

Air Quality and Greenhouse Gas Analysis

Placer Creek Apartments Project

Prepared for:

RSC ENGINEERING, INC.

APRIL 2017

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Introduction

This Air Quality and Greenhouse Gas Analysis identifies and analyzes the potential environmental impacts from the Placer Creek Apartments Project (proposed project) related to air quality and greenhouse gas (GHG) emissions. The information and analysis in this document is organized in accordance with the checklist in Appendix G of the California Environmental Quality Act (CEQA) Guidelines. If the analysis provided in this document identifies potentially significant environmental effects of the project, mitigation measures that should be applied to the project are prescribed. All modeling results are included as an appendix to this document.

Project Summary

The proposed project is located on an approximately 10-acre site at the southeast corner of Whitney Ranch Parkway and University Avenue in the City of Rocklin, California (see Figure 1). The project site is currently vacant and is predominantly surrounded by other vacant undeveloped land. The site is bound by University Avenue to the west and Whitney Ranch Parkway to the north. An existing multi-family residential development exists across Whitney Ranch Parkway to the north. State Route (SR) 65 is located approximately 0.25-mile west of the site at the closest point. William Jessup University is located within 0.5-mile south of the site. A single-family residential development project known as Woodside has been approved for the area directly south of the project site.

The proposed project would include a total of 232 apartment units (see Figure 2), including 61 one-bedroom, 160 two-bedroom, and 11 three-bedroom units. A 8,610-square-foot clubhouse would be provided at the site, as well as an exterior lounge area and pool. The project site is designated by the City's General Plan as Mixed Use (MU) and is zoned Planned Development Commercial (PD-C). The proposed project would include a rezone of the site from PD-C to Planned Development Residential (22 dwelling units per acre) (PD-22).

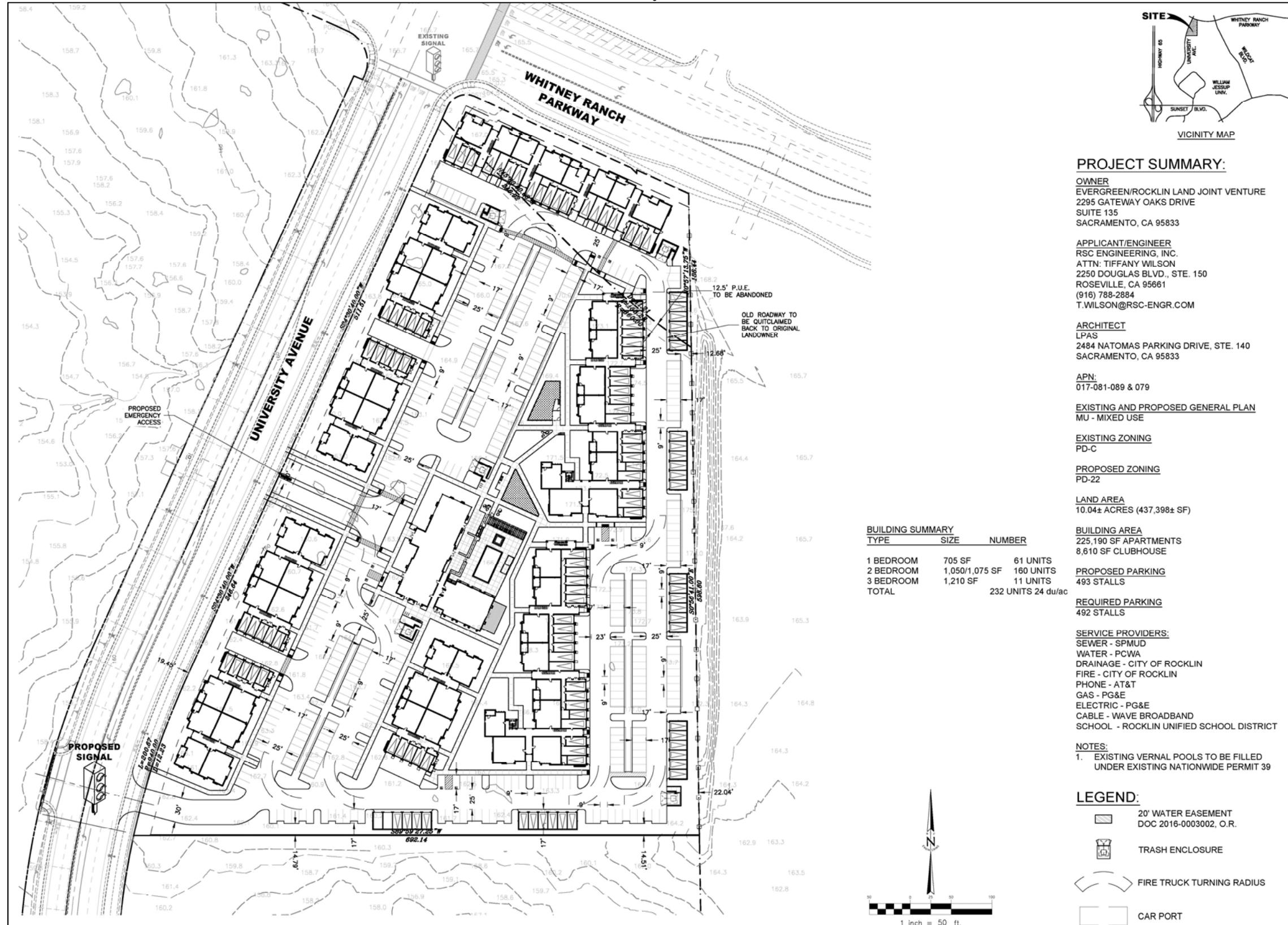
Because the proposed project would include residential uses, the project would be considered to introduce sensitive receptors to the area. The nearest existing sensitive receptors would be the existing residences to the north of the site.

Construction of the proposed project is anticipated to commence in June 2018 and the project is anticipated to be fully operational by 2019.

Figure 1
Project Location Map



Figure 2
Preliminary Site Plan



Sources

1. BREEZE Software, A Division of Trinity Consultants in collaboration with South Coast Air Quality Management District and the California Air Districts. *California Emissions Estimator Model User's Guide Version 2016.3.1.* September 2016.
2. California Air Resources Board. *Air Quality and Land Use Handbook: A Community Health Perspective.* April 2005.
3. California Air Resources Board. *Ambient Air Quality Standards.* Available at: <https://www.arb.ca.gov/research/aaqs/aaqs.htm>. Accessed March 2017.
4. California Air Resources Board. *Climate Change Scoping Plan.* December 2008.
5. California Air Resources Board. *Final Supplement to the AB 32 Scoping Plan Functional Equivalent Document.* August 19, 2011.
6. California Air Resources Board. *First Update to the AB 32 Scoping Plan.* May 27, 2014.
7. California Air Pollution Control Officers Association. *Quantifying Greenhouse Gas Mitigation Measures.* August 2010.
8. California Building Standards Commission. *2016 California Green Building Standards Code (CALGreen), California Code of Regulations Title 24, Part 11.* June 2015.
9. California Public Utilities Commission. *California Renewables Portfolio Standard (RPS).* Accessible at <http://www.cpuc.ca.gov/renewables/>. Accessed March 2017.
10. City of Rocklin. *Demographics.* Available at: <http://www.rocklin.ca.us/demographics>. Accessed March 2017.
11. City of Rocklin. *Ordinance No. 1060.* Effective January 12, 2017.
12. Fehr & Peers. *Final Transportation Impact Analysis for the Northwest Rocklin Area General Development Plan.* May 5, 2016.
13. Placer County Air Pollution Control District. *CEQA Air Quality Handbook.* October 11, 2012.
14. Placer County Air Pollution Control District. *Placer County Air Pollution Control District Policy, Review of Land Use Projects Under CEQA.* October 13, 2016.
15. Sacramento Metropolitan Air Quality Management District. *Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan (2013 SIP Revisions).* September 26, 2013.

III. AIR QUALITY. <i>Would the project:</i>	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	✖	<input type="checkbox"/>
b. Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>	<input type="checkbox"/>	✖	<input type="checkbox"/>
c. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input type="checkbox"/>	✖	<input type="checkbox"/>
d. Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	✖	<input type="checkbox"/>
e. Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	✖	<input type="checkbox"/>

Discussion

- a,b. The City of Rocklin is located within the boundaries of the Sacramento Valley Air Basin (SVAB) and under the jurisdiction of the Placer County Air Pollution Control District (PCAPCD). The federal Clean Air Act (CAA) and the California Clean Air Act (CCAA) require that federal and State ambient air quality standards (AAQS) be established, respectively, for six common air pollutants, known as criteria pollutants. The criteria pollutants include particulate matter (PM), ground-level ozone, carbon monoxide (CO), sulfur oxides, nitrogen oxides (NOx), and lead. At the federal level, the SVAB area is designated as nonattainment for the 8-hour ozone and the 24-hour particulate matter 2.5 microns in diameter (PM_{2.5}) AAQS, and attainment or unclassified for all other federal criteria pollutant AAQS. At the State level, the SVAB area is designated as nonattainment for the 1-hour ozone, 8-hour ozone, particulate matter 10 microns in diameter (PM₁₀) AAQS, and attainment or unclassified for all other State AAQS.

The CAA requires each state to prepare an air quality control plan referred to as a State Implementation Plan (SIP). The SIPs are modified periodically to reflect the latest emissions inventories, planning documents, and rules and regulations of the air basins, as reported by their jurisdictional agencies. Due to the nonattainment designations, PCAPCD, along with the other air districts in the SVAB region, periodically prepares and updates air quality plans that provide emission reduction strategies to achieve attainment of the NAAQS, including control strategies to reduce air pollutant emissions through regulations, incentive programs, public education, and partnerships with other agencies.

The current applicable air quality plan for the proposed project area is the *Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan* (2013 Ozone Attainment Plan), adopted September 26, 2013. The U.S. Environmental Protection Agency (USEPA) approved the 2013 Ozone Attainment Plan on January 9, 2015. The 2013

Ozone Attainment Plan demonstrates how existing and new control strategies would provide the necessary future emission reductions to meet the CAA requirements, including the NAAQS. It should be noted that the USEPA strengthened the primary 8-hour ozone NAAQS, as well as the secondary 8-hour ozone NAAQS, making the secondary standard identical to the primary standard. The SVAB remains classified as a severe nonattainment area with an attainment deadline of 2027. On October 26, 2015, the USEPA released a final implementation rule for the revised NAAQS for ozone to address the requirements for reasonable further progress, modeling and attainment demonstrations, and reasonably available control measures (RACM) and reasonably available control technology (RACT). With the publication of the new NAAQS ozone rules, areas in nonattainment must update their ozone attainment plans and submit new plans by 2020/2021.

General conformity requirements of the regional air quality plan include whether a project would cause or contribute to new violations of any NAAQS, increase the frequency or severity of an existing violation of any NAAQS, or delay timely attainment of any NAAQS. In order to evaluate ozone and other criteria air pollutant emissions and support attainment goals for those pollutants that the area is designated nonattainment, the PCAPCD adopts recommended thresholds of significance for emissions of PM₁₀, and ozone precursors – reactive organic gases (ROG) and oxides of nitrogen (NOx). On October 13, 2016, the PCAPCD adopted updated thresholds of significance for the aforementioned pollutants.

The thresholds of significance, expressed in pounds per day (lbs/day), listed in Table 1 are the PCAPCD's updated thresholds of significance for use in the evaluation of air quality impacts associated with proposed development projects. The City of Rocklin, as lead agency, uses the PCAPCD's recommended thresholds of significance for CEQA evaluation purposes. Thus, if the proposed project's emissions exceed the pollutant thresholds presented in Table 1, the project could have a significant effect on air quality, the attainment of federal and State AAQS, and could conflict with or obstruct implementation of the applicable air quality plan.

Table 1 PCAPCD Thresholds of Significance		
Pollutant	Construction Threshold (lbs/day)	Operational Threshold (lbs/day)
ROG	82	55
NOx	82	55
PM ₁₀	82	82

Source: Placer County Air Pollution Control District. Placer County Air Pollution Control District Policy. Review of Land Use Projects Under CEQA. October 13, 2016.

Implementation of the proposed project would contribute emissions in the area during both construction and operation. The proposed project's short-term construction-related and long-term operational emissions were estimated using the California Emissions Estimator Model (CalEEMod) software, version 2016.3.1 – a statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify air quality emissions, including GHG emissions, from land use projects. The model applies inherent default values for various land uses, including trip

generation rates based on the Institute of Transportation Engineers (ITE) Manual, vehicle mix, trip length, average speed, etc. However, where project-specific data are available, such data should be input into the model. As such, the proposed project's modeling assumed the following:

- Construction was assumed to commence in June 2018 and would occur over an approximately 16-month period;
- Approximately 10 acres would be disturbed during grading of the site;
- Only two fireplaces would be included in the proposed project (one in the clubhouse and one in the exterior lounge area near the pool), which would both use natural gas;
- The proposed project would provide an internal pedestrian network connecting the proposed buildings, as well as a connection to the existing bike lane along University Avenue; and
- The proposed project would comply with the 2016 California Building Energy Efficiency Standards Code.

All CalEEMod results are included as an appendix to this document. The proposed project's estimated emissions associated with construction and operations are presented and discussed in further detail below.

Construction Emissions

During construction of the project, various types of equipment and vehicles would temporarily operate on the project site. Construction exhaust emissions would be generated from construction equipment, vegetation clearing and earth movement activities, construction worker commutes, and construction material hauling for the entire construction period. The aforementioned activities would involve the use of diesel- and gasoline-powered equipment that would generate emissions of criteria pollutants. Project construction activities also represent sources of fugitive dust, which includes particulate matter (PM) emissions. As construction of the proposed project would generate air pollutant emissions intermittently within the site, and the vicinity of the site, until all construction has been completed, construction is a potential concern because the proposed project is in a non-attainment area for ozone, PM₁₀, and PM_{2.5}.

All projects under the jurisdiction of PCAPCD are required to comply with all applicable PCAPCD rules and regulations. Accordingly, the proposed project would be required to comply with all applicable PCAPCD rules and regulations for construction, which would be noted on City-approved construction plans. The applicable rules and regulations for construction would include, but would not be limited to, the following:

- Rule 202 related to visible emissions;
- Rule 217 related to asphalt paving materials;
- Rule 218 related to architectural coatings;
- Rule 228 related to fugitive dust; and
- Rule 501 related to General Permit Requirements.

According to the CalEEMod results, which inherently accounts for applicable PCAPCD rules and regulations, the proposed project would result in maximum unmitigated construction emissions as shown in Table 2. Assumptions used for the modeling are presented above.

Table 2 Maximum Unmitigated Construction-Related Emissions		
Pollutant	Project Emissions (lbs/day)	PCAPCD Thresholds of Significance (lbs/day)
ROG	12.97	82.0
NO _x	59.59	82.0
PM ₁₀	20.79	82.0

Source: CalEEMod, March 2017 (see appendix).

As shown in the table, the proposed project's maximum unmitigated construction-related emissions would be well below the applicable thresholds of significance. Therefore, construction activities associated with development of the proposed project would not substantially contribute to the PCAPCD's nonattainment status for ozone or PM. Accordingly, construction of the proposed project would not violate any AAQS or contribute to an existing or projected air quality violation or conflict with or obstruct implementation of the applicable air quality plan, and a less-than-significant impact would occur associated with construction.

Operational Emissions

Operational emissions of ROG, NO_x, and PM₁₀ would be generated by the proposed project from area, energy, and mobile sources. Area sources include architectural coating vapors, landscape maintenance equipment exhaust, and use of consumer products (e.g., deodorants, cleaning products, spray paint, etc.). Energy sources include electricity and natural gas consumption. Mobile-source emissions would result from the future residents' vehicle trips to and from the project site.

As stated above, the proposed project would be required to comply with all applicable PCAPCD rules and regulations, including the following related to operations:

- Rule 225 related to wood-burning appliances; and
- Rule 246 related to water heaters.

According to the CalEEMod results, the proposed project would result in maximum unmitigated operational emissions as shown in Table 3. Assumptions used for the modeling are presented above.

Table 3 Unmitigated Operational Emissions		
Pollutant	Project Emissions (lbs/day)	PCAPCD Thresholds of Significance (lbs/day)
ROG	16.38	55
NOx	26.05	55
PM ₁₀	18.84	82

Source: CalEEMod, March 2017 (see appendix).

As shown in the table, the proposed project's operational emissions would be well below the applicable thresholds of significance. Therefore, the proposed project would not substantially contribute to the PCAPCD's nonattainment status for ozone or PM during operations. Accordingly, operation of the proposed project would not violate any AAQS or contribute to an existing or projected air quality violation or conflict with or obstruct implementation of the applicable air quality plan, and a less-than-significant impact would occur associated with operations.

Conclusion

The proposed project's construction and operational emissions would not exceed the applicable thresholds of significance. In addition, the project would be required to comply with all applicable PCAPCD rules and regulations. Because the project would not exceed the thresholds of significance, the proposed project would not substantially contribute to the region's nonattainment status of ozone or PM₁₀. Therefore, implementation of the proposed project would not violate an air quality standard, contribute to an existing or projected air quality violation, and thus would not interfere with any applicable air quality plans, such as the 2013 Ozone Attainment Plan. As a result, a **less-than-significant** impact related to air quality would occur.

- c. A cumulative impact analysis considers a project over time in conjunction with other past, present, and reasonably foreseeable future projects whose impacts might compound those of the project being assessed. Due to the dispersive nature and regional sourcing of air pollutants, air pollution is already largely a cumulative impact. The nonattainment status of regional pollutants, including ozone and PM, is a result of past and present development, and, thus, cumulative impacts related to these pollutants could be considered cumulatively significant.

To improve air quality and attain the health-based standards, reductions in emissions are necessary within nonattainment areas. The project is part of a pattern of urbanization occurring in the greater Sacramento ozone nonattainment area. The growth and combined vehicle usage, and business activity within the nonattainment area from the project, in combination with other past, present, and reasonably foreseeable projects within Rocklin and surrounding areas, could either delay attainment of the standards or require the adoption of additional controls on existing and future air pollution sources to offset emission increases. Thus, the project could cumulatively contribute to regional air quality health effects through emissions of criteria air pollutants.

The PCAPCD recommends using the region's existing attainment plans as a basis for analysis of cumulative emissions. If a project would interfere with an adopted attainment plan, the project would inhibit the future attainment of AAQS, and thus result in a cumulative impact. As discussed above, the PCAPCD's recommended thresholds of significance for ozone precursors and PM₁₀ are based on attainment plans for the region. Thus, the PCAPCD concluded that if a project's ozone precursor and PM₁₀ emissions would be less than PCAPCD project-level thresholds, the project would not be expected to conflict with any relevant attainment plans, and would not result in a cumulatively considerable contribution to a significant cumulative impact. As a result, the PCACPD established operational phase cumulative-level emissions thresholds identical to the operational thresholds identified above, in Table 1.

As shown in Table 3 above, the proposed project would not result in emissions in exceedance of the applicable thresholds of significance for ozone precursors or PM₁₀. Accordingly, impacts related to the cumulative emissions of criteria pollutants for which PCAPCD is in non-attainment would be considered ***less than significant***.

- d. Some land uses are considered more sensitive to air pollution than others, due to the types of population groups or activities involved. Heightened sensitivity may be caused by health problems, proximity to the emissions source, and/or duration of exposure to air pollutants. Children, pregnant women, the elderly, and those with existing health problems are especially vulnerable to the effects of air pollution. Accordingly, land uses that are typically considered to be sensitive receptors include residences, schools, childcare centers, playgrounds, retirement homes, convalescent homes, hospitals, and medical clinics. The proposed project would involve the creation of new housing and, thus, would be considered a sensitive receptor. The nearest existing sensitive receptors would be the existing residences to the north of the site.

The major pollutant concentrations of concern are localized CO emissions and toxic air contaminant (TAC) emissions, which are addressed in further detail below.

Localized CO Emissions

Localized concentrations of CO are related to the levels of traffic and congestion along streets and at intersections. Implementation of the proposed project would increase traffic volumes on streets near the project site; therefore, the project would be expected to increase local CO concentrations. High levels of localized CO concentrations are only expected where background levels are high, and traffic volumes and congestion levels are high. The statewide CO Protocol document identifies signalized intersections operating at Level of Service (LOS) E or F, or projects that would result in the worsening of signalized intersections to LOS E or F, as having the potential to result in localized CO concentrations in excess of the State or federal AAQS, as a result of large numbers of cars idling at stop lights.

Consistent with the State CO Protocol, the PCAPCD recommends further analysis for localized CO concentrations if the project would cause a signalized intersection to be

degraded from an acceptable LOS (i.e., LOS A, B, C, or D) to an unacceptable LOS (i.e., LOS E or F), or substantially worsen an already existing unacceptable peak-hour LOS at an intersection, as determined by a traffic study. Substantially worsen is defined by PCAPCD as an increase in delay by 10 seconds or more.

The transportation and circulation impacts associated with buildout of the project site have already been analyzed and addressed by the City as part of the *Final Transportation Impact Analysis for the Northwest Rocklin Area General Development Plan*, which underwent environmental review pursuant to CEQA and was approved by the City (Resolution No. 2016-262). Although the proposed project would modify the land uses assumed for the site by the City and included in the previous analysis, the overall vehicle trips would fall within what has been anticipated for the site. Accordingly, the proposed project would not result in any increase in vehicle emissions, or exacerbation of any effects associated with such, from what has already been assumed to occur associated with buildout of the site. Therefore, the proposed project would not cause an exacerbation of any impacts previously identified related to localized CO concentrations associated with buildout of the project site. As a result, the proposed project would not result in the exposure of sensitive receptors to substantial localized concentrations of CO beyond what has already been anticipated by the City.

TAC Emissions

Another category of environmental concern is TACs. The *CARB's Air Quality and Land Use Handbook: A Community Health Perspective* (Handbook) provides recommended setback distances for sensitive land uses from major sources of TACs, including, but not limited to, freeways and high traffic roads, distribution centers, and rail yards. The CARB has identified diesel particulate matter (DPM) from diesel-fueled engines as a TAC; thus, high volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic are identified as having the highest associated health risks from DPM. Health risks from TACs are a function of both the concentration of emissions and the duration of exposure. Health-related risks associated with DPM in particular are primarily associated with long-term exposure and associated risk of contracting cancer.

The proposed project would not involve any land uses or operations that would be considered major sources of TACs, including DPM. As such, the proposed project would not generate any substantial pollutant concentrations during operations. Construction-related activities could result in the generation of TACs, specifically DPM, from on-road haul trucks and off-road equipment exhaust emissions. However, construction is temporary and occurs over a relatively short duration in comparison to the operational lifetime of the proposed project, particularly so for the proposed project, as the construction activities associated with the proposed project would occur over an approximately 16-month period. All construction equipment and operation thereof would be regulated per the State's In-Use Off-Road Diesel Vehicle Regulation. Project construction would also be required to comply with all applicable PCAPCD rules and regulations, particularly associated with permitting of air pollutant sources. In addition, construction equipment would operate intermittently throughout the course of a day and only portions of the site would be

disturbed at a time. Considering the intermittent nature of construction equipment, the duration of construction activities, and the typical long-term exposure periods typically associated with health risks, the likelihood that any one sensitive receptor would be exposed to high concentrations of DPM for any extended period of time due to project construction would be low. Therefore, construction of the proposed project would not be expected to expose any nearby sensitive receptors to substantial concentrations of DPM or other TAC.

Conclusion

Based on the above discussion, the proposed project would not expose sensitive receptors to substantial pollutant concentrations. Therefore, impacts would be considered ***less than significant***.

- e. Odors are generally regarded as an annoyance rather than a health hazard. Due to the subjective nature of odor impacts, the number of variables that can influence the potential for an odor impact, and the variety of odor sources, quantitative methodologies to determine the presence of a significant odor impact do not exist. Certain land uses such as wastewater treatment facilities, landfills, confined animal facilities, composting operations, food manufacturing plants, refineries, and chemical plants have the potential to generate considerable odors. The proposed project would not introduce any such land uses. Residential land uses are not typically associated with the creation of objectionable odors.

Although less common, diesel fumes associated with substantial diesel-fueled equipment and heavy-duty trucks, such as from construction activities or operations of emergency generators, could be found to be objectionable. However, as addressed above, construction is temporary and construction equipment would operate intermittently throughout the course of a day and would likely only occur over portions of the improvement area at a time. All construction equipment and operation thereof would be regulated per the statewide In-Use Off-Road Diesel Vehicle Regulation. Construction equipment would also be required to comply with applicable PCAPCD rules and regulations, particularly associated with permitting of air pollutant sources. The aforementioned regulations would help to minimize air pollutant emissions as well as any associated odors. Considering the short-term nature of construction activities and the regulated and intermittent nature of the operation of construction equipment, construction of the proposed project would not be expected to create objectionable odors affecting a substantial number of people.

For the aforementioned reasons, construction and operation of the proposed project would not create objectionable odors affecting a substantial number of people, and impacts would be ***less than significant***.

VII. GREENHOUSE GAS EMISSIONS. <i>Would the project:</i>	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gasses?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Discussion

- a,b. Emissions of GHG contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on Earth. An individual project's GHG emissions are at a micro-scale level relative to global emissions and effects to global climate change; however, an individual project could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact. As such, impacts related to emissions of GHG are inherently considered cumulative impacts.

In recognition of the global scale of climate change, California has enacted several pieces of legislations in an attempt to curb GHG emissions. Specifically, Assembly Bill (AB) 32, and more recently Senate Bill (SB) 32, have established statewide GHG emissions reduction targets. Accordingly, the CARB has prepared the Climate Change Scoping Plan for California (Scoping Plan), approved in 2008 and updated in 2014, which provides the outline for actions to reduce California's GHG emissions and achieve the emissions reduction targets required by AB 32. In concert with statewide efforts to reduce GHG emissions, air districts, counties, and local jurisdictions throughout the State have implemented their own policies and plans to achieve emissions reductions in line with the Scoping Plan and emissions reduction targets, including AB 32 and SB 32.

On October 13, 2016, the PCAPCD adopted GHG emissions thresholds to help the district attain the GHG reduction goals established by AB 32 and SB 32. The common unit of measurement for GHG, used by PCAPCD, is expressed in terms of annual metric tons of CO₂ equivalents (MTCO₂e/yr). The updated thresholds begin with a screening emission level of 1,100 MTCO₂e/yr. Any project below the 1,100 MTCO₂e/yr threshold is judged by the PCAPCD as having a less-than-significant impact on GHG emissions, and, thus, would not conflict with any State or regional GHG emissions reduction goals. Projects that would result in emissions above the 1,100 MTCO₂e/yr threshold would not necessarily result in substantial impacts, if certain efficiency thresholds are met. The efficiency thresholds, which are calculated on a per capita or square-foot basis, are presented in Table 4. The PCAPCD has also established a Bright Line Cap of 10,000 MTCO₂e/yr, which is the maximum GHG emissions limit for any type of project.

Table 4 PCAPCD Operational Thresholds of Significance			
Efficiency Thresholds			
Residential (MTCO_{2e}/yr/capita)		Non-Residential (MTCO_{2e}/yr/1,000 sf)	
Urban	Rural	Urban	Rural
4.5	5.5	26.5	27.3

Source: Placer County Air Pollution Control District. Placer County Air Pollution Control District Policy. Review of Land Use Projects Under CEQA. October 13, 2016.

Projects that fall below the 1,100 MTCO_{2e}/yr threshold or meet the efficiency thresholds are considered to be in keeping with statewide GHG emissions reduction targets, which would ensure that the proposed project would not inhibit the State's achievement of GHG emissions reductions. Thus, projects that result in emissions below the 1,100 MTCO_{2e}/yr threshold or the efficiency thresholds presented in Table 4 are considered to result in less-than-significant impacts related to GHG emissions and would not conflict with any State or regional GHG emissions reduction goals.

Implementation of the proposed project would contribute to cumulative increases of GHG emissions during construction and operation. Estimated GHG emissions attributable to future development would be primarily associated with increases of carbon dioxide (CO₂) and, to a lesser extent, other GHG pollutants, such as methane (CH₄) and nitrous oxide (N₂O), associated with area sources, mobile sources or vehicles, utilities (electricity and natural gas), water usage, wastewater generation, and the generation of solid waste. The primary source of GHG emissions for the project would be mobile source emissions from vehicles traveling to and from the project site.

The proposed project's short-term construction and long-term operational GHG emissions are presented below.

Short-Term Construction GHG Emissions

Construction-related GHG emissions are a one-time release and are, therefore, not typically expected to generate a significant contribution to global climate change, as global climate change is inherently a cumulative effect that occurs over a long period of time and is quantified on a yearly basis. However, the proposed project's construction GHG emissions have been estimated and compared to the PCAPCD's operational thresholds of significance for informational purposes. The proposed project's maximum annual construction-related GHG emissions are presented in Table 5. The construction modeling assumptions are described in the Air Quality section above.

Table 5 Maximum Unmitigated Project Construction GHG Emissions		
	Construction GHG Emissions (MTCO_{2e}/yr)	Threshold of Significance (MTCO_{2e}/yr)
Maximum Annual Construction GHG Emissions	483.77	1,100

Source: CalEEMod, March 2017 (see appendix).

As shown in Table 5 above, the proposed project's maximum annual unmitigated construction GHG emissions would be below the applicable 1,100 MTCO_{2e}/yr threshold of significance. Accordingly, the proposed project would not be expected to have a significant impact related to GHG emissions during construction.

Long-Term Operational GHG Emissions

The proposed project's estimated unmitigated operational GHG emissions are presented in Table 6. It should be noted that the CO₂ intensity factor was adjusted for the modeling conducted for project operations to reflect PG&E's progress towards meeting the State's Renewable Energy Portfolio Standards. All other operational modeling assumptions are described in the Air Quality section above.

Table 6 Unmitigated Project Operational GHG Emissions	
Emission Source	Annual GHG Emissions (MTCO_{2e}/yr)
Area	56.84
Energy	357.68
Mobile	2,082.70
Solid Waste	53.67
Water	42.12
TOTAL ANNUAL GHG EMISSIONS	2,593.01
Threshold of Significance	1,100.00

Source: CalEEMod, March 2017 (see appendix).

As shown in the table, the proposed project would result in operational GHG emissions in excess of the 1,100 MTCO_{2e} threshold. Accordingly, further analysis in comparison to the applicable efficiency threshold is required. As presented in Table 4, the PCAPCD efficiency thresholds are broken down into residential or non-residential project types, and further broken down into urban or rural settings. Although the proposed project site is located in the City of Rocklin near other existing development, the immediately surrounding area of the project is predominantly made up of currently vacant and undeveloped land. Accordingly, for conservative analysis purposes, the proposed project's operational GHG emissions per capita are compared to the efficiency threshold for a rural residential project type of 5.5 MTCO_{2e}/yr/capita.

According to City of Rocklin demographics, the City has an average household size (based on total single-family and multi-family households) of 2.76 persons per household. Based on such, the proposed project could generate a population of approximately 641 people. Using the aforementioned data, the proposed project's operational GHG emissions per capita have been estimated and compared to the efficiency threshold, as presented in Table 7.

As shown in the table, the proposed project would result in annual operational GHG emissions per capita below the applicable efficiency threshold. Therefore, the proposed project would be considered to result in a less-than-significant impact related to operational

GHG emissions and would not conflict with any State or regional GHG emissions reduction goals.

Table 7 Unmitigated Project Operational GHG Emissions Per Capita		
	Annual GHG Per Capita Emissions (MTCO₂e/yr/capita)	Threshold of Significance (MTCO₂e/yr/capita)
Operational GHG Emissions Per Capita	4.05	5.5
<i>Source: CalEEMod, March 2017 (see appendix).</i>		

Conclusion

Based on the above, the proposed project would not be considered to generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, or conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. Therefore, impacts related to GHG emission and global climate change would not be cumulatively considerable and would be considered *less than significant*.

APPENDIX

CALEEMOD MODELING RESULTS

Placer Creek Apartments - Placer County APCD Air District, Summer

Placer Creek Apartments
Placer County APCD Air District, Summer

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	232.00	Dwelling Unit	14.50	232,000.00	664

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	410.05	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted per PG&E's anticipated progress towards statewide RPS reduction goals

Land Use - based on info from applicant

Construction Phase - based on info from applicant

Grading - project would disturb approximately 10 acres

Architectural Coating -

Woodstoves - according to info from applicant

Mobile Land Use Mitigation -

Energy Mitigation -

Placer Creek Apartments - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	325.00
tblConstructionPhase	NumDays	300.00	325.00
tblConstructionPhase	NumDays	30.00	21.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	10.00	3.00
tblConstructionPhase	PhaseEndDate	1/8/2021	10/25/2019
tblConstructionPhase	PhaseEndDate	10/3/2019	10/11/2019
tblConstructionPhase	PhaseEndDate	10/11/2019	7/13/2018
tblConstructionPhase	PhaseStartDate	10/12/2019	7/28/2018
tblConstructionPhase	PhaseStartDate	7/6/2018	7/14/2018
tblConstructionPhase	PhaseStartDate	10/4/2019	7/6/2018
tblFireplaces	NumberGas	127.60	2.00
tblFireplaces	NumberNoFireplace	23.20	230.00
tblFireplaces	NumberWood	81.20	0.00
tblGrading	AcresOfGrading	52.50	10.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	410.05
tblProjectCharacteristics	OperationalYear	2018	2019

2.0 Emissions Summary

Placer Creek Apartments - Placer County APCD Air District, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	lb/day										lb/day						
2018	12.9696	59.5767	35.8149	0.0638	18.2141	2.6348	20.7920	9.9699	2.4240	12.3416	0.0000	6,418.773	6,418.773	1.9492	0.0000	6,467.5019	
2019	12.5172	26.5626	26.1312	0.0543	1.8123	1.4486	3.2609	0.4845	1.3698	1.8543	0.0000	5,341.909	5,341.909	0.7392	0.0000	5,360.3906	
Maximum	12.9696	59.5767	35.8149	0.0638	18.2141	2.6348	20.7920	9.9699	2.4240	12.3416	0.0000	6,418.773	6,418.773	1.9492	0.0000	6,467.5019	

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						
2018	12.9696	59.5767	35.8149	0.0638	18.2141	2.6348	20.7920	9.9699	2.4240	12.3416	0.0000	6,418.773	6,418.773	1.9492	0.0000	6,467.5019	
2019	12.5172	26.5626	26.1312	0.0543	1.8123	1.4486	3.2609	0.4845	1.3698	1.8543	0.0000	5,341.909	5,341.909	0.7392	0.0000	5,360.3906	
Maximum	12.9696	59.5767	35.8149	0.0638	18.2141	2.6348	20.7920	9.9699	2.4240	12.3416	0.0000	6,418.773	6,418.773	1.9492	0.0000	6,467.5019	

Placer Creek Apartments - Placer County APCD Air District, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Area	12.1189	1.1102	71.6124	0.1721		8.6502	8.6502		8.6502	8.6502	1,260.817 9	76.8171 0	1,337.635 0	5.9287	7.8000e-004	1,486.084 1	
Energy	0.1115	0.9529	0.4055	6.0800e-003		0.0771	0.0771		0.0771	0.0771	1,216.504 8	1,216.504 8	0.0233	0.0223	1,223.733 9		
Mobile	4.2050	23.2869	44.5787	0.1468	10.1543	0.1768	10.3312	2.7210	0.1673	2.8883	14,851.07 76	14,851.07 76	0.6076			14,866.26 80	
Total	16.4354	25.3500	116.5966	0.3250	10.1543	8.9041	19.0584	2.7210	8.8945	11.6156	1,260.817 9	16,144.39 94	17,405.21 74	6.5597	0.0231	17,576.08 60	

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	12.1189	1.1102	71.6124	0.1721		8.6502	8.6502		8.6502	8.6502	1,260.817 9	76.8171 0	1,337.635 0	5.9287	7.8000e-004	1,486.084 1	
Energy	0.0855	0.7302	0.3107	4.6600e-003		0.0590	0.0590		0.0590	0.0590	932.1437	932.1437	0.0179	0.0171	937.6830		
Mobile	4.1750	23.0350	43.8538	0.1442	9.9513	0.1736	10.1249	2.6666	0.1642	2.8309	14,582.52 05	14,582.52 05	0.6003			14,597.52 68	
Total	16.3794	24.8753	115.7769	0.3209	9.9513	8.8829	18.8341	2.6666	8.8735	11.5401	1,260.817 9	15,591.48 13	16,852.29 92	6.5468	0.0179	17,021.29 39	

Placer Creek Apartments - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.34	1.87	0.70	1.26	2.00	0.24	1.18	2.00	0.24	0.65	0.00	3.42	3.18	0.20	22.57	3.16

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/4/2018	6/6/2018	5	3	
2	Grading	Grading	6/7/2018	7/5/2018	5	21	
3	Building Construction	Building Construction	7/14/2018	10/11/2019	5	325	
4	Paving	Paving	7/6/2018	7/13/2018	5	6	
5	Architectural Coating	Architectural Coating	7/28/2018	10/25/2019	5	325	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 469,800; Residential Outdoor: 156,600; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0
(Architectural Coating – sqft)

OffRoad Equipment

Placer Creek Apartments - Placer County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	167.00	25.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	33.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Placer Creek Apartments - Placer County APCD Air District, Summer

3.2 Site Preparation - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day												lb/day				
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000	
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	3,831.623 9	3,831.623 9	1.1928			3,861.444 8	
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	3,831.623 9	3,831.623 9	1.1928			3,861.444 8	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day												lb/day				
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0842	0.0494	0.6530	1.5800e-003	0.1479	9.7000e-004	0.1488	0.0392	9.0000e-004	0.0401			156.9105	156.9105	4.6500e-003	157.0267	
Total	0.0842	0.0494	0.6530	1.5800e-003	0.1479	9.7000e-004	0.1488	0.0392	9.0000e-004	0.0401			156.9105	156.9105	4.6500e-003	157.0267	

Placer Creek Apartments - Placer County APCD Air District, Summer

3.2 Site Preparation - 2018**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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000	
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.623 9	3,831.623 9	1.1928		3,861.444 8	
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.623 9	3,831.623 9	1.1928		3,861.444 8	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0842	0.0494	0.6530	1.5800e-003	0.1479	9.7000e-004	0.1488	0.0392	9.0000e-004	0.0401			156.9105	156.9105	4.6500e-003	157.0267	
Total	0.0842	0.0494	0.6530	1.5800e-003	0.1479	9.7000e-004	0.1488	0.0392	9.0000e-004	0.0401			156.9105	156.9105	4.6500e-003	157.0267	

Placer Creek Apartments - Placer County APCD Air District, Summer

3.3 Grading - 2018**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					6.5271	0.0000	6.5271	3.3648	0.0000	3.3648			0.0000			0.0000	
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.428 4	6,244.428 4	1.9440		6,293.027 8	
Total	5.0901	59.5218	35.0894	0.0620	6.5271	2.6337	9.1608	3.3648	2.4230	5.7878		6,244.428 4	6,244.428 4	1.9440		6,293.027 8	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Worker	0.0935	0.0549	0.7255	1.7500e-003	0.1643	1.0800e-003	0.1654	0.0436	9.9000e-004	0.0446		174.3450	174.3450	5.1700e-003		174.4741	
Total	0.0935	0.0549	0.7255	1.7500e-003	0.1643	1.0800e-003	0.1654	0.0436	9.9000e-004	0.0446		174.3450	174.3450	5.1700e-003		174.4741	

Placer Creek Apartments - Placer County APCD Air District, Summer

3.3 Grading - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					6.5271	0.0000	6.5271	3.3648	0.0000	3.3648			0.0000			0.0000	
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.428 4	6,244.428 4	1.9440		6,293.027 8	
Total	5.0901	59.5218	35.0894	0.0620	6.5271	2.6337	9.1608	3.3648	2.4230	5.7878	0.0000	6,244.428 4	6,244.428 4	1.9440		6,293.027 8	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0935	0.0549	0.7255	1.7500e-003	0.1643	1.0800e-003	0.1654	0.0436	9.9000e-004	0.0446			174.3450	174.3450	5.1700e-003	174.4741	
Total	0.0935	0.0549	0.7255	1.7500e-003	0.1643	1.0800e-003	0.1654	0.0436	9.9000e-004	0.0446			174.3450	174.3450	5.1700e-003	174.4741	

Placer Creek Apartments - Placer County APCD Air District, Summer

3.4 Building Construction - 2018**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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	2,620.935 1	2,620.935 1	0.6421			2,636.988 3	
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	2,620.935 1	2,620.935 1	0.6421			2,636.988 3	

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	0.0000	
Vendor	0.1229	3.3526	0.6832	7.5000e-003	0.1693	0.0238	0.1931	0.0488	0.0228	0.0715	784.1447	784.1447	0.0403			785.1512	
Worker	0.7808	0.4582	6.0582	0.0146	1.3719	9.0000e-003	1.3809	0.3639	8.3000e-003	0.3722	1,455.780 5	1,455.780 5	0.0431			1,456.858 8	
Total	0.9037	3.8108	6.7414	0.0221	1.5412	0.0328	1.5740	0.4126	0.0311	0.4437	2,239.925 2	2,239.925 2	0.0834			2,242.010 0	

Placer Creek Apartments - Placer County APCD Air District, Summer

3.4 Building Construction - 2018**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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935	2,620.935	0.6421		2,636.988	
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935	2,620.935	0.6421		2,636.988	

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	0.0000	
Vendor	0.1229	3.3526	0.6832	7.5000e-003	0.1693	0.0238	0.1931	0.0488	0.0228	0.0715	784.1447	784.1447	0.0403			785.1512	
Worker	0.7808	0.4582	6.0582	0.0146	1.3719	9.0000e-003	1.3809	0.3639	8.3000e-003	0.3722	1,455.780	1,455.780	0.0431			1,456.858	
Total	0.9037	3.8108	6.7414	0.0221	1.5412	0.0328	1.5740	0.4126	0.0311	0.4437	2,239.925	2,239.925	0.0834			2,242.010	

Placer Creek Apartments - Placer County APCD Air District, Summer

3.4 Building Construction - 2019**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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	2,591.580 2	2,591.580 2	0.6313		2,607.363 5		
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	2,591.580 2	2,591.580 2	0.6313		2,607.363 5		

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	0.0000	
Vendor	0.1083	3.1661	0.6082	7.4300e-003	0.1693	0.0193	0.1886	0.0488	0.0185	0.0672	777.5533	777.5533	0.0382		778.5078		
Worker	0.7079	0.4027	5.4425	0.0142	1.3719	8.9000e-003	1.3808	0.3639	8.2100e-003	0.3721	1,412.258 8	1,412.258 8	0.0384		1,413.218 2		
Total	0.8162	3.5689	6.0507	0.0216	1.5412	0.0282	1.5694	0.4126	0.0267	0.4393	2,189.812 2	2,189.812 2	0.0766		2,191.726 1		

Placer Creek Apartments - Placer County APCD Air District, Summer

3.4 Building Construction - 2019**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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5	
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5	

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	0.0000	
Vendor	0.1083	3.1661	0.6082	7.4300e-003	0.1693	0.0193	0.1886	0.0488	0.0185	0.0672	777.5533	777.5533	0.0382			778.5078	
Worker	0.7079	0.4027	5.4425	0.0142	1.3719	8.9000e-003	1.3808	0.3639	8.2100e-003	0.3721	1,412.258 8	1,412.258 8	0.0384			1,413.218 2	
Total	0.8162	3.5689	6.0507	0.0216	1.5412	0.0282	1.5694	0.4126	0.0267	0.4393	2,189.812 2	2,189.812 2	0.0766			2,191.726 1	

Placer Creek Apartments - Placer County APCD Air District, Summer

3.5 Paving - 2018

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	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	2,294.088	7	2,294.088	7	0.7142		2,311.943	2
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000	
Total	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	2,294.088	7	2,294.088	7	0.7142		2,311.943	2

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	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	0.0701	0.0412	0.5442	1.3100e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334	130.7587	130.7587	3.8700e-003	130.8556			
Total	0.0701	0.0412	0.5442	1.3100e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334	130.7587	130.7587	3.8700e-003			130.8556	

Placer Creek Apartments - Placer County APCD Air District, Summer

3.5 Paving - 2018

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	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.088	2,294.088	0.7142		2,311.943	
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	
Total	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.088	2,294.088	0.7142		2,311.943	

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	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	0.0701	0.0412	0.5442	1.3100e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334	130.7587	130.7587	3.8700e-003	130.8556			
Total	0.0701	0.0412	0.5442	1.3100e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334	130.7587	130.7587	3.8700e-003			130.8556	

Placer Creek Apartments - Placer County APCD Air District, Summer

3.6 Architectural Coating - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Archit. Coating	8.9334						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000	
Off-Road	0.2986	2.0058	1.8542	2.9700e-003			0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	9.2321	2.0058	1.8542	2.9700e-003			0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.1543	0.0905	1.1971	2.8900e-003	0.2711	1.7800e-003	0.2729	0.0719	1.6400e-003	0.0736			287.6692	287.6692	8.5200e-003		287.8823
Total	0.1543	0.0905	1.1971	2.8900e-003	0.2711	1.7800e-003	0.2729	0.0719	1.6400e-003	0.0736			287.6692	287.6692	8.5200e-003		287.8823

Placer Creek Apartments - Placer County APCD Air District, Summer

3.6 Architectural Coating - 2018**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	8.9334						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000	
Off-Road	0.2986	2.0058	1.8542	2.9700e-003			0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	9.2321	2.0058	1.8542	2.9700e-003			0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Worker	0.1543	0.0905	1.1971	2.8900e-003	0.2711	1.7800e-003	0.2729	0.0719	1.6400e-003	0.0736		287.6692	287.6692	8.5200e-003		287.8823	
Total	0.1543	0.0905	1.1971	2.8900e-003	0.2711	1.7800e-003	0.2729	0.0719	1.6400e-003	0.0736		287.6692	287.6692	8.5200e-003		287.8823	

Placer Creek Apartments - Placer County APCD Air District, Summer

3.6 Architectural Coating - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Archit. Coating	8.9334						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000	
Off-Road	0.2664	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	9.1999	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.1399	0.0796	1.0755	2.8000e-003	0.2711	1.7600e-003	0.2729	0.0719	1.6200e-003	0.0735			279.0691	279.0691	7.5800e-003		279.2587
Total	0.1399	0.0796	1.0755	2.8000e-003	0.2711	1.7600e-003	0.2729	0.0719	1.6200e-003	0.0735			279.0691	279.0691	7.5800e-003		279.2587

Placer Creek Apartments - Placer County APCD Air District, Summer

3.6 Architectural Coating - 2019**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	8.9334						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238	282.0423
Total	9.1999	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238	282.0423

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	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	0.1399	0.0796	1.0755	2.8000e-003	0.2711	1.7600e-003	0.2729	0.0719	1.6200e-003	0.0735	279.0691	279.0691	7.5800e-003			279.2587
Total	0.1399	0.0796	1.0755	2.8000e-003	0.2711	1.7600e-003	0.2729	0.0719	1.6200e-003	0.0735		279.0691	279.0691	7.5800e-003		279.2587

4.0 Operational Detail - Mobile

Placer Creek Apartments - Placer County APCD Air District, Summer

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Mitigated	4.1750	23.0350	43.8538	0.1442	9.9513	0.1736	10.1249	2.6666	0.1642	2.8309	14,582.52 05	14,582.52 05	0.6003			14,597.52 68	
Unmitigated	4.2050	23.2869	44.5787	0.1468	10.1543	0.1768	10.3312	2.7210	0.1673	2.8883	14,851.07 76	14,851.07 76	0.6076			14,866.26 80	

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,528.88	1,661.12	1408.24	4,384,289	4,296,603
Total	1,528.88	1,661.12	1,408.24	4,384,289	4,296,603

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Placer Creek Apartments - Placer County APCD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.483320	0.042482	0.220179	0.137288	0.028029	0.006922	0.026094	0.044447	0.001489	0.001255	0.006257	0.000793	0.001444

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0855	0.7302	0.3107	4.6600e-003			0.0590	0.0590		0.0590	0.0590	932.1437	932.1437	0.0179	0.0171	937.6830
NaturalGas Unmitigated	0.1115	0.9529	0.4055	6.0800e-003			0.0771	0.0771		0.0771	0.0771	1,216.504	1,216.504	0.0233	0.0223	1,223.733

Placer Creek Apartments - Placer County APCD Air District, Summer

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	10340.3	0.1115	0.9529	0.4055	6.0800e-003		0.0771	0.0771		0.0771	0.0771	1,216.504	1,216.504	0.0233	0.0223	1,223.733	
Total		0.1115	0.9529	0.4055	6.0800e-003		0.0771	0.0771		0.0771	0.0771	1,216.504	1,216.504	0.0233	0.0223	1,223.733	

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	7.92322	0.0855	0.7302	0.3107	4.6600e-003		0.0590	0.0590		0.0590	0.0590	932.1437	932.1437	0.0179	0.0171	937.6830	
Total		0.0855	0.7302	0.3107	4.6600e-003		0.0590	0.0590		0.0590	0.0590	932.1437	932.1437	0.0179	0.0171	937.6830	

6.0 Area Detail**6.1 Mitigation Measures Area**

Placer Creek Apartments - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Mitigated	12.1189	1.1102	71.6124	0.1721		8.6502	8.6502		8.6502	8.6502	1,260.817 9	76.8171	1,337.635 0	5.9287	7.8000e-004	1,486.084 1	
Unmitigated	12.1189	1.1102	71.6124	0.1721		8.6502	8.6502		8.6502	8.6502	1,260.817 9	76.8171	1,337.635 0	5.9287	7.8000e-004	1,486.084 1	

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.9648					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.7698	0.8874	52.3774	0.1711		8.5448	8.5448		8.5448	8.5448	1,260.817 9	42.3529	1,303.170 9	5.8949	7.8000e-004	1,450.774 2
Landscaping	0.5888	0.2228	19.2351	1.0100e-003		0.1054	0.1054		0.1054	0.1054		34.4641	34.4641	0.0338		35.3099
Total	12.1189	1.1102	71.6125	0.1721		8.6502	8.6502		8.6502	8.6502	1,260.817 9	76.8171	1,337.635 0	5.9287	7.8000e-004	1,486.084 1

Placer Creek Apartments - Placer County APCD Air District, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7954						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Consumer Products	4.9648						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Hearth	5.7698	0.8874	52.3774	0.1711		8.5448	8.5448		8.5448	8.5448	1,260.817 9	42.3529	1,303.170 9	5.8949	7.8000e-004	1,450.774 2
Landscaping	0.5888	0.2228	19.2351	1.0100e-003		0.1054	0.1054		0.1054	0.1054		34.4641	34.4641	0.0338		35.3099
Total	12.1189	1.1102	71.6125	0.1721		8.6502	8.6502		8.6502	8.6502	1,260.817 9	76.8171	1,337.635 0	5.9287	7.8000e-004	1,486.084 1

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

Placer Creek Apartments - Placer County APCD Air District, Summer

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Placer Creek Apartments - Placer County APCD Air District, Winter

Placer Creek Apartments
Placer County APCD Air District, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	232.00	Dwelling Unit	14.50	232,000.00	664

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	410.05	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted per PG&E's anticipated progress towards statewide RPS reduction goals

Land Use - based on info from applicant

Construction Phase - based on info from applicant

Grading - project would disturb approximately 10 acres

Architectural Coating -

Woodstoves - according to info from applicant

Mobile Land Use Mitigation -

Energy Mitigation -

Placer Creek Apartments - Placer County APCD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	325.00
tblConstructionPhase	NumDays	300.00	325.00
tblConstructionPhase	NumDays	30.00	21.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	10.00	3.00
tblConstructionPhase	PhaseEndDate	1/8/2021	10/25/2019
tblConstructionPhase	PhaseEndDate	10/3/2019	10/11/2019
tblConstructionPhase	PhaseEndDate	10/11/2019	7/13/2018
tblConstructionPhase	PhaseStartDate	10/12/2019	7/28/2018
tblConstructionPhase	PhaseStartDate	7/6/2018	7/14/2018
tblConstructionPhase	PhaseStartDate	10/4/2019	7/6/2018
tblFireplaces	NumberGas	127.60	2.00
tblFireplaces	NumberNoFireplace	23.20	230.00
tblFireplaces	NumberWood	81.20	0.00
tblGrading	AcresOfGrading	52.50	10.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	410.05
tblProjectCharacteristics	OperationalYear	2018	2019

2.0 Emissions Summary

Placer Creek Apartments - Placer County APCD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	lb/day										lb/day						
2018	12.9477	59.5907	35.7508	0.0636	18.2141	2.6348	20.7920	9.9699	2.4240	12.3416	0.0000	6,399.663	3	6,399.663	1.9488	0.0000	6,448.3820
2019	12.4957	26.7271	25.6257	0.0522	1.8123	1.4491	3.2614	0.4845	1.3702	1.8548	0.0000	5,130.564	3	5,130.564	0.7403	0.0000	5,149.0718
Maximum	12.9477	59.5907	35.7508	0.0636	18.2141	2.6348	20.7920	9.9699	2.4240	12.3416	0.0000	6,399.663	3	6,399.663	1.9488	0.0000	6,448.3820

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						
2018	12.9477	59.5907	35.7508	0.0636	18.2141	2.6348	20.7920	9.9699	2.4240	12.3416	0.0000	6,399.663	6,399.663	1.9488	0.0000	6,448.382	
2019	12.4957	26.7271	25.6257	0.0522	1.8123	1.4491	3.2614	0.4845	1.3702	1.8548	0.0000	5,130.564	5,130.564	0.7403	0.0000	5,149.071	
Maximum	12.9477	59.5907	35.7508	0.0636	18.2141	2.6348	20.7920	9.9699	2.4240	12.3416	0.0000	6,399.663	6,399.663	1.9488	0.0000	6,448.382	

Placer Creek Apartments - Placer County APCD Air District, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	12.1189	1.1102	71.6124	0.1721		8.6502	8.6502		8.6502	8.6502	1,260.817 9	76.8171 0	1,337.635 0	5.9287	7.8000e- 004	1,486.084 1
Energy	0.1115	0.9529	0.4055	6.0800e- 003		0.0771	0.0771		0.0771	0.0771	1,216.504 8	1,216.504 8	0.0233	0.0223		1,223.733 9
Mobile	3.4729	24.4939	43.4184	0.1348	10.1543	0.1795	10.3338	2.7210	0.1698	2.8908	13,639.35 09	13,639.35 09	0.6270			13,655.02 56
Total	15.7033	26.5570	115.4364	0.3129	10.1543	8.9068	19.0611	2.7210	8.8971	11.6181	1,260.817 9	14,932.67 28	16,193.49 08	6.5790	0.0231	16,364.84 36

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	12.1189	1.1102	71.6124	0.1721		8.6502	8.6502		8.6502	8.6502	1,260.817 9	76.8171 0	1,337.635 0	5.9287	7.8000e- 004	1,486.084 1
Energy	0.0855	0.7302	0.3107	4.6600e- 003		0.0590	0.0590		0.0590	0.0590	932.1437	932.1437	0.0179	0.0171		937.6830
Mobile	3.4434	24.2134	42.8022	0.1323	9.9513	0.1763	10.1275	2.6666	0.1668	2.8334	13,392.00 24	13,392.00 24	0.6202			13,407.50 67
Total	15.6477	26.0538	114.7253	0.3091	9.9513	8.8855	18.8368	2.6666	8.8760	11.5426	1,260.817 9	14,400.96 32	15,661.78 11	6.5668	0.0179	15,831.27 38

Placer Creek Apartments - Placer County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.35	1.89	0.62	1.23	2.00	0.24	1.18	2.00	0.24	0.65	0.00	3.56	3.28	0.19	22.57	3.26

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/4/2018	6/6/2018	5	3	
2	Grading	Grading	6/7/2018	7/5/2018	5	21	
3	Building Construction	Building Construction	7/14/2018	10/11/2019	5	325	
4	Paving	Paving	7/6/2018	7/13/2018	5	6	
5	Architectural Coating	Architectural Coating	7/28/2018	10/25/2019	5	325	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 469,800; Residential Outdoor: 156,600; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0
(Architectural Coating – sqft)

OffRoad Equipment

Placer Creek Apartments - Placer County APCD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	167.00	25.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	33.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Placer Creek Apartments - Placer County APCD Air District, Winter

3.2 Site Preparation - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day												lb/day				
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000	
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	3,831.623 9	3,831.623 9	1.1928			3,861.444 8	
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	3,831.623 9	3,831.623 9	1.1928			3,861.444 8	

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	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	0.0816	0.0620	0.5952	1.4000e-003	0.1479	9.7000e-004	0.1488	0.0392	9.0000e-004	0.0401	139.7114	139.7114	4.3000e-003			139.8188
Total	0.0816	0.0620	0.5952	1.4000e-003	0.1479	9.7000e-004	0.1488	0.0392	9.0000e-004	0.0401	139.7114	139.7114	4.3000e-003			139.8188

Placer Creek Apartments - Placer County APCD Air District, Winter

3.2 Site Preparation - 2018**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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000	
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.623 9	3,831.623 9	1.1928		3,861.444 8	
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014	0.0000	3,831.623 9	3,831.623 9	1.1928		3,861.444 8	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0816	0.0620	0.5952	1.4000e-003	0.1479	9.7000e-004	0.1488	0.0392	9.0000e-004	0.0401			139.7114	139.7114	4.3000e-003	139.8188	
Total	0.0816	0.0620	0.5952	1.4000e-003	0.1479	9.7000e-004	0.1488	0.0392	9.0000e-004	0.0401			139.7114	139.7114	4.3000e-003	139.8188	

Placer Creek Apartments - Placer County APCD Air District, Winter

3.3 Grading - 2018**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					6.5271	0.0000	6.5271	3.3648	0.0000	3.3648			0.0000			0.0000	
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.428 4	6,244.428 4	1.9440		6,293.027 8	
Total	5.0901	59.5218	35.0894	0.0620	6.5271	2.6337	9.1608	3.3648	2.4230	5.7878		6,244.428 4	6,244.428 4	1.9440		6,293.027 8	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000	
Worker	0.0907	0.0689	0.6614	1.5600e-003	0.1643	1.0800e-003	0.1654	0.0436	9.9000e-004	0.0446		155.2349	155.2349	4.7700e-003		155.3542	
Total	0.0907	0.0689	0.6614	1.5600e-003	0.1643	1.0800e-003	0.1654	0.0436	9.9000e-004	0.0446		155.2349	155.2349	4.7700e-003		155.3542	

Placer Creek Apartments - Placer County APCD Air District, Winter

3.3 Grading - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					6.5271	0.0000	6.5271	3.3648	0.0000	3.3648			0.0000			0.0000	
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.428 4	6,244.428 4	1.9440		6,293.027 8	
Total	5.0901	59.5218	35.0894	0.0620	6.5271	2.6337	9.1608	3.3648	2.4230	5.7878	0.0000	6,244.428 4	6,244.428 4	1.9440		6,293.027 8	

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	
Worker	0.0907	0.0689	0.6614	1.5600e-003	0.1643	1.0800e-003	0.1654	0.0436	9.9000e-004	0.0446			155.2349	155.2349	4.7700e-003	155.3542	
Total	0.0907	0.0689	0.6614	1.5600e-003	0.1643	1.0800e-003	0.1654	0.0436	9.9000e-004	0.0446			155.2349	155.2349	4.7700e-003	155.3542	

Placer Creek Apartments - Placer County APCD Air District, Winter

3.4 Building Construction - 2018**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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	2,620.935 1	2,620.935 1	0.6421			2,636.988 3	
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	2,620.935 1	2,620.935 1	0.6421			2,636.988 3	

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	0.0000	
Vendor	0.1295	3.4034	0.8199	7.2500e-003	0.1693	0.0243	0.1937	0.0488	0.0233	0.0720	758.3062	758.3062	0.0453			759.4374	
Worker	0.7571	0.5750	5.5224	0.0130	1.3719	9.0000e-003	1.3809	0.3639	8.3000e-003	0.3722	1,296.211 6	1,296.211 6	0.0399			1,297.207 9	
Total	0.8866	3.9784	6.3423	0.0203	1.5412	0.0333	1.5746	0.4126	0.0316	0.4442	2,054.517 8	2,054.517 8	0.0851			2,056.645 3	

Placer Creek Apartments - Placer County APCD Air District, Winter

3.4 Building Construction - 2018**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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935	2,620.935	0.6421		2,636.988	
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935	2,620.935	0.6421		2,636.988	

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	0.0000	
Vendor	0.1295	3.4034	0.8199	7.2500e-003	0.1693	0.0243	0.1937	0.0488	0.0233	0.0720	758.3062	758.3062	0.0453			759.4374	
Worker	0.7571	0.5750	5.5224	0.0130	1.3719	9.0000e-003	1.3809	0.3639	8.3000e-003	0.3722	1,296.211	1,296.211	0.0399			1,297.207	
Total	0.8866	3.9784	6.3423	0.0203	1.5412	0.0333	1.5746	0.4126	0.0316	0.4442	2,054.517	2,054.517	0.0851			2,056.645	

Placer Creek Apartments - Placer County APCD Air District, Winter

3.4 Building Construction - 2019**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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	2,591.580 2	2,591.580 2	0.6313		2,607.363 5		
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	2,591.580 2	2,591.580 2	0.6313		2,607.363 5		

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	0.0000	
Vendor	0.1143	3.2079	0.7338	7.1900e-003	0.1693	0.0198	0.1891	0.0488	0.0189	0.0677	751.7243	751.7243	0.0430		752.8002		
Worker	0.6850	0.5052	4.9154	0.0126	1.3719	8.9000e-003	1.3808	0.3639	8.2100e-003	0.3721	1,257.352 9	1,257.352 9	0.0352		1,258.233 0		
Total	0.7993	3.7131	5.6492	0.0198	1.5412	0.0287	1.5699	0.4126	0.0271	0.4398	2,009.077 2	2,009.077 2	0.0782		2,011.033 1		

Placer Creek Apartments - Placer County APCD Air District, Winter

3.4 Building Construction - 2019**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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.0000
Vendor	0.1143	3.2079	0.7338	7.1900e-003	0.1693	0.0198	0.1891	0.0488	0.0189	0.0677	751.7243	751.7243	0.0430			752.8002
Worker	0.6850	0.5052	4.9154	0.0126	1.3719	8.9000e-003	1.3808	0.3639	8.2100e-003	0.3721	1,257.352 9	1,257.352 9	0.0352			1,258.233 0
Total	0.7993	3.7131	5.6492	0.0198	1.5412	0.0287	1.5699	0.4126	0.0271	0.4398	2,009.077 2	2,009.077 2	0.0782			2,011.033 1

Placer Creek Apartments - Placer County APCD Air District, Winter

3.5 Paving - 2018**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	1.6437	17.5209	14.7964	0.0228			0.9561	0.9561		0.8797	0.8797	2,294.088 7	2,294.088 7	0.7142		2,311.943 2
Paving	0.0000						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Total	1.6437	17.5209	14.7964	0.0228			0.9561	0.9561		0.8797	0.8797	2,294.088 7	2,294.088 7	0.7142		2,311.943 2

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	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	0.0680	0.0517	0.4960	1.1700e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334	116.4262	116.4262	3.5800e-003			116.5157
Total	0.0680	0.0517	0.4960	1.1700e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334		116.4262	116.4262	3.5800e-003		116.5157

Placer Creek Apartments - Placer County APCD Air District, Winter

3.5 Paving - 2018

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	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.088	2,294.088	0.7142		2,311.943	
Paving	0.0000					0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	
Total	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.088	2,294.088	0.7142		2,311.943	

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	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	0.0680	0.0517	0.4960	1.1700e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334	116.4262	116.4262	3.5800e-003	116.5157			
Total	0.0680	0.0517	0.4960	1.1700e-003	0.1232	8.1000e-004	0.1240	0.0327	7.5000e-004	0.0334	116.4262	116.4262	3.5800e-003			116.5157	

Placer Creek Apartments - Placer County APCD Air District, Winter

3.6 Architectural Coating - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	8.9334						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000	
Off-Road	0.2986	2.0058	1.8542	2.9700e-003			0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	9.2321	2.0058	1.8542	2.9700e-003			0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

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	0.1496	0.1136	1.0913	2.5700e-003	0.2711	1.7800e-003	0.2729	0.0719	1.6400e-003	0.0736		256.1376	256.1376	7.8700e-003		256.3345
Total	0.1496	0.1136	1.0913	2.5700e-003	0.2711	1.7800e-003	0.2729	0.0719	1.6400e-003	0.0736		256.1376	256.1376	7.8700e-003		256.3345

Placer Creek Apartments - Placer County APCD Air District, Winter

3.6 Architectural Coating - 2018**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	8.9334						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003			0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267	282.1171
Total	9.2321	2.0058	1.8542	2.9700e-003			0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267	282.1171

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	0.1496	0.1136	1.0913	2.5700e-003	0.2711	1.7800e-003	0.2729	0.0719	1.6400e-003	0.0736		256.1376	256.1376	7.8700e-003		256.3345
Total	0.1496	0.1136	1.0913	2.5700e-003	0.2711	1.7800e-003	0.2729	0.0719	1.6400e-003	0.0736		256.1376	256.1376	7.8700e-003		256.3345

Placer Creek Apartments - Placer County APCD Air District, Winter

3.6 Architectural Coating - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	8.9334						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000	
Off-Road	0.2664	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	9.1999	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	0.1354	0.0998	0.9713	2.5000e-003	0.2711	1.7600e-003	0.2729	0.0719	1.6200e-003	0.0735		248.4590	248.4590	6.9600e-003		248.6329
Total	0.1354	0.0998	0.9713	2.5000e-003	0.2711	1.7600e-003	0.2729	0.0719	1.6200e-003	0.0735		248.4590	248.4590	6.9600e-003		248.6329

Placer Creek Apartments - Placer County APCD Air District, Winter

3.6 Architectural Coating - 2019**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	8.9334						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238	282.0423
Total	9.1999	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238	282.0423

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	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	0.1354	0.0998	0.9713	2.5000e-003	0.2711	1.7600e-003	0.2729	0.0719	1.6200e-003	0.0735		248.4590	248.4590	6.9600e-003		248.6329
Total	0.1354	0.0998	0.9713	2.5000e-003	0.2711	1.7600e-003	0.2729	0.0719	1.6200e-003	0.0735		248.4590	248.4590	6.9600e-003		248.6329

4.0 Operational Detail - Mobile

Placer Creek Apartments - Placer County APCD Air District, Winter

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Mitigated	3.4434	24.2134	42.8022	0.1323	9.9513	0.1763	10.1275	2.6666	0.1668	2.8334	13,392.00 24	13,392.00 24	0.6202			13,407.50 67	
Unmitigated	3.4729	24.4939	43.4184	0.1348	10.1543	0.1795	10.3338	2.7210	0.1698	2.8908	13,639.35 09	13,639.35 09	0.6270			13,655.02 56	

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,528.88	1,661.12	1408.24	4,384,289	4,296,603
Total	1,528.88	1,661.12	1,408.24	4,384,289	4,296,603

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Placer Creek Apartments - Placer County APCD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.483320	0.042482	0.220179	0.137288	0.028029	0.006922	0.026094	0.044447	0.001489	0.001255	0.006257	0.000793	0.001444

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0855	0.7302	0.3107	4.6600e-003			0.0590	0.0590		0.0590	0.0590	932.1437	932.1437	0.0179	0.0171	937.6830
NaturalGas Unmitigated	0.1115	0.9529	0.4055	6.0800e-003			0.0771	0.0771		0.0771	0.0771	1,216.504	1,216.504	0.0233	0.0223	1,223.733

Placer Creek Apartments - Placer County APCD Air District, Winter

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	10340.3	0.1115	0.9529	0.4055	6.0800e-003		0.0771	0.0771		0.0771	0.0771	1,216.504	1,216.504	0.0233	0.0223	1,223.733	
Total		0.1115	0.9529	0.4055	6.0800e-003		0.0771	0.0771		0.0771	0.0771	1,216.504	1,216.504	0.0233	0.0223	1,223.733	

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	7.92322	0.0855	0.7302	0.3107	4.6600e-003		0.0590	0.0590		0.0590	0.0590	932.1437	932.1437	0.0179	0.0171	937.6830	
Total		0.0855	0.7302	0.3107	4.6600e-003		0.0590	0.0590		0.0590	0.0590	932.1437	932.1437	0.0179	0.0171	937.6830	

6.0 Area Detail**6.1 Mitigation Measures Area**

Placer Creek Apartments - Placer County APCD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Mitigated	12.1189	1.1102	71.6124	0.1721		8.6502	8.6502		8.6502	8.6502	1,260.817 9	76.8171	1,337.635 0	5.9287	7.8000e-004	1,486.084 1	
Unmitigated	12.1189	1.1102	71.6124	0.1721		8.6502	8.6502		8.6502	8.6502	1,260.817 9	76.8171	1,337.635 0	5.9287	7.8000e-004	1,486.084 1	

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7954					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.9648					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.7698	0.8874	52.3774	0.1711		8.5448	8.5448		8.5448	8.5448	1,260.817 9	42.3529	1,303.170 9	5.8949	7.8000e-004	1,450.774 2
Landscaping	0.5888	0.2228	19.2351	1.0100e-003		0.1054	0.1054		0.1054	0.1054		34.4641	34.4641	0.0338		35.3099
Total	12.1189	1.1102	71.6125	0.1721		8.6502	8.6502		8.6502	8.6502	1,260.817 9	76.8171	1,337.635 0	5.9287	7.8000e-004	1,486.084 1

Placer Creek Apartments - Placer County APCD Air District, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.7954						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Consumer Products	4.9648						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Hearth	5.7698	0.8874	52.3774	0.1711		8.5448	8.5448		8.5448	8.5448	1,260.817 9	42.3529	1,303.170 9	5.8949	7.8000e-004	1,450.774 2
Landscaping	0.5888	0.2228	19.2351	1.0100e-003		0.1054	0.1054		0.1054	0.1054		34.4641	34.4641	0.0338		35.3099
Total	12.1189	1.1102	71.6125	0.1721		8.6502	8.6502		8.6502	8.6502	1,260.817 9	76.8171	1,337.635 0	5.9287	7.8000e-004	1,486.084 1

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

Placer Creek Apartments - Placer County APCD Air District, Winter

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Placer Creek Apartments - Placer County APCD Air District, Annual

Placer Creek Apartments
Placer County APCD Air District, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	232.00	Dwelling Unit	14.50	232,000.00	664

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	410.05	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 intensity factor adjusted per PG&E's anticipated progress towards statewide RPS reduction goals

Land Use - based on info from applicant

Construction Phase - based on info from applicant

Grading - project would disturb approximately 10 acres

Architectural Coating -

Woodstoves - according to info from applicant

Mobile Land Use Mitigation -

Energy Mitigation -

Placer Creek Apartments - Placer County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	325.00
tblConstructionPhase	NumDays	300.00	325.00
tblConstructionPhase	NumDays	30.00	21.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	10.00	3.00
tblConstructionPhase	PhaseEndDate	1/8/2021	10/25/2019
tblConstructionPhase	PhaseEndDate	10/3/2019	10/11/2019
tblConstructionPhase	PhaseEndDate	10/11/2019	7/13/2018
tblConstructionPhase	PhaseStartDate	10/12/2019	7/28/2018
tblConstructionPhase	PhaseStartDate	7/6/2018	7/14/2018
tblConstructionPhase	PhaseStartDate	10/4/2019	7/6/2018
tblFireplaces	NumberGas	127.60	2.00
tblFireplaces	NumberNoFireplace	23.20	230.00
tblFireplaces	NumberWood	81.20	0.00
tblGrading	AcresOfGrading	52.50	10.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	410.05
tblProjectCharacteristics	OperationalYear	2018	2019

2.0 Emissions Summary

Placer Creek Apartments - Placer County APCD Air District, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	tons/yr										MT/yr						
2018	0.7984	2.5210	2.0546	3.9900e-003	0.2015	0.1356	0.3371	0.0786	0.1273	0.2059	0.0000	359.5823	359.5823	0.0637	0.0000	361.1736	
2019	1.3143	2.7313	2.6117	5.4000e-003	0.1781	0.1484	0.3266	0.0478	0.1404	0.1882	0.0000	482.0620	482.0620	0.0684	0.0000	483.7722	
Maximum	1.3143	2.7313	2.6117	5.4000e-003	0.2015	0.1484	0.3371	0.0786	0.1404	0.2059	0.0000	482.0620	482.0620	0.0684	0.0000	483.7722	

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						
2018	0.7984	2.5210	2.0546	3.9900e-003	0.2015	0.1356	0.3371	0.0786	0.1273	0.2059	0.0000	359.5820	359.5820	0.0637	0.0000	361.1733	
2019	1.3143	2.7313	2.6117	5.4000e-003	0.1781	0.1484	0.3266	0.0478	0.1404	0.1882	0.0000	482.0617	482.0617	0.0684	0.0000	483.7719	
Maximum	1.3143	2.7313	2.6117	5.4000e-003	0.2015	0.1484	0.3371	0.0786	0.1404	0.2059	0.0000	482.0617	482.0617	0.0684	0.0000	483.7719	

Placer Creek Apartments - Placer County APCD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-4-2018	9-3-2018	1.5100	1.5100
2	9-4-2018	12-3-2018	1.3775	1.3775
3	12-4-2018	3-3-2019	1.2929	1.2929
4	3-4-2019	6-3-2019	1.2855	1.2855
5	6-4-2019	9-3-2019	1.2841	1.2841
6	9-4-2019	9-30-2019	0.3768	0.3768
		Highest	1.5100	1.5100

2.2 Overall OperationalUnmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Area	1.3408	0.0564	3.8786	7.1000e-003		0.3598	0.3598		0.3598	0.3598	46.8956	4.3892	51.2848	0.2220	3.0000e-005	56.8439	
Energy	0.0204	0.1739	0.0740	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	409.8878	409.8878	0.0186	6.7400e-003	412.3623	
Mobile	0.5950	4.0475	6.9891	0.0231	1.6294	0.0298	1.6592	0.4383	0.0282	0.4665	0.0000	2,118.6602	2,118.6602	0.0922	0.0000	2,120.9653	
Waste						0.0000	0.0000		0.0000	0.0000	21.6632	0.0000	21.6632	1.2803	0.0000	53.6697	
Water						0.0000	0.0000		0.0000	0.0000	4.7955	21.4164	26.2119	0.4941	0.0119	42.1226	
Total	1.9561	4.2779	10.9417	0.0313	1.6294	0.4037	2.0331	0.4383	0.4021	0.8403	73.3543	2,554.3535	2,627.7078	2.1071	0.0187	2,685.9636	

Placer Creek Apartments - Placer County APCD Air District, Annual

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Area	1.3408	0.0564	3.8786	7.1000e-003		0.3598	0.3598		0.3598	0.3598	46.8956	4.3892	51.2848	0.2220	3.0000e-005	56.8439	
Energy	0.0156	0.1333	0.0567	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	355.5263	355.5263	0.0172	5.7700e-003	357.6764	
Mobile	0.5901	4.0021	6.8845	0.0227	1.5968	0.0293	1.6260	0.4295	0.0277	0.4572	0.0000	2,080.418 9	2,080.418 9	0.0912	0.0000	2,082.697 9	
Waste						0.0000	0.0000		0.0000	0.0000	21.6632	0.0000	21.6632	1.2803	0.0000	53.6697	
Water						0.0000	0.0000		0.0000	0.0000	4.7955	21.4164	26.2119	0.4941	0.0119	42.1226	
Total	1.9465	4.1918	10.8198	0.0306	1.5968	0.3999	1.9966	0.4295	0.3983	0.8278	73.3543	2,461.750 7	2,535.105 0	2.1047	0.0177	2,593.010 3	

	ROG	NOx	CO	SO2	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	0.49	2.01	1.11	2.17	2.00	0.95	1.79	2.00	0.95	1.49	0.00	3.63	3.52	0.12	5.18	3.46

3.0 Construction Detail**Construction Phase**

Placer Creek Apartments - Placer County APCD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/4/2018	6/6/2018	5	3	
2	Grading	Grading	6/7/2018	7/5/2018	5	21	
3	Building Construction	Building Construction	7/14/2018	10/11/2019	5	325	
4	Paving	Paving	7/6/2018	7/13/2018	5	6	
5	Architectural Coating	Architectural Coating	7/28/2018	10/25/2019	5	325	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 469,800; Residential Outdoor: 156,600; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Placer Creek Apartments - Placer County APCD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	167.00	25.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	33.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Placer Creek Apartments - Placer County APCD Air District, Annual

3.2 Site Preparation - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0271	0.0000	0.0271	0.0149	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	6.8400e-003	0.0723	0.0337	6.0000e-005		3.8700e-003	3.8700e-003		3.5600e-003	3.5600e-003	0.0000	5.2140	5.2140	1.6200e-003	0.0000	5.2546	
Total	6.8400e-003	0.0723	0.0337	6.0000e-005	0.0271	3.8700e-003	0.0310	0.0149	3.5600e-003	0.0185	0.0000	5.2140	5.2140	1.6200e-003	0.0000	5.2546	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	1.1000e-004	8.0000e-005	8.8000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1949	0.1949	1.0000e-005	0.0000	0.1950	
Total	1.1000e-004	8.0000e-005	8.8000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1949	0.1949	1.0000e-005	0.0000	0.1950	

Placer Creek Apartments - Placer County APCD Air District, Annual

3.2 Site Preparation - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0271	0.0000	0.0271	0.0149	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	6.8400e-003	0.0723	0.0337	6.0000e-005		3.8700e-003	3.8700e-003		3.5600e-003	3.5600e-003	0.0000	5.2140	5.2140	1.6200e-003	0.0000	5.2546	
Total	6.8400e-003	0.0723	0.0337	6.0000e-005	0.0271	3.8700e-003	0.0310	0.0149	3.5600e-003	0.0185	0.0000	5.2140	5.2140	1.6200e-003	0.0000	5.2546	

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	1.1000e-004	8.0000e-005	8.8000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1949	0.1949	1.0000e-005	0.0000	0.1950	
Total	1.1000e-004	8.0000e-005	8.8000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1949	0.1949	1.0000e-005	0.0000	0.1950	

Placer Creek Apartments - Placer County APCD Air District, Annual

3.3 Grading - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0685	0.0000	0.0685	0.0353	0.0000	0.0353	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0535	0.6250	0.3684	6.5000e-004		0.0277	0.0277		0.0254	0.0254	0.0000	59.4809	59.4809	0.0185	0.0000	59.9439	
Total	0.0535	0.6250	0.3684	6.5000e-004	0.0685	0.0277	0.0962	0.0353	0.0254	0.0608	0.0000	59.4809	59.4809	0.0185	0.0000	59.9439	

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	8.8000e-004	6.5000e-004	6.8100e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5158	1.5158	5.0000e-005	0.0000	1.5169	
Total	8.8000e-004	6.5000e-004	6.8100e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5158	1.5158	5.0000e-005	0.0000	1.5169	

Placer Creek Apartments - Placer County APCD Air District, Annual

3.3 Grading - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0685	0.0000	0.0685	0.0353	0.0000	0.0353	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0535	0.6250	0.3684	6.5000e-004		0.0277	0.0277		0.0254	0.0254	0.0000	59.4809	59.4809	0.0185	0.0000	59.9438	
Total	0.0535	0.6250	0.3684	6.5000e-004	0.0685	0.0277	0.0962	0.0353	0.0254	0.0608	0.0000	59.4809	59.4809	0.0185	0.0000	59.9438	

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	8.8000e-004	6.5000e-004	6.8100e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5158	1.5158	5.0000e-005	0.0000	1.5169	
Total	8.8000e-004	6.5000e-004	6.8100e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5158	1.5158	5.0000e-005	0.0000	1.5169	

Placer Creek Apartments - Placer County APCD Air District, Annual

3.4 Building Construction - 2018**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	0.1621	1.4151	1.0636	1.6300e-003		0.0907	0.0907		0.0853	0.0853	0.0000	143.8492	143.8492	0.0352	0.0000	144.7303
Total	0.1621	1.4151	1.0636	1.6300e-003		0.0907	0.0907		0.0853	0.0853	0.0000	143.8492	143.8492	0.0352	0.0000	144.7303

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	7.6000e-003	0.2066	0.0452	4.5000e-004	9.8800e-003	1.4500e-003	0.0113	2.8600e-003	1.3900e-003	4.2500e-003	0.0000	42.4417	42.4417	2.3300e-003	0.0000	42.5001
Worker	0.0422	0.0315	0.3278	8.1000e-004	0.0793	5.4000e-004	0.0799	0.0211	5.0000e-004	0.0216	0.0000	72.9271	72.9271	2.1900e-003	0.0000	72.9818
Total	0.0498	0.2381	0.3730	1.2600e-003	0.0892	1.9900e-003	0.0912	0.0240	1.8900e-003	0.0259	0.0000	115.3688	115.3688	4.5200e-003	0.0000	115.4819

Placer Creek Apartments - Placer County APCD Air District, Annual

3.4 Building Construction - 2018**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	0.1621	1.4151	1.0636	1.6300e-003		0.0907	0.0907		0.0853	0.0853	0.0000	143.8490	143.8490	0.0352	0.0000	144.7301
Total	0.1621	1.4151	1.0636	1.6300e-003		0.0907	0.0907		0.0853	0.0853	0.0000	143.8490	143.8490	0.0352	0.0000	144.7301

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	7.6000e-003	0.2066	0.0452	4.5000e-004	9.8800e-003	1.4500e-003	0.0113	2.8600e-003	1.3900e-003	4.2500e-003	0.0000	42.4417	42.4417	2.3300e-003	0.0000	42.5001
Worker	0.0422	0.0315	0.3278	8.1000e-004	0.0793	5.4000e-004	0.0799	0.0211	5.0000e-004	0.0216	0.0000	72.9271	72.9271	2.1900e-003	0.0000	72.9818
Total	0.0498	0.2381	0.3730	1.2600e-003	0.0892	1.9900e-003	0.0912	0.0240	1.8900e-003	0.0259	0.0000	115.3688	115.3688	4.5200e-003	0.0000	115.4819

Placer Creek Apartments - Placer County APCD Air District, Annual

3.4 Building Construction - 2019**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	0.2408	2.1500	1.7507	2.7500e-003		0.1316	0.1316		0.1237	0.1237	0.0000	239.8063	239.8063	0.0584	0.0000	241.2668
Total	0.2408	2.1500	1.7507	2.7500e-003		0.1316	0.1316		0.1237	0.1237	0.0000	239.8063	239.8063	0.0584	0.0000	241.2668

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	0.0113	0.3285	0.0681	7.5000e-004	0.0167	1.9900e-003	0.0186	4.8200e-003	1.9000e-003	6.7200e-003	0.0000	70.9451	70.9451	3.7400e-003	0.0000	71.0385
Worker	0.0645	0.0467	0.4936	1.3200e-003	0.1338	9.1000e-004	0.1347	0.0356	8.4000e-004	0.0364	0.0000	119.2676	119.2676	3.2700e-003	0.0000	119.3493
Total	0.0758	0.3752	0.5617	2.0700e-003	0.1504	2.9000e-003	0.1533	0.0404	2.7400e-003	0.0432	0.0000	190.2128	190.2128	7.0100e-003	0.0000	190.3879

Placer Creek Apartments - Placer County APCD Air District, Annual

3.4 Building Construction - 2019**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	0.2408	2.1500	1.7507	2.7500e-003		0.1316	0.1316		0.1237	0.1237	0.0000	239.8060	239.8060	0.0584	0.0000	241.2665
Total	0.2408	2.1500	1.7507	2.7500e-003		0.1316	0.1316		0.1237	0.1237	0.0000	239.8060	239.8060	0.0584	0.0000	241.2665

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	0.0113	0.3285	0.0681	7.5000e-004	0.0167	1.9900e-003	0.0186	4.8200e-003	1.9000e-003	6.7200e-003	0.0000	70.9451	70.9451	3.7400e-003	0.0000	71.0385
Worker	0.0645	0.0467	0.4936	1.3200e-003	0.1338	9.1000e-004	0.1347	0.0356	8.4000e-004	0.0364	0.0000	119.2676	119.2676	3.2700e-003	0.0000	119.3493
Total	0.0758	0.3752	0.5617	2.0700e-003	0.1504	2.9000e-003	0.1533	0.0404	2.7400e-003	0.0432	0.0000	190.2128	190.2128	7.0100e-003	0.0000	190.3879

Placer Creek Apartments - Placer County APCD Air District, Annual

3.5 Paving - 2018**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	4.9300e-003	0.0526	0.0444	7.0000e-005		2.8700e-003	2.8700e-003		2.6400e-003	2.6400e-003	0.0000	6.2435	6.2435	1.9400e-003	0.0000	6.2921	
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total	4.9300e-003	0.0526	0.0444	7.0000e-005		2.8700e-003	2.8700e-003		2.6400e-003	2.6400e-003	0.0000	6.2435	6.2435	1.9400e-003	0.0000	6.2921	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	1.9000e-004	1.4000e-004	1.4600e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3248	0.3248	1.0000e-005	0.0000	0.3251	
Total	1.9000e-004	1.4000e-004	1.4600e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3248	0.3248	1.0000e-005	0.0000	0.3251	

Placer Creek Apartments - Placer County APCD Air District, Annual

3.5 Paving - 2018**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	4.9300e-003	0.0526	0.0444	7.0000e-005		2.8700e-003	2.8700e-003		2.6400e-003	2.6400e-003	0.0000	6.2435	6.2435	1.9400e-003	0.0000	6.2921	
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total	4.9300e-003	0.0526	0.0444	7.0000e-005		2.8700e-003	2.8700e-003		2.6400e-003	2.6400e-003	0.0000	6.2435	6.2435	1.9400e-003	0.0000	6.2921	

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	1.9000e-004	1.4000e-004	1.4600e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3248	0.3248	1.0000e-005	0.0000	0.3251	
Total	1.9000e-004	1.4000e-004	1.4600e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3248	0.3248	1.0000e-005	0.0000	0.3251	

Placer Creek Apartments - Placer County APCD Air District, Annual

3.6 Architectural Coating - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	0.4958						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0166	0.1113	0.1029	1.6000e-004			8.3600e-003	8.3600e-003		8.3600e-003	8.3600e-003	0.0000	14.1706	14.1706	1.3500e-003	0.0000	14.2043
Total	0.5124	0.1113	0.1029	1.6000e-004			8.3600e-003	8.3600e-003		8.3600e-003	8.3600e-003	0.0000	14.1706	14.1706	1.3500e-003	0.0000	14.2043

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	7.6600e-003	5.7100e-003	0.0594	1.5000e-004	0.0144	1.0000e-004	0.0145	3.8300e-003	9.0000e-005	3.9200e-003	0.0000	13.2198	13.2198	4.0000e-004	0.0000	13.2297	
Total	7.6600e-003	5.7100e-003	0.0594	1.5000e-004	0.0144	1.0000e-004	0.0145	3.8300e-003	9.0000e-005	3.9200e-003	0.0000	13.2198	13.2198	4.0000e-004	0.0000	13.2297	

Placer Creek Apartments - Placer County APCD Air District, Annual

3.6 Architectural Coating - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	0.4958						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0166	0.1113	0.1029	1.6000e-004			8.3600e-003	8.3600e-003		8.3600e-003	8.3600e-003	0.0000	14.1706	14.1706	1.3500e-003	0.0000	14.2042
Total	0.5124	0.1113	0.1029	1.6000e-004			8.3600e-003	8.3600e-003		8.3600e-003	8.3600e-003	0.0000	14.1706	14.1706	1.3500e-003	0.0000	14.2042

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	7.6600e-003	5.7100e-003	0.0594	1.5000e-004	0.0144	1.0000e-004	0.0145	3.8300e-003	9.0000e-005	3.9200e-003	0.0000	13.2198	13.2198	4.0000e-004	0.0000	13.2297	
Total	7.6600e-003	5.7100e-003	0.0594	1.5000e-004	0.0144	1.0000e-004	0.0145	3.8300e-003	9.0000e-005	3.9200e-003	0.0000	13.2198	13.2198	4.0000e-004	0.0000	13.2297	

Placer Creek Apartments - Placer County APCD Air District, Annual

3.6 Architectural Coating - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	0.9559						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0285	0.1964	0.1970	3.2000e-004			0.0138	0.0138		0.0138	0.0138	0.0000	27.3198	27.3198	2.3100e-003	0.0000	27.3775
Total	0.9844	0.1964	0.1970	3.2000e-004			0.0138	0.0138		0.0138	0.0138	0.0000	27.3198	27.3198	2.3100e-003	0.0000	27.3775

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	0.0134	9.6700e-003	0.1023	2.7000e-004	0.0277	1.9000e-004	0.0279	7.3800e-003	1.7000e-004	7.5500e-003	0.0000	24.7232	24.7232	6.8000e-004	0.0000	24.7401	
Total	0.0134	9.6700e-003	0.1023	2.7000e-004	0.0277	1.9000e-004	0.0279	7.3800e-003	1.7000e-004	7.5500e-003	0.0000	24.7232	24.7232	6.8000e-004	0.0000	24.7401	

Placer Creek Apartments - Placer County APCD Air District, Annual

3.6 Architectural Coating - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	0.9559						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0285	0.1964	0.1970	3.2000e-004			0.0138	0.0138		0.0138	0.0138	0.0000	27.3198	27.3198	2.3100e-003	0.0000	27.3775
Total	0.9844	0.1964	0.1970	3.2000e-004			0.0138	0.0138		0.0138	0.0138	0.0000	27.3198	27.3198	2.3100e-003	0.0000	27.3775

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	0.0134	9.6700e-003	0.1023	2.7000e-004	0.0277	1.9000e-004	0.0279	7.3800e-003	1.7000e-004	7.5500e-003	0.0000	24.7232	24.7232	6.8000e-004	0.0000	24.7401	
Total	0.0134	9.6700e-003	0.1023	2.7000e-004	0.0277	1.9000e-004	0.0279	7.3800e-003	1.7000e-004	7.5500e-003	0.0000	24.7232	24.7232	6.8000e-004	0.0000	24.7401	

4.0 Operational Detail - Mobile

Placer Creek Apartments - Placer County APCD Air District, Annual

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	0.5901	4.0021	6.8845	0.0227	1.5968	0.0293	1.6260	0.4295	0.0277	0.4572	0.0000	2,080.418	2,080.418	0.0912	0.0000	2,082.697
Unmitigated	0.5950	4.0475	6.9891	0.0231	1.6294	0.0298	1.6592	0.4383	0.0282	0.4665	0.0000	2,118.660	2,118.660	0.0922	0.0000	2,120.965

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,528.88	1,661.12	1408.24	4,384,289	4,296,603
Total	1,528.88	1,661.12	1,408.24	4,384,289	4,296,603

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Placer Creek Apartments - Placer County APCD Air District, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.483320	0.042482	0.220179	0.137288	0.028029	0.006922	0.026094	0.044447	0.001489	0.001255	0.006257	0.000793	0.001444

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	201.1994	201.1994	0.0142	2.9400e-003	202.4325
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	208.4817	208.4817	0.0147	3.0500e-003	209.7594
NaturalGas Mitigated	0.0156	0.1333	0.0567	8.5000e-004			0.0108	0.0108		0.0108	0.0108	154.3269	154.3269	2.9600e-003	2.8300e-003	155.2439
NaturalGas Unmitigated	0.0204	0.1739	0.0740	1.1100e-003			0.0141	0.0141		0.0141	0.0141	201.4060	201.4060	3.8600e-003	3.6900e-003	202.6029

Placer Creek Apartments - Placer County APCD Air District, Annual

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	3.77421e+006	0.0204	0.1739	0.0740	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	201.4060	201.4060	3.8600e-003	3.6900e-003	202.6029
Total		0.0204	0.1739	0.0740	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	201.4060	201.4060	3.8600e-003	3.6900e-003	202.6029

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	2.89198e+006	0.0156	0.1333	0.0567	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	154.3269	154.3269	2.9600e-003	2.8300e-003	155.2439
Total		0.0156	0.1333	0.0567	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	154.3269	154.3269	2.9600e-003	2.8300e-003	155.2439

Placer Creek Apartments - Placer County APCD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.1209e +006	208.4817	0.0147	3.0500e-003	209.7594
Total		208.4817	0.0147	3.0500e-003	209.7594

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.08174e +006	201.1994	0.0142	2.9400e-003	202.4325
Total		201.1994	0.0142	2.9400e-003	202.4325

6.0 Area Detail**6.1 Mitigation Measures Area**

Placer Creek Apartments - Placer County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Mitigated	1.3408	0.0564	3.8786	7.1000e-003		0.3598	0.3598		0.3598	0.3598	46.8956	4.3892	51.2848	0.2220	3.0000e-005	56.8439	
Unmitigated	1.3408	0.0564	3.8786	7.1000e-003		0.3598	0.3598		0.3598	0.3598	46.8956	4.3892	51.2848	0.2220	3.0000e-005	56.8439	

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	0.1452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.9061					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	0.2366	0.0364	2.1475	7.0100e-003		0.3503	0.3503		0.3503	0.3503	46.8956	1.5753	48.4709	0.2193	3.0000e-005	53.9609	
Landscaping	0.0530	0.0201	1.7312	9.0000e-005		9.4900e-003	9.4900e-003		9.4900e-003	9.4900e-003	0.0000	2.8139	2.8139	2.7600e-003	0.0000	2.8829	
Total	1.3408	0.0564	3.8786	7.1000e-003		0.3598	0.3598		0.3598	0.3598	46.8956	4.3892	51.2848	0.2220	3.0000e-005	56.8439	

Placer Creek Apartments - Placer County APCD Air District, Annual

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1452					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9061					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2366	0.0364	2.1475	7.0100e-003		0.3503	0.3503		0.3503	0.3503	46.8956	1.5753	48.4709	0.2193	3.0000e-005	53.9609
Landscaping	0.0530	0.0201	1.7312	9.0000e-005		9.4900e-003	9.4900e-003		9.4900e-003	9.4900e-003	0.0000	2.8139	2.8139	2.7600e-003	0.0000	2.8829
Total	1.3408	0.0564	3.8786	7.1000e-003		0.3598	0.3598		0.3598	0.3598	46.8956	4.3892	51.2848	0.2220	3.0000e-005	56.8439

7.0 Water Detail**7.1 Mitigation Measures Water**

Placer Creek Apartments - Placer County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	26.2119	0.4941	0.0119	42.1226
Unmitigated	26.2119	0.4941	0.0119	42.1226

7.2 Water by Land Use**Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	15.1157 / 9.52948	26.2119	0.4941	0.0119	42.1226
Total		26.2119	0.4941	0.0119	42.1226

Placer Creek Apartments - Placer County APCD Air District, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	15.1157 / 9.52948	26.2119	0.4941	0.0119	42.1226
Total		26.2119	0.4941	0.0119	42.1226

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	21.6632	1.2803	0.0000	53.6697
Unmitigated	21.6632	1.2803	0.0000	53.6697

Placer Creek Apartments - Placer County APCD Air District, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	106.72	21.6632	1.2803	0.0000	53.6697
Total		21.6632	1.2803	0.0000	53.6697

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	106.72	21.6632	1.2803	0.0000	53.6697
Total		21.6632	1.2803	0.0000	53.6697

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Placer Creek Apartments - Placer County APCD Air District, Annual

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

Placer Creek Apartments

Placer County APCD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	4.50800E-002	3.07710E-001	2.99930E-001	4.80000E-004	2.21300E-002	2.21300E-002	0.00000E+000	4.14904E+001	4.14904E+001	3.65000E-003	0.00000E+000	4.15818E+001
Cranes	7.52000E-002	8.97200E-001	3.38150E-001	8.20000E-004	3.83500E-002	3.52900E-002	0.00000E+000	7.41315E+001	7.41315E+001	2.33100E-002	0.00000E+000	7.47143E+001
Excavators	6.07000E-003	6.50100E-002	6.87900E-002	1.10000E-004	3.15000E-003	2.90000E-003	0.00000E+000	9.89855E+000	9.89855E+000	3.08000E-003	0.00000E+000	9.97559E+000
Forklifts	8.12800E-002	7.22830E-001	5.85260E-001	7.40000E-004	5.66600E-002	5.21300E-002	0.00000E+000	6.73281E+001	6.73281E+001	2.11700E-002	0.00000E+000	6.78574E+001
Generator Sets	7.58700E-002	6.34200E-001	6.06460E-001	1.07000E-003	3.88900E-002	3.88900E-002	0.00000E+000	9.18462E+001	9.18462E+001	6.12000E-003	0.00000E+000	9.19992E+001
Graders	5.46000E-003	7.48400E-002	2.01000E-002	7.00000E-005	2.43000E-003	2.24000E-003	0.00000E+000	6.38143E+000	6.38143E+000	1.99000E-003	0.00000E+000	6.43109E+000
Pavers	1.96000E-003	2.16500E-002	1.75600E-002	3.00000E-005	1.06000E-003	9.70000E-004	0.00000E+000	2.57531E+000	2.57531E+000	8.00000E-004	0.00000E+000	2.59536E+000
Paving Equipment	1.43000E-003	1.59500E-002	1.52200E-002	2.00000E-005	7.80000E-004	7.20000E-004	0.00000E+000	2.23170E+000	2.23170E+000	6.90000E-004	0.00000E+000	2.24907E+000
Rollers	1.55000E-003	1.49600E-002	1.16100E-002	2.00000E-005	1.03000E-003	9.50000E-004	0.00000E+000	1.43647E+000	1.43647E+000	4.50000E-004	0.00000E+000	1.44765E+000
Rubber Tired Dozers	1.74900E-002	1.88400E-001	6.56500E-002	1.30000E-004	9.16000E-003	8.43000E-003	0.00000E+000	1.17050E+001	1.17050E+001	3.64000E-003	0.00000E+000	1.17961E+001
Scrapers	2.40900E-002	2.98020E-001	1.84520E-001	3.20000E-004	1.17500E-002	1.08100E-002	0.00000E+000	2.90488E+001	2.90488E+001	9.04000E-003	0.00000E+000	2.92748E+001
Tractors/Loaders/Backhoes	1.11780E-001	1.11447E+000	1.05073E+000	1.41000E-003	7.64000E-002	7.02900E-002	0.00000E+000	1.27425E+002	1.27425E+002	4.00500E-002	0.00000E+000	1.28426E+002
Welders	6.60100E-002	2.67430E-001	2.96800E-001	4.20000E-004	1.70400E-002	1.70400E-002	0.00000E+000	3.05859E+001	3.05859E+001	5.39000E-003	0.00000E+000	3.07207E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	4.50800E-002	3.07700E-001	2.99930E-001	4.80000E-004	2.21300E-002	2.21300E-002	0.00000E+000	4.14904E+001	4.14904E+001	3.65000E-003	0.00000E+000	4.15817E+001	
Cranes	7.52000E-002	8.97200E-001	3.38150E-001	8.20000E-004	3.83500E-002	3.52900E-002	0.00000E+000	7.41314E+001	7.41314E+001	2.33100E-002	0.00000E+000	7.47142E+001	
Excavators	6.07000E-003	6.50100E-002	6.87900E-002	1.10000E-004	3.15000E-003	2.90000E-003	0.00000E+000	9.89854E+000	9.89854E+000	3.08000E-003	0.00000E+000	9.97558E+000	
Forklifts	8.12800E-002	7.22830E-001	5.85260E-001	7.40000E-004	5.66600E-002	5.21300E-002	0.00000E+000	6.73280E+001	6.73280E+001	2.11700E-002	0.00000E+000	6.78573E+001	
Generator Sets	7.58700E-002	6.34200E-001	6.06460E-001	1.07000E-003	3.88900E-002	3.88900E-002	0.00000E+000	9.18461E+001	9.18461E+001	6.12000E-003	0.00000E+000	9.19991E+001	
Graders	5.46000E-003	7.48400E-002	2.01000E-002	7.00000E-005	2.43000E-003	2.24000E-003	0.00000E+000	6.38142E+000	6.38142E+000	1.99000E-003	0.00000E+000	6.43109E+000	
Pavers	1.96000E-003	2.16500E-002	1.75600E-002	3.00000E-005	1.06000E-003	9.70000E-004	0.00000E+000	2.57531E+000	2.57531E+000	8.00000E-004	0.00000E+000	2.59535E+000	
Paving Equipment	1.43000E-003	1.59500E-002	1.52200E-002	2.00000E-005	7.80000E-004	7.20000E-004	0.00000E+000	2.23170E+000	2.23170E+000	6.90000E-004	0.00000E+000	2.24907E+000	
Rollers	1.55000E-003	1.49600E-002	1.16100E-002	2.00000E-005	1.03000E-003	9.50000E-004	0.00000E+000	1.43647E+000	1.43647E+000	4.50000E-004	0.00000E+000	1.44765E+000	
Rubber Tired Dozers	1.74900E-002	1.88400E-001	6.56500E-002	1.30000E-004	9.16000E-003	8.43000E-003	0.00000E+000	1.17050E+001	1.17050E+001	3.64000E-003	0.00000E+000	1.17961E+001	
Scrapers	2.40900E-002	2.98020E-001	1.84520E-001	3.20000E-004	1.17500E-002	1.08100E-002	0.00000E+000	2.90487E+001	2.90487E+001	9.04000E-003	0.00000E+000	2.92748E+001	
Tractors/Loaders/Buckets	1.11780E-001	1.11446E+000	1.05073E+000	1.41000E-003	7.64000E-002	7.02900E-002	0.00000E+000	1.27425E+002	1.27425E+002	4.00500E-002	0.00000E+000	1.28426E+002	
Welders	6.60100E-002	2.67430E-001	2.96800E-001	4.20000E-004	1.70400E-002	1.70400E-002	0.00000E+000	3.05858E+001	3.05858E+001	5.39000E-003	0.00000E+000	3.07207E+001	

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	3.24981E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20510E-006	1.20510E-006	0.00000E+000	0.00000E+000	1.20245E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21406E-006	1.21406E-006	0.00000E+000	0.00000E+000	1.20459E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.01025E-006	1.01025E-006	0.00000E+000	0.00000E+000	1.00245E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18821E-006	1.18821E-006	0.00000E+000	0.00000E+000	1.17894E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19765E-006	1.19765E-006	0.00000E+000	0.00000E+000	1.19566E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.56705E-006	1.56705E-006	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.85303E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.54333E-007	8.54333E-007	0.00000E+000	0.00000E+000	8.47735E-007
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.37700E-006	1.37700E-006	0.00000E+000	0.00000E+000	1.02477E-006
Tractors/Loaders/Buckets/hoes	0.00000E+000	8.97287E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17716E-006	1.17716E-006	0.00000E+000	0.00000E+000	1.16799E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.80846E-007	9.80846E-007	0.00000E+000	0.00000E+000	1.30205E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)

No	Unpaved Road Mitigation	Moisture Content %	Vehicle Speed (mph)		
No	Clean Paved Road	% PM Reduction	0.00		

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.04	0.01	0.04	0.01	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.24	0.06	0.24	0.06	0.00	0.00
Grading	Fugitive Dust	0.07	0.04	0.07	0.04	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.03	0.01	0.03	0.01	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
	Percent Reduction											
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	3.49	3.49	3.46	3.61	3.49	
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.82	1.12	1.50	1.82	1.81	1.81	0.00	1.80	1.80	1.13	0.00	1.80
Natural Gas	23.39	23.37	23.36	23.42	23.40	23.40	0.00	23.38	23.38	23.32	23.31	23.38
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Low Density Suburban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

Yes	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off-Site	
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.02		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.02		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	3.00		
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	5.00		
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.02		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	:Only Natural Gas Hearth	
No	:No Hearth	
No	:Use Low VOC Cleaning Supplies	
No	:Use Low VOC Paint (Residential Interior)	100.00
No	:Use Low VOC Paint (Residential Exterior)	100.00
No	:Use Low VOC Paint (Non-residential Interior)	100.00
No	:Use Low VOC Paint (Non-residential Exterior)	100.00
No	:Use Low VOC Paint (Parking)	100.00
No	:% Electric Lawnmower	
No	:% Electric Leafblower	
No	:% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	:Exceed Title 24	28.00	
No	:Install High Efficiency Lighting	0.00	
No	:On-site Renewable	0.00	0.00

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value

Institute Recycling and Composting Services
Percent Reduction in Waste Disposed

Placer Creek Apartments - Placer County APCD Air District, Summary Report

Placer Creek Apartments
Placer County APCD, Summary Report

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	232.00	Dwelling Unit	14.50	232,000.00	664

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	410.05	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics - CO2 intensity factor adjusted per PG&E's anticipated progress towards statewide RPS reduction goals

Land Use - based on info from applicant

Construction Phase - based on info from applicant

Grading - project would disturb approximately 10 acres

Architectural Coating -

Woodstoves - according to info from applicant

Mobile Land Use Mitigation -

Energy Mitigation -

Placer Creek Apartments - Placer County APCD Air District, Summary Report

2.0 Peak Daily Emissions

Peak Daily Construction Emissions

Peak Daily Construction Emissions

		Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
Year	Phase	lb/day											
2018	Site Preparation	4.6469 S	48.2607 W	23.1293 S	0.0396 S	20.7920 S	12.3416 S	4.6469 S	48.2607 W	23.1293 S	0.0396 S	20.7920 S	12.3416 S
2018	Grading	5.1836 S	59.5907 W	35.8149 S	0.0638 S	9.3262 S	5.8324 S	5.1836 S	59.5907 W	35.8149 S	0.0638 S	9.3262 S	5.8324 S
2018	Building Construction	3.5832 S	27.3684 W	24.3219 S	0.0490 S	3.0744 W	1.8542 W	3.5832 S	27.3684 W	24.3219 S	0.0490 S	3.0744 W	1.8542 W
2019	Building Construction	3.1774 S	24.7919 W	23.2144 S	0.0485 S	2.8598 W	1.6525 W	3.1774 S	24.7919 W	23.2144 S	0.0485 S	2.8598 W	1.6525 W
2018	Paving	1.7138 S	17.5726 W	15.3406 S	0.0241 S	1.0802 S	0.9131 S	1.7138 S	17.5726 W	15.3406 S	0.0241 S	1.0802 S	0.9131 S
2018	Architectural Coating	9.3864 S	2.1194 W	3.0513 S	5.8600e-003 S	0.4234 S	0.2241 S	9.3864 S	2.1194 W	3.0513 S	5.8600e-003 S	0.4234 S	0.2241 S
2019	Architectural Coating	9.3398 S	1.9352 W	2.9168 S	5.7700e-003 S	0.4016 S	0.2023 S	9.3398 S	1.9352 W	2.9168 S	5.7700e-003 S	0.4016 S	0.2023 S
	Peak Daily Total	9.3864 S	59.5907 W	35.8149 S	0.0638 S	20.7920 S	12.3416 S	9.3864 S	59.5907 W	35.8149 S	0.0638 S	20.7920 S	12.3416 S
	Air District Threshold												
	Exceed Significance?												

Peak Daily Operational Emissions

Peak Daily Operational Emissions

Placer Creek Apartments - Placer County APCD Air District, Summary Report

3.0 Annual GHG Emissions

Annual GHG

Annual GHG