

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0252	0.0167	0.2366	7.2000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		72.3961	72.3961	1.7600e-003	1.7800e-003	72.9722
Total	0.0252	0.0167	0.2366	7.2000e-004	0.0894	4.8000e-004	0.0899	0.0237	4.4000e-004	0.0242		72.3961	72.3961	1.7600e-003	1.7800e-003	72.9722

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

	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10 Total	Fugitive	Exhaust	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8358	0.9953	8.4831	0.0192	2.1099	0.0142	2.1241	0.5623	0.0132	0.5754		1,954.7335	1,954.7335	0.1273	0.0869	1,983.7991
Unmitigated	0.8358	0.9953	8.4831	0.0192	2.1099	0.0142	2.1241	0.5623	0.0132	0.5754		1,954.7335	1,954.7335	0.1273	0.0869	1,983.7991

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	263.52	293.04	226.08	896,622	896,622
Parking Lot	0.00	0.00	0.00		
Total	263.52	293.04	226.08	896,622	896,622

4.3 Trip Type Information

	Miles	Trip %	Trip Purpose %
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Columbia Heights - South Coast AQMD Air District, Winter

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

Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.542450	0.061470	0.185138	0.129299	0.023799	0.006448	0.011958	0.009209	0.000810	0.000503	0.024446	0.000751	0.003721
Parking Lot	0.542450	0.061470	0.185138	0.129299	0.023799	0.006448	0.011958	0.009209	0.000810	0.000503	0.024446	0.000751	0.003721

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					
Natural Gas Mitigated	0.0224	0.1918	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.8345	244.8345	4.6900e-003	4.4900e-003	246.2894
Natural Gas Unmitigated	0.0224	0.1918	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.8345	244.8345	4.6900e-003	4.4900e-003	246.2894

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					

Columbia Heights - South Coast AQMD Air District, Winter

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

Condo/Townhouse	2081.09	0.0224	0.1918	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.8345	244.8345	4.6900e-003	4.4900e-003	246.2894
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0224	0.1918	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.8345	244.8345	4.6900e-003	4.4900e-003	246.2894

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					
Condo/Townhouse	2.08109	0.0224	0.1918	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.8345	244.8345	4.6900e-003	4.4900e-003	246.2894
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0224	0.1918	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.8345	244.8345	4.6900e-003	4.4900e-003	246.2894

6.0 Area Detail**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8787	0.0343	2.9772	1.6000e-004		0.0165	0.0165		0.0165	0.0165	0.0000	5.3658	5.3658	5.1800e-003	0.0000	5.4953

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

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	0.0642					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.7244					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	0.0900	0.0343	2.9772	1.6000e-004		0.0165	0.0165		0.0165	0.0165		5.3658	5.3658	5.1800e-003		5.4953
Total	0.8787	0.0343	2.9772	1.6000e-004		0.0165	0.0165		0.0165	0.0165	0.0000	5.3658	5.3658	5.1800e-003	0.0000	5.4953

Mitigated

[illegible]

Columbia Heights - South Coast AQMD Air District, Winter

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

Landscaping	0.0900	0.0343	2.9772	1.6000e-004		0.0165	0.0165		0.0165	0.0165		5.3658	5.3658	5.1800e-003		5.4953
Total	0.8787	0.0343	2.9772	1.6000e-004		0.0165	0.0165		0.0165	0.0165	0.0000	5.3658	5.3658	5.1800e-003	0.0000	5.4953

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Columbia Heights
South Coast AQMD Air District, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	82.00	Space	0.74	32,800.00	0
Condo/Townhouse	36.00	Dwelling Unit	1.53	36,000.00	103

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Actual site acreages

Demolition -

Woodstoves - No woodstoves or fireplaces

Construction Off-road Equipment Mitigation -

Grading - Actual acreage of project.

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	30.60	0.00
tblFireplaces	NumberNoFireplace	3.60	0.00
tblFireplaces	NumberWood	1.80	0.00
tblGrading	AcresOfGrading	6.00	2.27
tblGrading	AcresOfGrading	4.50	2.27
tblLandUse	LotAcreage	2.25	1.53

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

tblWoodstoves	NumberCatalytic	1.80	0.00
tblWoodstoves	NumberNoncatalytic	1.80	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary**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					
2023	0.1146	0.9190	0.9714	1.8900e-003	0.0483	0.0406	0.0889	0.0175	0.0387	0.0562	0.0000	161.7476	161.7476	0.0288	1.6900e-003	162.9694
2024	0.2261	0.8354	0.9900	1.9200e-003	0.0308	0.0346	0.0653	8.2400e-003	0.0330	0.0413	0.0000	162.8132	162.8132	0.0264	1.8800e-003	164.0314
Maximum	0.2261	0.9190	0.9900	1.9200e-003	0.0483	0.0406	0.0889	0.0175	0.0387	0.0562	0.0000	162.8132	162.8132	0.0288	1.8800e-003	164.0314

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					
2023	0.1146	0.9190	0.9714	1.8900e-003	0.0353	0.0406	0.0759	0.0113	0.0387	0.0499	0.0000	161.7475	161.7475	0.0288	1.6900e-003	162.9692
2024	0.2261	0.8354	0.9900	1.9200e-003	0.0308	0.0346	0.0653	8.2400e-003	0.0330	0.0413	0.0000	162.8131	162.8131	0.0264	1.8800e-003	164.0313
Maximum	0.2261	0.9190	0.9900	1.9200e-003	0.0353	0.0406	0.0759	0.0113	0.0387	0.0499	0.0000	162.8131	162.8131	0.0288	1.8800e-003	164.0313

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	16.43	0.00	8.41	24.40	0.00	6.45	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	7-3-2023	10-2-2023	0.5216				0.5216									
2	10-3-2023	1-2-2024	0.5224				0.5224									
3	1-3-2024	4-2-2024	0.4870				0.4870									
4	4-3-2024	7-2-2024	0.4750				0.4750									
5	7-3-2024	9-30-2024	0.0800				0.0800									
		Highest	0.5224				0.5224									

2.2 Overall Operational

Unmitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
(tons/yr)																
Area	0.1552	4.2900e-003	0.3721	2.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	0.6085	0.6085	5.9000e-004	0.0000	0.6232
Energy	4.1000e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	74.3257	74.3257	3.6300e-003	1.0900e-003	74.7409
Mobile	0.1343	0.1643	1.3986	3.1600e-003	0.3375	2.3000e-003	0.3399	0.0901	2.1400e-003	0.0922	0.0000	292.1013	292.1013	0.0187	0.0129	296.4193
Waste						0.0000	0.0000		0.0000	0.0000	3.3615	0.0000	3.3615	0.1987	0.0000	8.3281
Water						0.0000	0.0000		0.0000	0.0000	0.7441	8.3299	9.0740	0.0771	1.8900e-003	11.5655
Total	0.2936	0.2036	1.7856	3.4000e-003	0.3375	7.1300e-003	0.3447	0.0901	7.0300e-003	0.0971	4.1057	375.3653	379.4710	0.2987	0.0159	391.6769
(MT/yr)																

Mitigated Operational

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1552	4.2900e-003	0.3721	2.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	0.6085	0.6085	5.9000e-004	0.0000	0.6232
Energy	4.1000e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	74.3257	74.3257	3.6300e-003	1.0900e-003	74.7409
Mobile	0.1343	0.1643	1.3986	3.1600e-003	0.3375	2.3000e-003	0.3399	0.0901	2.1400e-003	0.0922	0.0000	292.1013	292.1013	0.0187	0.0129	296.4193
Waste						0.0000	0.0000		0.0000	0.0000	3.3615	0.0000	3.3615	0.1987	0.0000	8.3281
Water						0.0000	0.0000		0.0000	0.0000	0.7441	8.3299	9.0740	0.0771	1.8900e-003	11.5655
Total	0.2936	0.2036	1.7856	3.4000e-003	0.3375	7.1900e-003	0.3447	0.0901	7.0300e-003	0.0971	4.1057	375.3653	379.4710	0.2987	0.0159	391.6769

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/3/2023	7/28/2023	5	20	
2	Site Preparation	Site Preparation	7/29/2023	8/2/2023	5	3	
3	Grading	Grading	8/3/2023	8/10/2023	5	6	
4	Building Construction	Building Construction	8/11/2023	6/13/2024	5	220	
5	Paving	Paving	6/14/2024	6/27/2024	5	10	
6	Architectural Coating	Architectural Coating	6/28/2024	7/11/2024	5	10	

Acres of Grading (Site Preparation Phase): 2.27

Acres of Grading (Grading Phase): 2.27

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Acres of Paving: 0.74****Residential Indoor: 72,900; Residential Outdoor: 24,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,968 (Architectural****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	7.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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

Building Construction	8	40.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1432	0.1346	2.4000e-004		6.7700e-003	6.7700e-003		6.3300e-003	6.3300e-003	0.0000	21.0866	21.0866	5.3500e-003	0.0000	21.2202
Total	0.0147	0.1432	0.1346	2.4000e-004	8.0000e-004	6.7700e-003	7.5700e-003	1.2000e-004	6.3300e-003	6.4500e-003	0.0000	21.0866	21.0866	5.3500e-003	0.0000	21.2202

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	1.0000e-005	4.4000e-004	1.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1996	0.1996	1.0000e-005	3.0000e-005	0.2094
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.1000e-004	4.2400e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1162	1.1162	3.0000e-005	3.0000e-005	1.1254

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Total	4.2000e-004	7.5000e-004	4.3600e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.4900e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3158	1.3158	4.0000e-005	6.0000e-005	1.3348
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.1000e-004	0.0000	3.1000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1432	0.1346	2.4000e-004		6.7700e-003	6.7700e-003		6.3300e-003	6.3300e-003	0.0000	21.0865	21.0865	5.3500e-003	0.0000	21.2202
Total	0.0147	0.1432	0.1346	2.4000e-004	3.1000e-004	6.7700e-003	7.0800e-003	5.0000e-005	6.3300e-003	6.3800e-003	0.0000	21.0865	21.0865	5.3500e-003	0.0000	21.2202

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	1.0000e-005	4.4000e-004	1.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1996	0.1996	1.0000e-005	3.0000e-005	0.2094
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.1000e-004	4.2400e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1162	1.1162	3.0000e-005	3.0000e-005	1.1254
Total	4.2000e-004	7.5000e-004	4.3600e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.4900e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.3158	1.3158	4.0000e-005	6.0000e-005	1.3348

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.3 Site Preparation - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2000e-003	0.0000	1.2000e-003	1.3000e-004	0.0000	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9500e-003	0.0214	0.0147	4.0000e-005		8.1000e-004	8.1000e-004		7.5000e-004	7.5000e-004	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578
Total	1.9500e-003	0.0214	0.0147	4.0000e-005	1.2000e-003	8.1000e-004	2.0100e-003	1.3000e-004	7.5000e-004	8.8000e-004	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.9000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1030	0.1030	0.0000	0.0000	0.1039
Total	4.0000e-005	3.0000e-005	3.9000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1030	0.1030	0.0000	0.0000	0.1039

Mitigated Construction On-Site

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.7000e-004	0.0000	4.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9500e-003	0.0214	0.0147	4.0000e-005		8.1000e-004	8.1000e-004		7.5000e-004	7.5000e-004	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578
Total	1.9500e-003	0.0214	0.0147	4.0000e-005	4.7000e-004	8.1000e-004	1.2800e-003	5.0000e-005	7.5000e-004	8.0000e-004	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.9000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1030	0.1030	0.0000	0.0000	0.1039
Total	4.0000e-005	3.0000e-005	3.9000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1030	0.1030	0.0000	0.0000	0.1039

3.4 Grading - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Fugitive Dust					0.0193	0.0000	0.0193	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0000e-003	0.0434	0.0261	6.0000e-005		1.8100e-003	1.8100e-003		1.6700e-003	1.6700e-003	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751
Total	4.0000e-003	0.0434	0.0261	6.0000e-005	0.0193	1.8100e-003	0.0211	0.0101	1.6700e-003	0.0117	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	7.0000e-005	9.8000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2576	0.2576	1.0000e-005	1.0000e-005	0.2597
Total	9.0000e-005	7.0000e-005	9.8000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2576	0.2576	1.0000e-005	1.0000e-005	0.2597

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5200e-003	0.0000	7.5200e-003	3.9200e-003	0.0000	3.9200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

Off-Road	4.0000e-003	0.0434	0.0261	6.0000e-005		1.8100e-003	1.8100e-003		1.6700e-003	1.6700e-003	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751
Total	4.0000e-003	0.0434	0.0261	6.0000e-005	7.5200e-003	1.8100e-003	9.3300e-003	3.9200e-003	1.6700e-003	5.5900e-003	0.0000	5.4312	5.4312	1.7600e-003	0.0000	5.4751

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	7.0000e-005	9.8000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2576	0.2576	1.0000e-005	1.0000e-005	0.2597
Total	9.0000e-005	7.0000e-005	9.8000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2576	0.2576	1.0000e-005	1.0000e-005	0.2597

3.5 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	0.0865	0.6880	0.7178	1.2600e-003		0.0310	0.0310		0.0297	0.0297	0.0000	104.8895	104.8895	0.0198	0.0000	105.3855
Total	0.0865	0.6880	0.7178	1.2600e-003		0.0310	0.0310		0.0297	0.0297	0.0000	104.8895	104.8895	0.0198	0.0000	105.3855

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9000e-004	0.0173	6.5900e-003	8.0000e-005	2.8700e-003	1.0000e-004	2.9600e-003	8.3000e-004	9.0000e-005	9.2000e-004	0.0000	8.0888	8.0888	2.7000e-004	1.1700e-003	8.4449
Worker	6.3000e-003	4.8400e-003	0.0659	1.9000e-004	0.0222	1.3000e-004	0.0223	5.8900e-003	1.2000e-004	6.0000e-003	0.0000	17.3435	17.3435	4.5000e-004	4.5000e-004	17.4876
Total	6.7900e-003	0.0222	0.0725	2.7000e-004	0.0250	2.3000e-004	0.0253	6.7200e-003	2.1000e-004	6.9200e-003	0.0000	25.4323	25.4323	7.2000e-004	1.6200e-003	25.9324

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	0.0865	0.6880	0.7178	1.2600e-003		0.0310	0.0310		0.0297	0.0297	0.0000	104.8894	104.8894	0.0198	0.0000	105.3853
Total	0.0865	0.6880	0.7178	1.2600e-003		0.0310	0.0310		0.0297	0.0297	0.0000	104.8894	104.8894	0.0198	0.0000	105.3853

Mitigated Construction Off-Site

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

Vendor	5.6000e-004	0.0205	7.6400e-003	1.0000e-004	3.3800e-003	1.1000e-004	3.4900e-003	9.7000e-004	1.1000e-004	1.0800e-003	0.0000	9.3934	9.3934	3.2000e-004	1.3600e-003	9.8075
Worker	6.9300e-003	5.0900e-003	0.0724	2.2000e-004	0.0261	1.4000e-004	0.0263	6.9300e-003	1.3000e-004	7.0700e-003	0.0000	19.8375	19.8375	4.8000e-004	4.9000e-004	19.9952
Total	7.4900e-003	0.0256	0.0800	3.2000e-004	0.0295	2.5000e-004	0.0297	7.9000e-003	2.4000e-004	8.1500e-003	0.0000	29.2309	29.2309	8.0000e-004	1.8500e-003	29.8028

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	0.0950	0.7630	0.8390	1.4900e-003		0.0320	0.0320		0.0307	0.0307	0.0000	123.5896	123.5896	0.0230	0.0000	124.1651
Total	0.0950	0.7630	0.8390	1.4900e-003		0.0320	0.0320		0.0307	0.0307	0.0000	123.5896	123.5896	0.0230	0.0000	124.1651

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	5.6000e-004	0.0205	7.6400e-003	1.0000e-004	3.3800e-003	1.1000e-004	3.4900e-003	9.7000e-004	1.1000e-004	1.0800e-003	0.0000	9.3934	9.3934	3.2000e-004	1.3600e-003	9.8075
Worker	6.9300e-003	5.0900e-003	0.0724	2.2000e-004	0.0261	1.4000e-004	0.0263	6.9300e-003	1.3000e-004	7.0700e-003	0.0000	19.8375	19.8375	4.8000e-004	4.9000e-004	19.9952
Total	7.4900e-003	0.0256	0.0800	3.2000e-004	0.0295	2.5000e-004	0.0297	7.9000e-003	2.4000e-004	8.1500e-003	0.0000	29.2309	29.2309	8.0000e-004	1.8500e-003	29.8028

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.6 Paving - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2100e-003	0.0405	0.0585	9.0000e-005		1.9800e-003	1.9800e-003		1.8300e-003	1.8300e-003	0.0000	7.7574	7.7574	2.4600e-003	0.0000	7.8188
Paving	9.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.1800e-003	0.0405	0.0585	9.0000e-005		1.9800e-003	1.9800e-003		1.8300e-003	1.8300e-003	0.0000	7.7574	7.7574	2.4600e-003	0.0000	7.8188

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	2.2000e-004	1.6000e-004	2.2800e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6251	0.6251	2.0000e-005	2.0000e-005	0.6301
Total	2.2000e-004	1.6000e-004	2.2800e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6251	0.6251	2.0000e-005	2.0000e-005	0.6301

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	4.2100e-003	0.0405	0.0585	9.0000e-005		1.9800e-003	1.9800e-003		1.8300e-003	1.8300e-003	0.0000	7.7573	7.7573	2.4600e-003	0.0000	7.8188
Paving	9.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.1800e-003	0.0405	0.0585	9.0000e-005		1.9800e-003	1.9800e-003		1.8300e-003	1.8300e-003	0.0000	7.7573	7.7573	2.4600e-003	0.0000	7.8188

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	2.2000e-004	1.6000e-004	2.2800e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6251	0.6251	2.0000e-005	2.0000e-005	0.6301
Total	2.2000e-004	1.6000e-004	2.2800e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6251	0.6251	2.0000e-005	2.0000e-005	0.6301

3.7 Architectural Coating - 2024**Unmitigated Construction On-Site**

Mitigated Construction On-Site

Category		tons/yr										MT/yr				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e

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

Archit. Coating	0.1172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-004	6.0900e-003	9.0500e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
Total	0.1181	6.0900e-003	9.0500e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784

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	1.2000e-004	9.0000e-005	1.2200e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3334	0.3334	1.0000e-005	1.0000e-005	0.3361
Total	1.2000e-004	9.0000e-005	1.2200e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3334	0.3334	1.0000e-005	1.0000e-005	0.3361

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Mitigated	0.1343	0.1643	1.3986	3.1600e-003	0.3375	2.3000e-003	0.3399	0.0901	2.1400e-003	0.0922	0.0000	292.1013	292.1013	0.0187	0.0129	296.4193
Unmitigated	0.1343	0.1643	1.3986	3.1600e-003	0.3375	2.3000e-003	0.3399	0.0901	2.1400e-003	0.0922	0.0000	292.1013	292.1013	0.0187	0.0129	296.4193

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	263.52	293.04	226.08	896,622	896,622
Parking Lot	0.00	0.00	0.00		
Total	263.52	293.04	226.08	896,622	896,622

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
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.542450	0.061470	0.185138	0.129299	0.023799	0.006448	0.011958	0.009209	0.000810	0.000503	0.024446	0.000751	0.003721
Parking Lot	0.542450	0.061470	0.185138	0.129299	0.023799	0.006448	0.011958	0.009209	0.000810	0.000503	0.024446	0.000751	0.003721

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33.7906	33.7906	2.8500e-003	3.5000e-004	33.9649
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	33.7906	33.7906	2.8500e-003	3.5000e-004	33.9649
Natural Gas Mitigated	4.1000e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	40.5351	40.5351	7.8000e-004	7.4000e-004	40.7760
Natural Gas Unmitigated	4.1000e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	40.5351	40.5351	7.8000e-004	7.4000e-004	40.7760

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	tons/yr										MT/yr					
Condo/Townhouse	759599	4.1000e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	40.5351	40.5351	7.8000e-004	7.4000e-004	40.7760
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		4.1000e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	40.5351	40.5351	7.8000e-004	7.4000e-004	40.7760

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	tons/yr										MT/yr					

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

Condo/Townhouse	759599	4.1000e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	40.5351	40.5351	7.8000e-004	7.4000e-004	40.7760
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		4.1000e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	40.5351	40.5351	7.8000e-004	7.4000e-004	40.7760

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	179055	31.7547	2.6800e-003	3.2000e-004	31.9185
Parking Lot	11480	2.0359	1.7000e-004	2.0000e-005	2.0464
Total		33.7906	2.8500e-003	3.4000e-004	33.9649

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	179055	31.7547	2.6800e-003	3.2000e-004	31.9185
Parking Lot	11480	2.0359	1.7000e-004	2.0000e-005	2.0464
Total		33.7906	2.8500e-003	3.4000e-004	33.9649

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**6.0 Area Detail****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	0.1552	4.2900e-003	0.3721	2.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	0.6085	0.6085	5.9000e-004	0.0000	0.6232
Unmitigated	0.1552	4.2900e-003	0.3721	2.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	0.6085	0.6085	5.9000e-004	0.0000	0.6232

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	0.0117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1322					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	0.0113	4.2900e-003	0.3721	2.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	0.6085	0.6085	5.9000e-004	0.0000	0.6232
Total	0.1552	4.2900e-003	0.3721	2.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	0.6085	0.6085	5.9000e-004	0.0000	0.6232

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.0117					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1322					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	0.0113	4.2900e-003	0.3721	2.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	0.6085	0.6085	5.9000e-004	0.0000	0.6232
Total	0.1552	4.2900e-003	0.3721	2.0000e-005		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	0.6085	0.6085	5.9000e-004	0.0000	0.6232

7.0 Water Detail**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.0740	0.0771	1.8900e-003	11.5655
Unmitigated	9.0740	0.0771	1.8900e-003	11.5655

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**7.2 Water by Land Use****Unmitigated**

Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	2.34554 / 1.47871	9.0740	0.0771	1.8900e-003	11.5655
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		9.0740	0.0771	1.8900e-003	11.5655

Mitigated

Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	2.34554 / 1.47871	9.0740	0.0771	1.8900e-003	11.5655
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		9.0740	0.0771	1.8900e-003	11.5655

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.3615	0.1987	0.0000	8.3281
Unmitigated	3.3615	0.1987	0.0000	8.3281

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	16.56	3.3615	0.1987	0.0000	8.3281
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		3.3615	0.1987	0.0000	8.3281

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	tons	MT/yr			
Condo/Townhouse	16.56	3.3615	0.1987	0.0000	8.3281
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		3.3615	0.1987	0.0000	8.3281

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