

# **Appendix AQ-1**

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**Air Quality Mitigation Plan and  
Greenhouse Gas Reduction Plan**



**REVISION 2 - UPDATED AIR QUALITY MITIGATION  
PLAN AND GREENHOUSE GAS REDUCTION  
PLAN FOR THE PROPOSED  
JACKSON TOWNSHIP SPECIFIC PLAN  
KLF PROJECT #20192356.001A**

**MAY 23, 2019**

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AND GREENHOUSE GAS REDUCTION PLAN  
FOR THE PROPOSED  
JACKSON TOWNSHIP SPECIFIC PLAN**

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## 1 EXECUTIVE SUMMARY

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### 1.1 INTRODUCTION AND METHODOLOGY

Tsakopoulos Investments (the Applicant) is proposing the Jackson Township Specific Plan (Jackson) encompassing approximately 1,391 acres of land located in southeastern Sacramento County, east of Excelsior Road, north of Jackson Highway, and west of Eagles Nest Road. The proposed project is located approximately 10 miles southeast of the Sacramento central business district. The Jackson project is a mixed-use development that includes a mix of different housing types and commercial and retail land uses. Two of the project alternatives are evaluated in this report: the California Environmental Quality Act (CEQA) Original Project and the CEQA Alternative 2. Both Alternatives slightly change the land uses and acreage dedicated to each use, but both consist of approximately 1,391 acres total.

The Sacramento Metropolitan Air Quality Management District (SMAQMD) recommends that projects that emit more than 65 pounds per day (lb/day) of nitrogen oxides (NO<sub>x</sub>) or reactive organic gases (ROG) and that are outside of the State Implementation Plan (SIP) reduce emissions by 35 percent from business as usual (BAU). The reductions are achieved through a series of mitigation measures and documented in an Air Quality Mitigation Plan (AQMP).

SMAQMD also requires a project that will emit a significant amount of greenhouse gases (GHG) to reduce GHG emissions. SMAQMD Guidance states that project-related GHG emissions should be documented in a Greenhouse Gas Reduction Plan (GHGRP) and the GHGRP should document how the proposed project meets the GHG reduction strategies of the jurisdiction within which the project is located. The Sacramento County Planning and Environmental Review Division (PER) GHG reduction strategy, which applies to Jackson, requires a project to meet certain GHG thresholds, and consistency with those thresholds is demonstrated in the GHGRP.

In August 2015, an AQMP and GHGRP were prepared. The 2015 AQMP/GHGRP was based on then-current emission models and Guidance and was for the Jackson project-alone alternatives. Since that time, there have been new models, data, and Guidance published, and PER wishes to also evaluate the CEQA cumulative project alternatives. Thus this Updated AQMP/GHGRP has been prepared. Project-alone alternatives, referred to herein as Project-Related vehicle miles

traveled (VMT), are based on an assumption that Jackson is the only project developed in the area. Cumulative alternatives (Cumulative VMT) are based on a more realistic assumption that there will be other projects developed in the area, and thus the VMT associated with Jackson is less because drivers can make combined trips (e.g., stopping by a supermarket on the way home from work).

In February 2019 an updated AQMP/GHGRP was submitted to PER and the SMAQMD and was based on the following current (as of January 2019) models, data, Guidance, and project alternatives:

- Addition of two CEQA Cumulative project alternatives: the Original Project and Alternative 2. (The previous AQMP/GHGRP focused on Jackson-alone alternatives).
- A 2017 Traffic Study prepared for the Jackson project. (The previous AQMP/GHGRP was based on a 2014 Regional Traffic Study).
- California Emissions Estimator Model (CalEEMod), Version 2016.3.2. (The previous model was CalEEMod Version 2013.2.2)
- Incorporation of the California Energy Commission (CEC) 2019 Building Energy Standards. (The previous AQMP/GHGRP incorporated the 2013 Standards).
- Version 4.0 of SMAQMD Guidance for ROG and NO<sub>x</sub> reductions. (The previous AQMP was based on Versions 3.0 and 3.2).
- Addition of a discussion regarding particulate matter (PM) emission reductions as requested in SMAQMD Guidance Version 4.0. (Previous SMAQMD Guidance did not address PM emissions).
- Use of EMFAC2017 to calculate mobile source GHG emissions. (The previous GHGRP used CalEEMod for both mobile and non-mobile source GHG emissions).
- Updated draft GHG Thresholds published by PER for 2030 and extrapolated to 2035. (The previous GHGRP used only the promulgated 2020 thresholds).
- Although not subject to AQMP and GHGRP thresholds, addition of a discussion of construction emissions. (The previous AQMP/GHGRP did not discuss construction emissions).

In March 2019, the SMAQMD requested that the applicant submit a revised AQMP/GHGRP (Revision 1) to address the following changes:

- Add CalEEMod reports for daily operational baseline emissions (added to Appendix G).



- Review the CalEEMod default construction equipment and usage values for reasonableness (discussed in Section 7).
- Add individual transportation mitigation measure identification numbers (per CAPCOA GHG Guidelines<sup>1</sup>) to the list of mitigation measures incorporated into the project (shown in Sections 4, 5, and 6).
- Remove proposed mitigation measures for electric landscaping equipment due to enforcement concerns and remove the proposed mitigation measure for reduced natural gas hearths (removed from tables and discussion in Sections 1, 4, and 5). The hearths mitigation measure was removed because SMAQMD Guidance Version 4.0 does not allow credit for reduced or no hearths.
- Review two proposed mitigation measures to ensure they do not exceed CAPCOA GHG Guidelines percentage reduction caps (discussed in Section 4).

Also in March 2019, PER staff requested two additional changes:

- Add a table comparing Project-Related VMT to Cumulative VMT emissions (shown in Tables 1-3a and 1-3b).
- Match the explanation of how draft extrapolated GHG thresholds were calculated to the description used in the Mather South EIR (Section 5.2).

Revision 1 to the February 20, 2019 AQMP/GHGRP (Revision 1 was dated April 16, 2019) incorporated the changes requested in March 2019.

In May 2019, SMAQMD requested further changes as follows:

- Clarify the basis for removing the reduced natural gas hearths mitigation measure (discussed above).
- Categorize Jackson as a “suburban center” project instead of as a “compact infill” project as defined in the CAPCOA Guidelines (discussed in Section 4.2).
- Provide more detail regarding the basis for the VMT reduction achieved through the Enhanced Transit Program (discussed in Sections 4.2 and 5.3).
- Confirm that the Enhanced Transit Program is funded through a non-revocable funding mechanism (discussed in Section 4.2).

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<sup>1</sup> *Quantifying Greenhouse Gas Mitigation Measures*, August 2010, CAPCOA. Available at: <http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf>.

- If a VMT reduction credit is taken for the Transportation Management Association (TMA) Membership, provide additional detail regarding the amount of VMT reduced (discussed in Sections 4.1, 5.1 and 6).
- Remove the proposed Pedestrian Network (SDT-1) and Traffic Calming (SDT-2) mitigation measures as the amount of VMT reduction from the Traffic Study exceeds the CAPCOA global caps for a suburban center project (discussed in Section 4.2).

This Revision 2 to the April 2019 Revision 1 AQMP/GHGRP incorporates the changes requested by SMAQMD in May 2019.

This AQMP/GHGRP evaluates four scenarios using current data and models; and construction emissions are also addressed. The four scenarios are:

1. Jackson Project-Related VMT for the CEQA Original Project
2. Jackson Project-Related VMT for the CEQA Alternative 2
3. Jackson Cumulative VMT for the CEQA Original Project
4. Jackson Cumulative VMT for the CEQA Alternative 2

The proposed land uses for the Jackson Project-Related scenarios are the same as for the Cumulative scenarios; only the VMT is different. Throughout this document, the CEQA Original Project will be referred to as “Original Project” and CEQA Alternative 2 as “Alternative 2”.

As was the case in 2015, this document combines the AQMP and GHGRP into a single document because for the Jackson project, the NO<sub>x</sub>, ROG, PM, and GHG emissions are all related to the same sources. Only operational, not construction, emissions are considered for the AQMP and GHGRP; but potential construction emissions are presented herein as well. Kleinfelder, Inc. prepared this AQMP and GHGRP consistent with SMAQMD Guidance and PER direction. PER staff reviewed the calculations, methodology, and document.

To estimate emissions of NO<sub>x</sub>, ROG, PM, and GHG, Kleinfelder used the current (as of January 2019) version of the California Emissions Estimator Model (CalEEMod, Version 2016.3.2). The CalEEMod model uses details regarding specific land uses (e.g., strip mall) and various additional parameters (e.g., vehicle trip frequency and length associated with a land use and emission factors for vehicles) to calculate peak daily (pounds per day, lb/day) and annual emissions (tons per year, tpy). AQMP Guidance Version 4.0 focuses on NO<sub>x</sub> and ROG from annual transportation (annual mobile-only) emissions and PM emissions from all sectors. The GHGRP focuses on

annual emissions in the mobile (transportation), commercial/industrial, and residential sectors as well as total project emissions.

Kleinfelder ran the CalEEMod with detailed land uses for the Original Project and Alternative 2. In order to run CalEEMod, detailed land uses, including parking lot areas, were input. The detailed land uses entered into CalEEMod are shown in Appendices A and B and are discussed in Section 2. The Applicant provided the land use detail. One of the key inputs in CalEEMod is the amount of traffic (vehicle miles traveled, VMT) associated with a project. The CalEEMod model contains default VMT values calculated from local district provided information and/or California statewide averages based on typical projects, (i.e., business as usual, BAU).

For Jackson, PER completed a comprehensive Traffic Study that calculated the amount of traffic associated with the Jackson project and other nearby projects. The Traffic Study analyzed effects of Jackson and the other projects on a regional Project-Related and on a regional Cumulative basis, starting with the existing conditions and then adding Jackson and the other projects. The Traffic Study also accounted for the large number of design features incorporated into Jackson that greatly reduces the amount of VMT. These measures include, but are not limited to, the location, density/mix of land uses, internal proximity, multi-modal efficiency, and transit supportive measures. Accordingly, in order to estimate emissions for the Jackson project as designed and planned, Kleinfelder used the incremental VMT calculated by the Traffic Study provided by PER for Jackson in the CalEEMod runs. Kleinfelder adjusted the default annual VMT calculated by CalEEMod such that the annual VMT matched the Traffic Study. This results in an emissions estimate for the Jackson project taking into account the design features that reduce VMT. The incremental VMT associated with the project is shown in Appendix C and the emission calculations methodology and results are discussed in Section 3.

Sacramento County does not use CalEEMod for transportation-related greenhouse gas (GHG) emissions because it cannot adequately capture the trip redistribution of a project, as it does not take into account regional travel dynamics. Accordingly, it is the County's practice to calculate emissions directly from the VMT data in the traffic study using the most recent California EMFAC model, which (as of January 2019) is EMFAC2017. Therefore, GHG emissions were calculated with EMFAC2017 for both the Project-Related and the Cumulative VMT scenarios. The calculations are shown in Appendix D.

Kleinfelder calculated annual, summer peak daily, and winter peak daily operational emissions. The results are shown in Section 3 and the CalEEMod output reports are in Appendices E and F. BAU annual, summer peak daily, and winter peak daily operational emissions were also calculated. The BAU emissions are discussed in Sections 3, 4, 5, and 6 and CalEEMod output reports for the BAU scenario are shown in Appendix G. Construction emissions were calculated and discussed in Section 7 with the CalEEMod reports shown in Appendix J.

CalEEMod Version 2016.3.2 only includes the California Energy Commission (CEC) building energy efficiency standards required as of 2016. CEC recently published revised building energy standards (the 2019 standards) that result in an energy reduction for residential and commercial buildings of 7 and 30 percent, respectively. The 2019 standards also require that photovoltaic generation (solar) be installed on residential buildings sufficient to offset 100 percent of the annual electrical energy use of that building. Since the Jackson project includes both residential and commercial buildings, a project-specific overall energy reduction effectiveness above the 2016 standards had to be calculated and input into CalEEMod. The methodology is discussed in Section 3 and the calculations shown in Appendix H. The energy reduction effectiveness values of Appendix H were applied to the BAU, Original Project, and Alternative 2 emission estimates.

Kleinfelder also used the CalEEMod output reports and EMFAC2017 transportation results to calculate the GHG thresholds as shown in Appendix I. The BAU scenario uses the same land use detail as the planned and designed project but uses typical VMT instead of the greatly reduced VMT associated with the project. Table 1-1 shows the default CalEEMod VMT compared to the VMT associated with the four project scenarios. The Project-Related VMT is 47 to 49 percent less than BAU and the Cumulative VMT is 57 to 59 percent less than BAU. (Dividing the difference between the default VMT and project VMT by the default VMT value calculates the percent reduction.)

**Table 1-1  
CalEEMod Default VMT Compared to Project VMT**

<b>Alternative</b>	<b>CalEEMod BAU Annual VMT (miles/yr)</b>	<b>Project-Related VMT (miles/yr)</b>	<b>Percent Reduction of Project-Related VMT Compared to BAU</b>	<b>Cumulative VMT (miles/yr)</b>	<b>Percent Reduction of Cumulative VMT Compared to BAU</b>
Original Project	238,448,655	126,508,800	47%	102,298,134	57%
Alternative 2	222,962,916	113,225,078	49%	90,726,317	59%

Note that the Traffic Study and CalEEMod modeled adjusted VMT shown in the CalEEMod runs do not match exactly, as discussed in Section 3. The above Project-Related and Cumulative VMT values are the values from the Traffic Study.

## 1.2 OPERATIONAL ROG AND NO<sub>x</sub> MOBILE EMISSIONS

For the AQMP, the annual NO<sub>x</sub> and ROG mobile-only emissions for the Jackson project as designed and planned were compared to the annual mobile-only emissions that would occur under the BAU scenario. Tables 1-2 and 1-3 show the mobile-only emissions under the Project-Related and Cumulative VMT scenarios in terms of annual tons per year (tpy). These tables show that the percent reductions for ROG for the Alternative 2 Cumulative VMT scenario is greater than the SMAQMD 35 percent reduction target, while the percent reductions for the other scenarios are less than the SMAQMD target. However, the Applicant is proposing additional mitigation as discussed in Sections 1.6, 4.3, and 5.4 in order to achieve the 35 percent reduction target.

The data in Tables 1-2 and 1-3 can also be used to compare ROG and NO<sub>x</sub> mobile-only emissions for the Project-Related VMT scenarios to the Cumulative VMT scenarios. The comparison is shown in Tables 1-3a and 1-3b. The Cumulative VMT scenario mobile-only emissions are from 10 to 20 percent less than the Project-Related VMT scenario mobile-only emissions.

**Table 1-2  
Comparison of BAU and Jackson  
ROG and NO<sub>x</sub> Annual Mobile-Only Emissions for Project-Related VMT**

<b>Alternative</b>	<b>ROG</b>	<b>NO<sub>x</sub></b>
BAU Original Project Annual Mobile-Only Emissions	18.7 tpy	97.9 tpy
Project-Related VMT Original Project Annual Mobile-Only Emissions	14.7 tpy	77.8 tpy
<b>Percent Reduction</b>	<b>21.4 %</b>	<b>20.5 %</b>
BAU Alternative 2 Annual Mobile-Only Emissions	17.8 tpy	93.6 tpy
Project-Related VMT Alternative 2 Annual Mobile-Only Emissions	13.5 tpy	71.4 tpy
<b>Percent Reduction</b>	<b>24.2 %</b>	<b>23.7 %</b>

**Table 1-3  
Comparison of BAU and Jackson  
ROG and NO<sub>x</sub> Annual Mobile-Only Emissions for Cumulative VMT**

<b>Alternative</b>	<b>ROG</b>	<b>NO<sub>x</sub></b>
BAU Original Project Annual Mobile-Only Emissions	18.7 tpy	97.9 tpy
Cumulative VMT Original Project Annual Mobile-Only Emissions	12.9 tpy	68.3 tpy
<b>Percent Reduction</b>	<b>31.0 %</b>	<b>30.2 %</b>
BAU Alternative 2 Annual Mobile-Only Emissions	17.8 tpy	93.6 tpy
Cumulative VMT Alternative 2 Annual Mobile-Only Emissions	11.5 tpy	61.1 tpy
<b>Percent Reduction</b>	<b>35.4 %</b>	<b>34.7 %</b>

**Table 1-3a**  
**Comparison of Cumulative VMT to Project-Related VMT**  
**Mobile-Only Annual Emissions for the Original Project**

<b>Scenario</b>	<b>VMT (miles/yr)</b>	<b>ROG Emissions (tpy)</b>	<b>NO<sub>x</sub> Emissions (tpy)</b>	<b>CO<sub>2</sub>e Emissions (MT/yr)</b>
Project-Related VMT Scenario for the Original Project	126,508,800	14.7	77.8	58,944
Cumulative VMT Scenario for the Original Project	102,298,134	12.9	68.3	52,881
Difference between Project-Related and Cumulative Scenarios	- 24,210,666	- 1.8	- 9.5	- 6,063
Percent Reduction Cumulative from Project-Related	<b>- 19.1%</b>	<b>- 12.2%</b>	<b>- 12.2%</b>	<b>- 10.3%</b>

**Table 1-3b**  
**Comparison of Cumulative VMT to Project-Related VMT**  
**Mobile-Only Annual Emissions for Alternative 2 Prior to Additional Mitigation**

<b>Scenario</b>	<b>VMT (miles/yr)</b>	<b>ROG Emissions (tpy)</b>	<b>NO<sub>x</sub> Emissions (tpy)</b>	<b>CO<sub>2</sub>e Emissions (MT/yr)</b>
Project-Related VMT Scenario for Alternative 2	113,225,078	13.5	71.4	52,701
Cumulative VMT Scenario for Alternative 2	90,726,317	11.5	61.1	45,149
Difference between Project-Related and Cumulative Scenarios	- 22,498,761	- 2.0	- 10.3	- 7,552
Percent Reduction Cumulative from Project-Related	<b>- 19.9%</b>	<b>- 14.8%</b>	<b>- 14.4%</b>	<b>- 14.3%</b>

### 1.3 OPERATIONAL GHG EMISSIONS

For the GHGRP, Kleinfelder compared total annual emissions of carbon dioxide equivalent (CO<sub>2</sub>e) emissions for the project as designed and planned to the BAU emissions. CO<sub>2</sub>e accounts for the different global warming potentials (GWP) associated with individual GHG. Total GHG emissions include emissions from both mobile and non-mobile sources, including GHG associated with electrical energy use. The results are shown in Table 1-4 for the Project-Related and Cumulative VMT scenarios in terms of metric tons per year (MT/yr) CO<sub>2</sub>e. As discussed in Section 3, the values in Table 1-4 are derived from CalEEMod for non-mobile emissions plus EMFAC2017 for mobile emissions.

**Table 1-4  
Comparison of BAU and Jackson  
Total CO<sub>2</sub>e Annual Emissions for Project-Related VMT**

<b>Alternative</b>	<b>Total CO<sub>2</sub>e Under the Project-Related VMT Scenario</b>	<b>Total CO<sub>2</sub>e Under the Cumulative VMT Scenario</b>
BAU Original Project Annual CO <sub>2</sub> e Emissions	88,490 MT/yr	88,490 MT/yr
Original Project Annual CO <sub>2</sub> e Emissions	58,944 MT/yr	52,881 MT/yr
<b>Percent Reduction</b>	<b>33.3 %</b>	<b>40.2 %</b>
BAU Alternative 2 Annual CO <sub>2</sub> e Emissions	79,532 MT/yr	79,532 MT/yr
Alternative 2 Annual CO <sub>2</sub> e Emissions	52,701 MT/yr	45,149 MT/yr
<b>Percent Reduction</b>	<b>33.7 %</b>	<b>43.2 %</b>

The comparison showed that the Original Project CO<sub>2</sub>e emissions as planned and designed are 33 to 40 percent less than BAU emissions and Alternative 2 CO<sub>2</sub>e emissions as planned and designed are 34 to 43 percent less than BAU. The percent reductions in total CO<sub>2</sub>e emissions are not as great as the percent reduction in VMT because total CO<sub>2</sub>e emissions include non-mobile emissions that do not change between BAU and the proposed project.

The CO<sub>2</sub>e emission for the Original Project and Alternative 2 were compared to the draft 2030 GHG Thresholds extrapolated to 2035 as discussed in Section 5. The results are shown in Tables 1-5 and 1-6 for the Project-Related VMT scenarios and Tables 1-7 and 1-8 for the Cumulative VMT scenarios.



**Table 1-5  
Original Project with Project-Related VMT Scenario GHG Emission Thresholds**

<b>Emission Sector</b>	<b>Total CO<sub>2</sub>e (MT/yr)</b>	<b>Persons/ Commercial Square Footage/ Truck VMT/100</b>	<b>Original Project Emissions</b>	<b>Sacramento County Draft Extrapolated 2035 Thresholds</b>	<b>Threshold Units</b>
Residential Energy	9,095	16,218	0.56	0.65	MT/capita
Residential Energy Plus Schools	9,439	16,218	0.58	0.65	MT/capita
Commercial/Industrial Energy	3,406	1,996,100	1.71	3.81	MT/Kft <sup>2</sup>
Transportation	37,603	16,218	2.32	1.30	MT/capita
Trucks	2,632	88,556.2	0.03	0.07	MT/100 VMT

**Table 1-6  
Alternative 2 Project-Related VMT Scenario GHG Emission Thresholds**

<b>Emission Sector</b>	<b>Total CO<sub>2</sub>e (MT/yr)</b>	<b>Persons/ Commercial Square Footage/ Truck VMT/100</b>	<b>Alternative 2 Emissions</b>	<b>Sacramento County Draft Extrapolated 2035 Thresholds</b>	<b>Threshold Units</b>
Residential Energy	7,959	15,022	0.53	0.65	MT/capita
Residential Energy Plus Schools	8,307	15,022	0.55	0.65	MT/capita
Commercial/Industrial Energy	2,258	2,022,100	1.12	3.81	MT/Kft <sup>2</sup>
Transportation	35,957	15,022	2.39	1.30	MT/capita
Trucks	2,517	79,257.6	0.03	0.07	MT/100 VMT

**Table 1-7  
Original Project Cumulative VMT Scenario GHG Emission Thresholds**

<b>Emission Sector</b>	<b>Total CO<sub>2</sub>e (MT/yr)</b>	<b>Persons/ Commercial Square Footage/ Truck VMT/100</b>	<b>Original Project Emissions</b>	<b>Sacramento County Draft Extrapolated 2035 Thresholds</b>	<b>Threshold Units</b>
Residential Energy	9,095	16,218	0.56	0.65	MT/capita
Residential Energy Plus Schools	9,439	16,218	0.58	0.65	MT/capita
Commercial/Industrial Energy	3,406	1,996,100	1.71	3.81	MT/Kft <sup>2</sup>
Transportation	31,540	16,218	1.94	1.30	MT/capita
Trucks	2,208	71,608.7	0.03	0.07	MT/100 VMT

**Table 1-8  
Alternative 2 Cumulative VMT Scenario GHG Emission Thresholds**

<b>Emission Sector</b>	<b>Total CO<sub>2</sub>e (MT/yr)</b>	<b>Persons/ Commercial Square Footage/ Truck VMT/100</b>	<b>Alternative 2 Emissions</b>	<b>Sacramento County Draft Extrapolated 2035 Thresholds</b>	<b>Threshold Units</b>
Residential Energy	7,959	15,022	0.53	0.65	MT/capita
Residential Energy Plus Schools	8,307	15,022	0.55	0.65	MT/capita
Commercial/Industrial Energy	2,258	2,022,100	1.12	3.81	MT/Kft <sup>2</sup>
Transportation	28,405	15,022	1.89	1.30	MT/capita
Trucks	1,988	63,508.4	0.03	0.07	MT/100 VMT

GHG emissions are all less than the draft 2035 thresholds except for per capita transportation. It is not surprising that the extrapolated draft 2035 per capita GHG transportation thresholds are not met, because they are based on the California statewide emission reduction target in 2050 of 80 percent reduction from 1990 emissions. In order to meet that target, there will have to be a very large electric vehicle penetration and/or other transportation changes that are not incorporated into the EMFAC2017 emission factors used to estimate 2035 emissions for the project.

The above tables show the extrapolated draft 2035 thresholds. The adopted 2020 thresholds (shown in Section 5) are much greater than the extrapolated draft 2035 thresholds. If the 2035 emissions were compared to the adopted 2020 thresholds, the emissions would all be much less than the adopted 2020 thresholds.

#### 1.4 OPERATIONAL PM EMISSIONS

Because there are no sources of operational PM emissions that are not also sources of NO<sub>x</sub>, ROG, and GHG, the planned and designed design features that greatly reduce NO<sub>x</sub>, ROG, and GHG will also greatly reduce potential PM emissions as discussed in Section 6. PM emissions under the Project-Related VMT scenario are shown in Table 1-9 and the Cumulative VMT scenario in Table 1-10 in terms of tons per year (tpy).

**Table 1-9  
Comparison of BAU and Project PM Annual Emissions for Project-Related VMT**

<b>Alternative</b>	<b>Fugitive PM<sub>10</sub> (tpy)</b>	<b>Exhaust PM<sub>10</sub> (tpy)</b>	<b>Total PM<sub>10</sub> (tpy)</b>	<b>Fugitive PM<sub>2.5</sub> (tpy)</b>	<b>Exhaust PM<sub>2.5</sub> (tpy)</b>	<b>Total PM<sub>2.5</sub> (tpy)</b>
BAU Original Project Annual Emissions	88.7	1.5	90.2	23.8	1.4	25.2
Project-Related VMT Original Project Annual Emissions	47.1	1.3	48.4	12.6	1.3	13.9
<b>Percent Reduction</b>	<b>46.9%</b>	<b>13.3%</b>	<b>46.3%</b>	<b>47.1%</b>	<b>7.1%</b>	<b>44.8%</b>
BAU Alternative 2 Annual Emissions	83.0	1.3	84.2	22.2	1.2	23.5
Project-Related VMT Alternative 2 Annual Emissions	42.2	1.1	43.2	11.3	1.1	12.4
<b>Percent Reduction</b>	<b>49.2%</b>	<b>15.4%</b>	<b>48.7%</b>	<b>49.1%</b>	<b>8.3%</b>	<b>47.2%</b>

Note that the total may not exactly equal the sum of fugitive plus exhaust emissions due to round off differences.

**Table 1-10  
Comparison of BAU and Jackson PM Annual Emissions for Cumulative VMT**

<b>Alternative</b>	<b>Fugitive PM<sub>10</sub> (tpy)</b>	<b>Exhaust PM<sub>10</sub> (tpy)</b>	<b>Total PM<sub>10</sub> (tpy)</b>	<b>Fugitive PM<sub>2.5</sub> (tpy)</b>	<b>Exhaust PM<sub>2.5</sub> (tpy)</b>	<b>Total PM<sub>2.5</sub> (tpy)</b>
BAU Original Project Annual Emissions	88.7	1.5	90.2	23.8	1.4	25.2
Cumulative VMT Original Project Annual Emissions	38.1	1.3	39.4	10.2	1.2	11.4
<b>Percent Reduction</b>	<b>57.0%</b>	<b>13.3%</b>	<b>56.3%</b>	<b>57.1%</b>	<b>14.3%</b>	<b>54.8%</b>
BAU Alternative 2 Annual Emissions	83.0	1.3	84.2	22.2	1.2	23.5
Cumulative VMT Alternative 2 Annual Emissions	33.8	1.1	34.9	9.0	1.0	10.1
<b>Percent Reduction</b>	<b>59.3%</b>	<b>15.4%</b>	<b>58.6%</b>	<b>59.5%</b>	<b>16.7%</b>	<b>57.0%</b>

Note that the total may not exactly equal the sum of fugitive plus exhaust emissions due to round off differences.

There are no thresholds for PM reductions, but the design features built into the proposed project result in a reduction of total PM emissions ranging from 45 to 59 percent. The large reduction in emissions of NO<sub>x</sub>, ROG, PM, and GHG emissions for the planned and designed project compared to BAU is the result of the large number of design features incorporated into the project that greatly reduces the VMT. These design features are discussed in Sections 4, 5 and 6 and include locating the project close to the Sacramento central business district, incorporating a high density of mixed use buildings, designing the project in a gridded street pattern with schools and parks located within the development, and incorporating multi-modal transportation systems. The multi-modal transportation systems include extensive bike and pedestrian paths, on-site transit center and

park and ride facilities, bus rapid transit subsidies, and assessments for regional transportation improvements, among other features as detailed in Sections 4, 5 and 6.

### 1.5 CONSTRUCTION EMISSIONS

Although not part of the AQMP or GHGRP, SMAQMD recommends that construction emissions of ROG, NO<sub>x</sub>, and PM emissions be quantified with CalEEMod if possible. To estimate construction emissions, CalEEMod was first run with default parameters and then the default parameters were adjusted as necessary to meet planned project constraints. The methodology is discussed in Section 7 and the results are shown in Table 1-11. The values shown in the table are the maximum annual and daily emissions during the 15-year construction period. The values come from construction CalEEMod runs shown in Appendix J. The emissions are compared to the current (as of January 2019) SMAQMD significance thresholds.

All of the emissions are less than thresholds except for daily NO<sub>x</sub>. However, as is the case for GHG emission estimates, the NO<sub>x</sub> construction emission estimates do not include NO<sub>x</sub> reductions that will be achieved over the next 15 years of construction through improvements in engines and other construction practices; and the estimates are based on default assumptions regarding equipment type, usage, and emissions. Prior to the actual start of construction, the Applicant will prepare a Construction NO<sub>x</sub> Mitigation Plan that details the actual planned construction activities, phasing, and equipment. If the Construction NO<sub>x</sub> Mitigation Plan still indicates an exceedance of the NO<sub>x</sub> significance threshold, the Applicant will pay the appropriate mitigation fee into the SMAQMD off-site mitigation program.

**Table 1-11  
Maximum Construction Emissions**

<b>Alternative</b>	<b>ROG (lb/day)</b>	<b>NO<sub>x</sub> (lb/day)</b>	<b>Total PM<sub>10</sub> (lb/day)</b>	<b>Total PM<sub>10</sub> (tpy)</b>	<b>Total PM<sub>2.5</sub> (lb/day)</b>	<b>Total PM<sub>2.5</sub> (tpy)</b>
Original Project Emissions	68.5 (Summer)	126.6 (Winter)	48.8 (Winter)	6.1 (2024)	14.0 (Winter)	1.7 (2023)
SMAQMD Significance Thresholds	None	85	80	14.6	82	15
<b>Exceed Threshold?</b>	<b>N/A</b>	<b>Yes</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
Alternative 2 Emissions	64.2 (Summer)	127.1 (Winter)	45.8 (Winter)	5.8 (2024)	13.2 (Winter)	1.6 (2023)
SMAQMD Significance Thresholds	None	85	80	14.6	82	15
<b>Exceed Threshold?</b>	<b>N/A</b>	<b>Yes</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

## 1.6 ADDITIONAL MITIGATION FOR ALTERNATIVE 2

In order to meet the SMAQMD 35 percent NO<sub>x</sub> and ROG reduction target and the County draft extrapolated 2035 GHG Threshold for Transportation, the Applicant is proposing additional mitigation for the Alternative 2 scenario.

Table 1-12 shows the proposed additional mitigation for the Alternative 2 Project-Related VMT scenario and Table 1-13 for the Alternative 2 Cumulative VMT scenario. The same additional mitigation measures and percent reduction for each measure applies to both scenarios, but the VMT mitigation is different. Section 4.2 discusses the basis for each of the mitigation measures.

**Table 1-12  
Additional Mitigation Emission Reductions for  
Alternative 2 Project-Related VMT**

Mitigation Measure	CAPCOA Sub-Category	Percent Reduction	Mobile Only ROG Annual Emissions and Reductions (tpy)	Mobile Only NO <sub>x</sub> Annual Emissions and Reductions (tpy)	CO <sub>2</sub> e Annual Emissions and Reductions (MT/yr)
Alternative 2 Emissions (CalEEMod and EMFAC BAU)	Baseline	Baseline	17.8	93.6	62,788 Mobile
Emission Reductions from Traffic Study VMT – Project-Related VMT (Difference between Project-Related VMT and BAU VMT emissions)	Numerous	CalEEMod ROG, NO <sub>x</sub> EMFAC CO <sub>2</sub> e	- 4.3	- 22.2	- 26,831 Mobile
Enhanced Transit Program	Not Specified	0.6% Mobile ROG, NO <sub>x</sub> , CO <sub>2</sub> e	- 0.11	- 0.56	- 377 Mobile
High Efficacy Public Outdoor Lighting	LE-1	CalEEMod CO <sub>2</sub> e	NA	NA	- 124 Commercial
Energy Efficient Appliances	BE-4	CalEEMod CO <sub>2</sub> e	NA	NA	- 34 Residential
Energy Efficient Boilers	BE-5	9.1% Boiler ROG, NO <sub>x</sub> , CO <sub>2</sub> e	- 0.01	- 0.10	- 107 Commercial
Residential Electric Hot Water Heaters	Not Specified	CalEEMod ROG and NO <sub>x</sub>	- 0.26	- 2.22	- 1,938 Residential
Public Electric Vehicle Charging Stations (Commercial, Office, Retail, Schools)	Not Specified	Electric/VMT-Equivalent Calculations	- 0.33	- 0.63	- 4,022 Mobile
Residential Electric Vehicle Charging Stations (Low, medium, and high density housing)	Not Specified	Electric/VMT-Equivalent Calculations	- 1.33	- 7.05	- 3,171 Mobile
<b>Total Reductions</b>			<b>- 6.3</b>	<b>- 32.8</b>	<b>- 36,604</b>
Reductions Needed to Achieve Targets			- 6.2	- 32.8	- 9,170

ROG and NO<sub>x</sub> reductions needed are 35 percent of BAU. CO<sub>2</sub>e reduction needed is difference between Residential and Commercial emissions in excess of draft extrapolated 2035 Thresholds less the Transportation shortfall per Appendix I-2.

**Table 1-13  
Additional Mitigation Emission Reductions for  
Alternative 2 Cumulative VMT**

Mitigation Measure	CAPCOA Sub-Category	Percent Reduction	Mobile Only ROG Annual Emissions and Reductions (tpy)	Mobile Only NO <sub>x</sub> Annual Emissions and Reductions (tpy)	CO <sub>2</sub> e Annual Emissions and Reductions (MT/yr)
Alternative 2 Emissions (CalEEMod and EMFAC BAU)	Baseline	Baseline	17.8	93.6	62,788 Mobile
Emission Reductions from Traffic Study VMT – Cumulative VMT (Difference between Cumulative VMT and BAU VMT emissions)	Numerous	CalEEMod ROG, NO <sub>x</sub> EMFAC CO <sub>2</sub> e	- 6.3	- 32.5	- 34,384 Mobile
Enhanced Transit Program	Not Specified	0.6% Mobile ROG, NO <sub>x</sub> , CO <sub>2</sub> e	- 0.11	- 0.56	- 377 Mobile
High Efficacy Public Outdoor Lighting	LE-1	CalEEMod CO <sub>2</sub> e	NA	NA	- 124 Commercial
Energy Efficient Appliances	BE-4	CalEEMod CO <sub>2</sub> e	NA	NA	- 34 Residential
Energy Efficient Boilers	BE-5	9.1% Boiler ROG, NO <sub>x</sub> , CO <sub>2</sub> e	- 0.01	- 0.10	- 107 Commercial
Residential Electric Hot Water Heaters	Not Specified	CalEEMod ROG and NO <sub>x</sub>	- 0.26	- 2.22	- 1,938 Residential
Public Electric Vehicle Charging Stations (Commercial, Office, Retail, Schools)	Not Specified	Electric/VMT-Equivalent Calculations	- 0.33	- 0.63	- 4,022 Mobile
Residential Electric Vehicle Charging Stations (Low, medium, and high density housing)	Not Specified	Electric/VMT-Equivalent Calculations	- 1.14	- 6.03	- 2,501 Mobile
<b>Total Reductions</b>			<b>- 8.2</b>	<b>- 42.0</b>	<b>- 43,487</b>
Reductions Needed to Achieve Targets			- 6.2	- 32.8	- 1,618

ROG and NO<sub>x</sub> reductions needed are 35 percent of BAU. CO<sub>2</sub>e reduction needed is difference between Residential and Commercial emissions in excess of draft extrapolated 2035 Thresholds less the Transportation shortfall per Appendix I-4.

After the additional mitigation is applied to Alternative 2, the mobile-only ROG and NO<sub>x</sub> emissions compared to BAU are as shown in Table 1-14. The Table shows that the SMAQMD ROG and NO<sub>x</sub> reduction requirement is met with the additional mitigation.

**Table 1-14  
Comparison of BAU and Mitigated ROG and NO<sub>x</sub> Annual Mobile-Only Emissions for  
Alternative 2 After Additional Mitigation**

<b>Alternative</b>	<b>ROG</b>	<b>NO<sub>x</sub></b>
BAU Alternative 2 Annual Mobile-Only Emissions	17.8 tpy	93.6 tpy
Project-Related VMT Additional Mitigated Alternative 2 Annual Mobile-Only Emissions	11.5 tpy	60.8 tpy
<b>Percent Reduction</b>	<b>35.4 %</b>	<b>35.0 %</b>
BAU Alternative 2 Annual Mobile-Only Emissions	17.8 tpy	93.6 tpy
Cumulative VMT Additional Mitigated Alternative 2 Annual Mobile-Only Emissions	9.6 tpy	51.5 tpy
<b>Percent Reduction</b>	<b>46.1 %</b>	<b>45.0 %</b>

Table 1-15 shows the draft extrapolated 2035 GHG Thresholds for Alternative 2 Project-Related VMT after the additional mitigation is applied. The draft extrapolated 2035 per capita Transportation Threshold is still not met after the additional mitigation is applied. However, as explained in Section 5.3, emission reductions from the other sectors more than compensate for the Transportation sector shortfall. This is shown in Table 1-16.

**Table 1-15  
Alternative 2 Project-Related VMT Scenario GHG Emission Thresholds  
After Additional Mitigation**

<b>Emission Sector</b>	<b>Total CO<sub>2</sub>e (MT/yr)</b>	<b>Persons/ Commercial Square Footage/ Truck VMT/100</b>	<b>Alternative 2 Project-Related VMT Emissions</b>	<b>Sacramento County Draft Extrapolated 2035 Thresholds</b>	<b>Threshold Units</b>
Residential Energy	5,987	15,022	0.40	0.65	MT/capita
Residential Energy Plus Schools	6,335	15,022	0.42	0.65	MT/capita
Commercial/Industrial Energy	1,993	2,022,100	0.99	3.81	MT/Kft <sup>2</sup>
Transportation	28,387	15,022	1.89	1.30	MT/capita
Trucks	1,987	79,257.6	0.03	0.07	MT/100 VMT



**Table 1-16  
Alternative 2 Project-Related VMT Excess GHG Emission Reductions  
After Additional Mitigation**

<b>Emission Sector</b>	<b>Alternative 2 Project-Related VMT Emissions CO<sub>2</sub>e (MT/yr)</b>	<b>Allowed Emissions to Meet Draft Extrapolated 2035 GHG Threshold (MT/yr)</b>	<b>CO<sub>2</sub>e Emission Reductions that are Greater (or less) than Needed to Meet the Draft Extrapolated 2035 GHG Thresholds (MT/yr)</b>
Residential Energy	5,987	9,725	3,738
Commercial/Industrial Energy	1,993	7,704	5,711
Transportation	28,387	19,575	(8,812)
<b>Net Total</b>			<b>637</b>

Note 1: Truck and Residential Plus Schools is not shown in the Table because that would be double counting reductions from Transportation and Residential alone.

Note 2: The values in the Table are from the spreadsheets of Appendix I, and due to round off differences may not match exactly hand-calculated values from other Tables.

For the Project-Related VMT scenario, if the emission reductions from the non-Transportation Sector that are greater than needed to meet the non-Transportation draft extrapolated 2035 thresholds were applied to the Transportation sector, the per capita Transportation emissions would be 1.26 MT/capita (28,387 MT/yr Transportation minus 5,711 Commercial minus 3,738 Residential MT excess reductions divided by 15,022 persons equals 1.26 MT/capita); which is less than the County 1.30 MT/capita draft extrapolated 2035 Transportation Threshold.

Table 1-17 shows the draft extrapolated 2035 GHG Thresholds for Alternative 2 Cumulative VMT after the additional mitigation is applied. The only difference between the Project-Related and Cumulative VMT scenarios is in the Transportation sector. All of the draft extrapolated 2035 GHG Thresholds are met for the Cumulative VMT scenario except the per capita Transportation threshold. However, as explained in Section 5.3, emission reductions from the other sectors more than compensate for the Transportation sector shortfall. This is shown in Table 1-18.

**Table 1-17  
Alternative 2 Cumulative VMT Scenario GHG Emission Thresholds  
After Additional Mitigation**

Emission Sector	Total CO <sub>2</sub> e (MT/yr)	Persons/ Commercial Square Footage/ Truck VMT/100	Alternative 2 Cumulative VMT Emissions	Sacramento County Draft Extrapolated 2035 Thresholds	Threshold Units
Residential Energy	5,987	15,022	0.40	0.65	MT/capita
Residential Energy Plus Schools	6,335	15,022	0.42	0.65	MT/capita
Commercial/Industrial Energy	1,993	2,022,100	0.99	3.81	MT/Kft <sup>2</sup>
Transportation	21,505	15,022	1.43	1.30	MT/capita
Trucks	1,505	63,508.4	0.02	0.07	MT/100 VMT

**Table 1-18  
Alternative 2 Cumulative VMT Excess GHG Emission Reductions  
After Additional Mitigation**

Emission Sector	Alternative 2 Cumulative VMT Emissions CO <sub>2</sub> e (MT/yr)	Allowed Emissions to Meet Draft Extrapolated 2035 GHG Threshold (MT/yr)	CO <sub>2</sub> e Emission Reductions that are Greater (or less) than Needed to Meet the Draft Extrapolated 2035 GHG Thresholds (MT/yr)
Residential Energy	5,987	9,725	3,738
Commercial/Industrial Energy	1,993	7,704	5,711
Transportation	21,505	19,575	(1,930)
<b>Net Total</b>			<b>7,519</b>

Note 1: Truck and Residential Plus Schools is not shown in the Table because that would be double counting reductions from Transportation and Residential alone.

Note 2: The values in the Table are from the spreadsheets of Appendix I, and due to round off differences may not match exactly hand-calculated values from other Tables.

For the Cumulative VMT scenario, if the excess emission reductions from the non-Transportation Sector that are greater than needed to meet the non-Transportation draft extrapolated 2035 thresholds were applied to the Transportation sector, the per capita Transportation emissions would be 0.80 MT/capita (21,505 MT/yr Transportation minus 5,711 Commercial minus 3,738 Residential MT excess reductions divided by 15,022 persons equals 0.80 MT/capita); which is much less than the County 1.30 MT/capita draft extrapolated 2035 Transportation Threshold

## 1.7 SUMMARY

In summary, incorporation of the planned and designed VMT reduction features of the Jackson Township greatly mitigates potential emissions of NO<sub>x</sub>, ROG, GHG, and PM. Additional mitigation beyond the VMT reduction has also been incorporated into Alternative 2. Table 1-19 summarizes the various reduction targets and how the Original Project and Alternative 2 meet those targets.

**Table 1-19  
Summary of Project Emissions Compared to Reduction Requirements and Thresholds**

Scenario	Meets SMAQMD ROG 35% Reduction?	Meets SMAQMD NO <sub>x</sub> 35% Reduction?	Meets Sacramento County Draft Extrapolated 2035 GHG Thresholds?	Meets SMAQMD Construction Significance Criteria?	Achieves Meaningful PM Emission Reductions?
Original Project Project-Related VMT	No	No	All but Transportation	All but NO <sub>x</sub>	Yes
Alternative 2 Project-Related VMT	No	No	All but Transportation	All but NO <sub>x</sub>	Yes
Alternative 2 Project-Related VMT with Additional Mitigation	Yes	Yes	Yes	All but NO <sub>x</sub>	Yes
Original Project Cumulative VMT	No	No	All but Transportation	All but NO <sub>x</sub>	Yes
Alternative 2 Cumulative VMT	Yes	Yes	All but Transportation	All but NO <sub>x</sub>	Yes
Alternative 2 Cumulative VMT with Additional Mitigation	Yes	Yes	Yes	All but NO <sub>x</sub>	Yes

In addition to all of the design features that reduce VMT and the additional mitigation, there are more emission reductions associated with other design and mitigation measures that have not been quantified but will also occur. For example, the following features, among others, will occur but the benefit of those features have not been quantified:

- Low flow bathroom, kitchen, showers, and toilets in all residential units and commercial buildings.
- Reduced square footage of residential turf due to the increased housing density.
- Water efficient irrigation systems and water efficient landscaping for the non-residential areas.
- Preserved wetlands, greenbelt, parks, and other vegetative areas totaling approximately 360 acres for the Original Project and 400 acres for Alternative 2 (more than 25 percent).

- VMT reduction resulting from membership in a Transportation Management Association (TMA).

Furthermore, if Jackson were fully built out, the Sacramento Raceway land would become part of the project. In that case the Raceway would either re-locate or would cease operations. In both cases there would be an additional very large reduction in ROG, NO<sub>x</sub>, and PM emissions (especially fugitive PM emissions), but Kleinfelder did not include the magnitude of that decrease in the above percent reduction.

Finally, all of the mobile-source emission estimates are over-stated because they do not account for the very large electric vehicle penetration and other changes in transportation that will have to occur if California is to reach the 2050 GHG reduction goal.

## 2 PROPOSED JACKSON TOWNSHIP SPECIFIC PLAN

The proposed Jackson Township Specific Plan consists of approximately 1,391 acres located in southeastern Sacramento County. This AQMP and GHGRP focus only on the Original Project and Alternative 2. Tables 2-1 and 2-2 present the summary land uses proposed by the Applicant by major category.

**Table 2-1  
Original Project Summary Land Use**

<i>Land Use Index</i>	<i>Residential Designations</i>	<i>Acres</i>	<i>Ave. Density</i>	<i>Dwelling Units</i>
1	LD-Low Density Residential	355.7	6.0	2,134
2	MD-Medium Density Residential	136.3	13.0	1,772
3	HD-High Density Residential	85.5	25.0	2,137
	<b>Subtotal</b>	<b>577.5</b>		<b>6,043</b>
	<b><i>Commercial + Office Zones</i></b>		<b><i>Approx. Bldg. Square Footage</i></b>	
4	GC-General Commercial	59.3	645,700	
5	CC-Community Commercial	17.6	191,600	
6	MU-Mixed Use	19.6	427,000	100
7	O-Office	33.6	731,800	
	<b>Subtotal</b>	<b>130.1</b>	<b>1,996,100</b>	<b>100</b>
	<b><i>Public/Quasi Public Zones</i></b>			
8	PQP-Tank Site	1.0		
9	PQP-High School/Middle School	70.0		
10	PQP-Elementary School	30.0		
	<b>Subtotal</b>	<b>101.0</b>		
	<b><i>Park + Open Space Zones</i></b>			
11	CP-Community Park	39.2		
12	P-Neighborhood Park	39.1		
13	OS-Wetland Preserve	214.3		
14	OS-Greenbelt/Drainage Corridor	57.7		
15	OS-Landscape Corridor	14.5		
16	OS-Detention Basin	3.2		
	<b>Subtotal</b>	<b>368.0</b>		
17	AG-Agriculture	109.8		
18	RW-Primary Roadways	104.6		
	<b>TOTAL</b>	<b>1,391.0</b>		<b>6,143</b>

**Table 2-2  
Alternative 2 Summary Land Use**

<i>Land Use Index</i>	<i>Residential Designations</i>	<i>Acres</i>	<i>Ave. Density</i>	<i>Dwelling Units</i>
1	LD-Low Density Residential	382.6	6.0	2,295
2	MD-Medium Density Residential	124.5	10.0	1,245
3	HD-High Density Residential	82.0	25.0	2,050
	<b>Subtotal</b>	<b>589.1</b>		<b>5,590</b>
	<b>Commercial + Office Zones</b>		<b>Approx. Bldg. Square Footage</b>	
4	GC-General Commercial	59.7	650,100	
5	CC-Community Commercial	16.2	176,400	
6	MU-Mixed Use	19.7	429,000	100
7	O-Office	35.2	766,600	
	<b>Subtotal</b>	<b>130.8</b>	<b>2,022,100</b>	<b>100</b>
	<b>Public/Quasi Public Zones</b>			
8	PQP-Tank Site	1.0		
9	PQP-High School/Middle School	70.0		
10	PQP-Elementary School	30.0		
	<b>Subtotal</b>	<b>101.0</b>		
	<b>Park + Open Space Zones</b>			
11	CP-Community Park	40.6		
12	P-Neighborhood Park	38.2		
13	OS-Wetland Preserve	259.8		
14	OS-Greenbelt/Drainage Corridor	55.6		
15	OS-Landscape Corridor	14.5		
	<b>Subtotal</b>	<b>408.7</b>		
16	AG-Agriculture	74.7		
17	RW-Primary Roadways	86.7		
	<b>TOTAL</b>	<b>1,391.0</b>		<b>5,690</b>

The summary land uses are as planned as of December 1, 2014. The Land Use Index in Tables 2-1 and 2-2 is used to reference the subcategory land uses in the following detailed land use descriptions. The land use data in Tables 2-1 and 2-2 do not provide all of the detail necessary to estimate operational emissions. Appendix A provides the additional detail developed by Kleinfelder and the Applicant and is shown in Tables 2-3 and 2-4. The detail in Tables 2-3 and 2-4 is based on the anticipated and typical land uses for a development like the Jackson Township. Detailed land use for the schools was derived from information provided by the Elk Grove Unified School District for average building sizes and parking lots. The gasoline pump numbers are based

on the CalEEMod User Guide Appendix D that uses 7.1 pumps per 1,000 square feet (sf). The detailed land use information is used for the emission calculations discussed in Section 3.

As shown in Tables 2-3 and 2-4 and Appendix A, one of the detailed land use categories input to the CalEEMod model is parking lot area. The parking lot area was planned by the Applicant through experience with other typical projects, usually as a fraction of the total acreage for the land use category. To confirm that the parking lot areas were reasonable, Kleinfelder consulted the current (as of January 2019) Institute of Traffic Engineers (ITE) Parking Generation Handbook (4<sup>th</sup> Edition) and calculated the parking lot area for each detailed land use. The results of that calculation are shown in Appendix B. The total planned parking lot area for the Original Project (as shown in Table 2-3) is 3,512,400 sf, while the standard parking lot area calculated with the ITE Handbook is 3,679,569 sf. The fact that the planned and ITE standard parking lot areas are relatively close indicates that the planned parking lot area values are reasonable.

**Table 2-3  
Detail Land Use for Emission Calculations for Original Project**

<b>Index</b>	<b>Residential Designations</b>	<b>Acres</b>	<b>Detailed Land Use for Emission Estimates</b>
1	LD-Low Density Residential	355.7	Single Family Housing, 2,134 dwelling units
2	MD-Medium Density Residential	136.3	Single Family Housing, 1,772 dwelling units
3	HD-High Density Residential	85.5	Mid-Rise Apartments, 2,137 dwelling units
	<b>Subtotal</b>	<b>577.5</b>	
	<b>Commercial + Office Zones</b>		<b>Approx. Bldg. Square Footage</b>
4	GC-General Commercial	59.3	193,700 sf Discount Club, 465,200 sf parking lot. 161,400 sf Home Improvement Store, 386,800 sf parking lot. 64,600 sf Grocery Store, 154,200 sf parking lot. 32,300 sf Hardware/Paint Store, 78,400 sf parking lot. 32,300 sf Pharmacy with Drive-Thru, 78,400 sf parking lot.
	GC-General Commercial	59.3	38,700 sf Restaurants with Drive-Thru, 94,100 sf parking lot. 113,000 sf Strip Mall (Miscellaneous in-line Retail), 271,800 sf parking lot. 3,200 sf Convenience Store, 7,800 sf parking lot. 6,500 sf Gasoline Service Stations (2 Stations), 15,700 sf parking lot. 24 pumps per station.
5	CC-Community Commercial	17.6	3,000 sf Gasoline Service Station, 7,800 sf parking lot. 24 pumps at the station. 188,600 sf Strip Mall, 452,000 sf parking lot
6	MU-Mixed Use	19.6	178,600 sf Mid-rise Apartments, 100 Dwelling Units in Apartments. 248,400 sf Retail (Strip Mall style). 341,500 sf parking lot for both Apartments and Retail combined.
7	O-Office	33.6	433,400 sf Hospital, 173,400 sf surface parking lot, 173,400 sf unenclosed parking structure footprint 298,300 sf General Office Building, 238,700 sf parking lot
	<b>Subtotal</b>	<b>130.1</b>	<b>1,996,100 sf</b>
	<b>Public/Quasi Public Zones</b>		
8	PQP-Tank Site	1.0	1 acre allotted for possible water storage tank 90 feet diameter by 24 feet high
9	PQP-High School/Middle School	70.0	250,000 sf building; 609,800 sf parking lot
10	PQP-Elementary School	30.0	225,000 sf buildings; 136,800 sf parking lot
	<b>Subtotal</b>	<b>101.0</b>	
<b>Index</b>	<b>Residential Designations</b>	<b>Acres</b>	<b>Detailed Land Use for Emission Estimates</b>
	<b>Park + Open Space Zones</b>		
11	CP-Community Park	39.2	Community Park and Neighborhood Park acreage used for Operational emissions. Remaining land uses do not cause operational emissions.
12	P-Neighborhood Park	39.1	
13	OS-Wetland Preserve	214.3	
14	OS-Greenbelt/Drainage Corridor	57.7	
15	OS-Landscape Corridor	14.5	
16	OS-Detention Basin	3.2	
	<b>Subtotal</b>	<b>368.0</b>	
17	AG-Agriculture	109.8	
18	RW-Primary Roadways	104.6	
	<b>TOTAL</b>	<b>1,391.0</b>	



**Table 2-4  
Detail Land Use for Emission Calculations for Alternative 2**

<i>Index</i>	<i>Residential Designations</i>	<i>Acres</i>	<i>Detailed Land Use for Emission Estimates</i>
1	LD-Low Density Residential	382.6	Single Family Housing, 2,295 dwelling units
2	MD-Medium Density Residential	124.5	Single Family Housing, 1,245 dwelling units
3	HD-High Density Residential	82.0	Mid-Rise Apartments, 2,050 dwelling units
	<b>Subtotal</b>	<b>589.1</b>	
<b>Commercial + Office Zones</b>			<b>Approx. Bldg. Square Footage</b>
4	GC-General Commercial	59.7	195,000 sf Discount Club, 468,300 sf parking lot. 162,500 sf Home Improvement Store, 390,300 sf parking lot. 65,000 sf Grocery Store, 156,800 sf parking lot 32,500 sf Pharmacy with Drive-Thru, 78,000 sf parking lot. 32,500 sf Hardware Store, 78,000 sf parking 39,000 sf Restaurants with Drive-Thru, 93,700 sf parking lot. 113,800 sf Strip Mall (Miscellaneous in-line Retail), 273,100 sf parking lot. 3,300 sf Convenience Store, 7,800 sf parking lot. 6,500 sf Gasoline Service Stations (2 Stations), 15,700 sf parking lot. 24 pumps per station.
5	CC-Community Commercial	16.2	3,000 sf Gasoline Service Station, 7,400 sf parking lot. 24 pumps at the station. 173,400 sf Strip Mall, 416,000 sf parking lot
6	MU-Mixed Use	19.7	178,600 sf Mid-rise Apartments, 100 Dwelling Units in Apartments. 250,400 sf Retail (Strip Mall style). 343,200 sf parking lot for both Apartments and Retail combined.
7	O-Office	35.2	766,600 sf General Office Building, 613,300 sf surface parking lot
	<b>Subtotal</b>	<b>130.8</b>	<b>2,022,100 sf</b>
<b>Public/Quasi Public Zones</b>			
8	PQP-Tank Site	1.0	1 acre allotted for possible water storage tank 90 feet diameter by 24 feet high
9	PQP-High School/Middle School	70.0	250,000 sf building; 609,800 sf parking lot
10	PQP-Elementary School	30.0	225,000 sf buildings; 136,800 sf parking lot
	<b>Subtotal</b>	<b>101.0</b>	
<b>Park + Open Space Zones</b>			
11	CP-Community Park	40.6	Community Park and Neighborhood Park acreage used for Operational emissions. Remaining land uses do not cause operational emissions.
12	P-Neighborhood Park	38.2	
13	OS-Wetland Preserve	259.8	
14	OS-Greenbelt/Drainage Corridor	55.6	
15	OS-Landscape Corridor	14.5	
	<b>Subtotal</b>	<b>408.7</b>	
16	AG-Agriculture	74.7	
17	RW-Primary Roadways	86.7	
	<b>TOTAL</b>	<b>1,391.0</b>	

Kleinfelder entered the data in Table 2-3 and 2-4 and Appendix A into CalEEMod to calculate the emissions. The CalEEMod reports show where the data were used. There are two land use subcategories that require additional explanation: the possible water storage tank and hearths. Although a water use study has not been completed for the Project, it is possible that an approximately 1 million-gallon water storage tank may need to be located within the Project. This tank would be located at the PQP-Tank Site (Land use category 8) on a 1-acre parcel. The tank would be approximately 90 feet in diameter and 24 feet high. To account for painting the tank, the surface area of the tank was calculated (13,148 square feet for the sides and top). CalEEMod assumes that all coatings have a volatile organic compound (VOC) content of 150 grams per liter (g/l). However, rust preventative coatings are allowed to contain up to 400 g/l per SMAQMD Rule 440. Also, it is possible that the tank would need two coats of paint. Accordingly, Kleinfelder entered the tank into CalEEMod as a "User Defined" industrial land use with a 1-acre lot size and 70,123 square feet (13,148 square feet x 2 coatings x 400 g/l divided by 150 g/l).

For residential hearths, it was overestimated that every dwelling unit (single family house and apartment) would have a natural gas fueled decorative hearth. For purposes of the emission calculations, the hearth would not be used for heating because heating emissions are already accounted for elsewhere in the CalEEMod model. However, the hearths could be used for ambiance. It is assumed that ambiance would be used on rainy days, not necessarily cold days because the hearths are not being used for heating. Kleinfelder assumed that one-third of all the hearths would be used 3 hours per day on every day that it rained more than 0.10 inches in Sacramento, which on average is about 40 days per year (per the National Climatic Center, [www.ncdc.noaa.gov/cdo-web](http://www.ncdc.noaa.gov/cdo-web)).

### 3 OPERATIONAL EMISSION ESTIMATING METHODOLOGY AND RESULTS

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#### 3.1 OPERATIONAL ROG, NO<sub>x</sub>, AND PM EMISSIONS ESTIMATING METHODOLOGY

Kleinfelder calculated operational emission estimates for the Original Project and Alternative 2 with the CalEEMod emissions model, Version 2016.3.2. CalEEMod calculates emissions for criteria pollutants and GHG based on detailed land use metrics (e.g., acreage, dwelling units, square feet, number of fueling pumps) and vehicle emissions associated with each land use. The detailed land uses shown in Appendix A were used to estimate emissions. Except for the CO<sub>2</sub> intensity for electrical generation, the mobile source emissions category, the 2019 Building Energy Standards, and the additional mitigation calculations, as explained below, CalEEMod default input factors were used to calculate emissions. CalEEMod was run for a full build-out year of 2035.

For electrical generation CO<sub>2</sub> intensity, PER provided<sup>2</sup> the current (as of January 2019) Sacramento Municipal Utility District (SMUD) CO<sub>2</sub> intensity value for 2030 of 236.9 pounds per megawatt hour (lb/MWh). That value was entered into CalEEMod instead of the default CO<sub>2</sub> intensity. CalEEMod default values from SMUD were used for methane (CH<sub>4</sub>), 0.029 lb/MWh, and nitrous oxide (N<sub>2</sub>O), 0.006 lb/MWh.

CalEEMod Version 2016.3.2 includes the 2016 California Energy Commission (CEC) Building Energy Efficiency Standards (California Code of Regulations Title 24, Part 6). However, it does not include the 2019 Energy Standards that were promulgated in March 2018 and will become effective January 1, 2020. The CEC fact sheet for the 2019 standards indicate that the 2019 standards will reduce energy use by 7 percent in residential buildings due to improvements in the building envelope and energy efficiency measures and 30 percent less energy in non-residential buildings due mainly to lighting upgrades.<sup>3</sup> The 2019 Energy Standards also require photovoltaic generation (solar) must be used on all residential buildings to meet 100 percent of the annual electrical energy needs. Since the 2019 Energy Standards are not optional, the emission reductions related to those standards were incorporated in both the BAU and the project

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<sup>2</sup> Memo from Mr. Todd Smith dated January 11, 2019.

<sup>3</sup> ([https://www.energy.ca.gov/title24/2019standards/documents/2018\\_Title\\_24\\_2019\\_Building\\_Standards\\_FAQ.pdf](https://www.energy.ca.gov/title24/2019standards/documents/2018_Title_24_2019_Building_Standards_FAQ.pdf)).

CalEEMod runs by adding an energy reduction percentage in the “Energy Mitigation Tab” of the CalEEMod input files.

The CalEEMod “Energy Mitigation Tab” provides for a single entry of energy reduction greater than 2016 Title 24 standards and a single entry for percent of electrical energy generated on-site by renewable energy. But the 2019 Energy Standards are different for residential versus non-residential buildings. Thus, the CEC fact sheet energy reduction percentages (i.e., 7, 30, or 100 percent) cannot simply be entered into CalEEMod; rather an effective energy reduction percentage and an effective on-site renewable electrical generation percentage had to be derived to account for the specific residential and non-residential building mix of the Original Project and Alternative 2. Appendix H contains the CalEEMod runs based on the 2016 Standards and shows the calculation for the project-specific effective energy reduction and effective on-site renewable electrical generation percentages resulting from the 2019 Standards.

The calculation took the BAU GHG emissions estimated by CalEEMod for each of the land uses shown in Section 2 and the two energy sources (natural gas and electricity) in CalEEMod; applied the 2019 Building Energy Standards percent reduction values (i.e., 7, 30, and 100 percent) to the relevant land uses and energy sources; and then calculated the overall effective reduction percentage for total energy and for on-site renewable electrical generation. Since there is no difference between BAU and the proposed project with respect to non-mobile emissions, the same effective percentages calculated for BAU were applied to all of the CalEEMod estimates.

CalEEMod includes emissions from mobile sources, and uses typical trip frequencies, trip types, trip lengths (depending on the specific land use subcategory), and standard California emission factors (EMFAC2014 in the CalEEMod 2016.3.2 version) to calculate mobile source emissions. However, as discussed in Sections 4, 5, and 6, the Original Project and Alternative 2 incorporate a number of features that significantly reduces the VMT of the mobile sources. Accordingly, to estimate emissions of the Original Project and Alternative 2, Kleinfelder adjusted the trip frequency and mileage in CalEEMod such that the annual VMT matched the annual VMT forecast by the Traffic Study prepared by PER for the Project-Related VMT and Cumulative VMT scenarios. The vehicle travel mileage forecast by the Traffic Study is shown in Appendix C. The mileage shown in Appendix C is the mileage forecast by the Traffic Study and includes changes in traffic patterns as the result of the Original Project and Alternative 2. The Traffic Study VMT data provided by PER forecasts peak daily VMT that will occur in calendar year 2035 as the result of the Proposed Project and Alternatives if nearby planned projects are also developed

(cumulative). The VMT used in CalEEMod is the incremental increase in VMT as a result of the Project, both as a stand-alone project (project-related) and cumulative with three other projects in the area. The incremental peak daily VMT forecast by the Traffic Study for calendar year 2035 is as follows (see Appendix C):

- Original Project Project-Related VMT: 395,340 miles per day
- Alternative 2 Project-Related VMT: 353,828 miles per day
- Original Project Cumulative VMT: 319,682 miles per day
- Alternative 2 Cumulative VMT: 283,520 miles per day

Kleinfelder converted the peak daily VMT to annual VMT by multiplying the peak daily calendar year 2035 VMT by 320 days per year. The 320 value is approximately 52 weeks per year, 6 days per week. The assumption is that the peak daily VMT occurs on each of 5 days and about one-half of the peak daily VMT occurs on Saturday and Sunday. Accordingly, the calendar year 2035 annual incremental VMT is as shown in Appendix C and repeated here:

- Original Project Project-Related VMT: 126,508,800 miles per year
- Alternative 2 Project-Related VMT: 113,225,078 miles per year
- Original Project Cumulative VMT: 102,298,134 miles per year
- Alternative 2 Cumulative VMT: 90,726,317 miles per year

As discussed in Section 4, the default CalEEMod parameters yields emission estimates and VMT based on BAU. Appendix G shows the annual VMT for BAU, which is as follows:

- Original Project: 238,448,655 miles per year
- Alternative 2: 222,962,916 miles per year

If one compares the business as usual VMT to the VMT forecast by the Traffic Study, the Traffic Study VMT for the Original Project is about 47 to 49 percent less than BAU, and Alternative 2 is about 57 to 59 percent less than business as usual VMT.

The CalEEMod BAU default trip frequency is based on each individual land use and the Institute of Traffic Engineers Trip Generation handbook. There are separate frequencies for weekdays, Saturday, and Sunday. The CalEEMod default trip type and trip length is from information provided by the air district or California statewide averages. The CalEEMod model calculates the mileage per trip type by considering whether the trip was a primary trip, diverted trip, or pass-by

trip. An example pass-by trip is a person stopping to shop on their way home from work. A diverted trip example is a person going home from work, but traveling a short additional distance to shop. CalEEMod assumes that a pass-by trip is 0.1 miles and a diverted trip will be 25 percent of the primary trip length

In order to match the VMT for the Original Project and Alternative 2 in CalEEMod to the VMT forecast by the Traffic Study, Kleinfelder adjusted the default trip frequencies and trip mileages as described below. The default CalEEMod pass-by and diverted trip frequencies were not changed and the emission factors were not changed. Tables 3-1 and 3-2 show the default trip frequencies and the adjusted trip frequencies for the Original Project and Alternative 2. For most of the land uses, the trip frequencies were reduced by about 15 to 40 percent. However, trip frequencies for land uses not likely to be greatly affected by design and mitigation in the Proposed Project were not changed. The un-changed land use trip frequencies were for the discount club, fast food restaurants, gasoline stations, hardware/paint store, home improvement store, hospital, and pharmacy. Note that the trip frequencies are in terms of the land use metric (which varies among different land uses) in CalEEMod and the frequency numbers in Table 3-1 cannot be compared across land uses.

Tables 3-3 and 3-4 show the BAU and the adjusted trip lengths used to estimate emissions for the Original Project and Alternative 2. In the tables, H-W is a home-work trip, H-S is a home-shop trip at a retail location, H-O is a home to a non-work, non-store trip, e.g., a school or entertainment. C-C is a commercial-customer trip where a person travels to a commercial site to partake of its services. C-W is a commercial-work trip where employees travel to a commercial site to work. C-NW is commercial-non-work for trips other than customers or employees, e.g., a vendor delivery vehicle.

**Table 3-1a  
Business As Usual and Adjusted Trip Frequencies for  
Original Project – Project-Related VMT**

Land Use	Business As Usual			Adjusted for Original Project		
	Weekday	Sat	Sun	Weekday	Sat	Sun
Apartments Mid-Rise	6.65	6.39	5.86	5.5	5.3	4.8
City Park	1.89	22.75	16.74	1.5	19.0	13.9
Convenience Market	737.99	863.1	758.45	614.0	718.0	631.0
Discount Club	41.8	53.75	33.67	41.8	53.75	33.67
Elementary School	15.43	0	0	12.9	0	0
Fast Food Restaurants with drive-thru	496.12	722.03	542.72	496.12	722.03	542.72
Gasoline Stations	168.56	168.56	168.56	168.56	168.56	168.56
General Office Building	11.03	2.46	1.05	9.1	2.1	0.8
Hardware/Paint Store	51.29	82.52	68.65	51.29	82.52	68.65
High School	12.89	4.37	1.79	10.7	3.6	1.5
Home Improvement Store	30.74	56.72	55.8	30.74	56.72	55.8
Hospital	13.22	10.18	8.91	13.22	10.18	8.91
Library	56.24	46.55	25.49	46.8	38.9	21.2
Office Park	11.42	1.64	0.76	9.1	1.3	0.6
Parking Lot	0	0	0	0	0	0
Pharmacy	96.91	96.91	96.91	96.91	96.91	96.91
Single Family Housing	9.52	9.91	8.62	7.9	8.3	7.3
Strip Mall	44.32	42.04	20.43	37.0	35.0	17.1
Supermarket	102.24	177.59	166.44	85.0	145.0	138.6
Parking Structure	0	0	0	0	0	0

**Table 3-1b  
Business As Usual and Adjusted Trip Frequencies for  
Original Project – Cumulative VMT**

Land Use	Business As Usual			Adjusted for Original Project		
	Weekday	Sat	Sun	Weekday	Sat	Sun
Apartments Mid-Rise	6.65	6.39	5.86	4.5	4.3	3.9
City Park	1.89	22.75	16.74	1.2	15.4	11.3
Convenience Market	737.99	863.1	758.45	499.0	583.0	512.5
Discount Club	41.8	53.75	33.67	41.8	53.75	33.67
Elementary School	15.43	0	0	10.5	0	0
Fast Food Restaurants with drive-thru	496.12	722.03	542.72	496.12	722.03	542.72
Gasoline Stations	168.56	168.56	168.56	168.56	168.56	168.56
General Office Building	11.03	2.46	1.05	7.4	1.7	0.7
Hardware/Paint Store	51.29	82.52	68.65	51.29	82.52	68.65
High School	12.89	4.37	1.79	8.7	2.9	1.2
Home Improvement Store	30.74	56.72	55.8	30.74	56.72	55.8
Hospital	13.22	10.18	8.91	13.22	10.18	8.91
Library	56.24	46.55	25.49	38.0	31.4	17.2
Office Park	11.42	1.64	0.76	7.4	1.1	0.5
Parking Lot	0	0	0	0	0	0
Pharmacy	96.91	96.91	96.91	96.91	96.91	96.91
Single Family Housing	9.52	9.91	8.62	6.4	6.7	5.9
Strip Mall	44.32	42.04	20.43	30.0	28.4	13.9
Supermarket	102.24	177.59	166.44	69.0	120.0	112.5
Parking Structure	0	0	0	0	0	0



**Table 3-2a  
Business As Usual and Adjusted Trip Frequencies for  
Alternative 2 – Project-Related VMT**

Land Use	Business As Usual			Adjusted for Alternative 2		
	Weekday	Sat	Sun	Weekday	Sat	Sun
Apartments Mid-Rise	6.65	6.39	5.86	5.0	4.7	4.4
City Park	1.89	22.75	16.74	1.4	17.1	12.5
Convenience Market	737.99	863.1	758.45	552.0	645.0	567.0
Discount Club	41.8	53.75	33.67	41.8	53.75	33.67
Elementary School	15.43	0	0	11.6	0	0
Fast Food Restaurants with drive-thru	496.12	722.03	542.72	496.12	722.03	542.72
Gasoline Stations	168.56	168.56	168.56	168.56	168.56	168.56
General Office Building	11.03	2.46	1.05	8.2	1.9	0.7
Hardware/Paint Store	51.29	82.52	68.65	51.29	82.52	68.65
High School	12.89	4.37	1.79	9.6	3.2	1.4
Home Improvement Store	30.74	56.72	55.8	30.74	56.72	55.8
Library	56.24	46.55	25.49	42.0	34.8	19.0
Parking Lot	0	0	0	0	0	0
Pharmacy	96.91	96.91	96.91	96.91	96.91	96.91
Single Family Housing	9.52	9.91	8.62	7.1	7.4	6.5
Strip Mall	44.32	42.04	20.43	33.2	31.4	15.3
Supermarket	102.24	177.59	166.44	76.4	132.9	125.0

**Table 3-2b  
Business As Usual and Adjusted Trip Frequencies for  
Alternative 2 – Cumulative VMT**

Land Use	Business As Usual			Adjusted for Alternative 2		
	Weekday	Sat	Sun	Weekday	Sat	Sun
Apartments Mid-Rise	6.65	6.39	5.86	4.0	3.8	3.5
City Park	1.89	22.75	16.74	1.1	13.7	10.0
Convenience Market	737.99	863.1	758.45	443.0	518.0	455.0
Discount Club	41.8	53.75	33.67	41.8	53.75	33.67
Elementary School	15.43	0	0	9.3	0	0
Fast Food Restaurants with drive-thru	496.12	722.03	542.72	496.12	722.03	542.72
Gasoline Stations	168.56	168.56	168.56	168.56	168.56	168.56
General Office Building	11.03	2.46	1.05	6.6	1.5	0.6
Hardware/Paint Store	51.29	82.52	68.65	51.29	82.52	68.65
High School	12.89	4.37	1.79	7.7	2.6	1.1
Home Improvement Store	30.74	56.72	55.8	30.74	56.72	55.8
Library	56.24	46.55	25.49	33.7	27.9	15.3
Parking Lot	0	0	0	0	0	0
Pharmacy	96.91	96.91	96.91	96.91	96.91	96.91
Single Family Housing	9.52	9.91	8.62	5.7	5.9	5.2
Strip Mall	44.32	42.04	20.43	26.6	25.2	12.3
Supermarket	102.24	177.59	166.44	61.3	106.6	99.9

**Table 3-3a  
Business As Usual and Adjusted Trip Lengths for  
Original Project – Project-Related VMT**

Land Use	Business As Usual						Adjusted for Original Project					
	H-W (mi)	H-S (mi)	H-O (mi)	C-C (mi)	C-W (mi)	C-NW (mi)	H-W (mi)	H-S (mi)	H-O (mi)	C-C (mi)	C-W (mi)	C-NW (mi)
Apartments Mid-Rise	10	5	6.5	0	0	0	6.1	3.0	4.0	0	0	0
City Park	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
Convenience Market	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
Discount Club	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
Elementary School	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
Fast Food Restaurants	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
Gasoline Stations	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
General Office Building	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
Hardware/Paint Store	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
High School	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
Home Improvement Store	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
Hospital	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
Library	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
Office Park	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
Parking Lot	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
Pharmacy	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
Single Family Housing	10	5	6.5	0	0	0	6.1	3.0	4.0	0	0	0
Strip Mall	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
Supermarket	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0
Parking Structure	0	0	0	5	10	6.5	0	0	0	3.0	6.1	4.0

**Table 3-3b  
Business As Usual and Adjusted Trip Lengths for  
Original Project – Cumulative VMT**

Land Use	Business As Usual						Adjusted for Original Project					
	H-W (mi)	H-S (mi)	H-O (mi)	C-C (mi)	C-W (mi)	C-NW (mi)	H-W (mi)	H-S (mi)	H-O (mi)	C-C (mi)	C-W (mi)	C-NW (mi)
Apartments Mid-Rise	10	5	6.5	0	0	0	5.7	2.8	3.83	0	0	0
City Park	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
Convenience Market	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
Discount Club	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
Elementary School	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
Fast Food Restaurants	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
Gasoline Stations	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
General Office Building	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
Hardware/Paint Store	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
High School	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
Home Improvement Store	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
Hospital	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
Library	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
Office Park	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
Parking Lot	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
Pharmacy	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
Single Family Housing	10	5	6.5	0	0	0	5.7	2.8	3.83	0	0	0
Strip Mall	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
Supermarket	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83
Parking Structure	0	0	0	5	10	6.5	0	0	0	2.8	5.7	3.83

**Table 3-4a  
Business As Usual and Adjusted Trip Lengths for  
Alternative 2 – Project-Related VMT**

Land Use	Business As Usual						Adjusted for Alternative 2					
	H-W (mi)	H-S (mi)	H-O (mi)	C-C (mi)	C-W (mi)	C-NW (mi)	H-W (mi)	H-S (mi)	H-O (mi)	C-C (mi)	C-W (mi)	C-NW (mi)
Apartments Mid-Rise	10	5	6.5	0	0	0	6.2	3.15	4.11	0	0	0
City Park	0	0	0	5	10	6.5	0	0	0	3.15	6.2	4.11
Convenience Market	0	0	0	5	10	6.5	0	0	0	3.15	6.2	4.11
Discount Club	0	0	0	5	10	6.5	0	0	0	3.15	6.2	4.11
Elementary School	0	0	0	5	10	6.5	0	0	0	3.15	6.2	4.11
Fast Food Restaurants	0	0	0	5	10	6.5	0	0	0	3.15	6.2	4.11
Gasoline Stations	0	0	0	5	10	6.5	0	0	0	3.15	6.2	4.11
General Office Building	0	0	0	5	10	6.5	0	0	0	3.15	6.2	4.11
Hardware/Paint Store	0	0	0	5	10	6.5	0	0	0	3.15	6.2	4.11
High School	0	0	0	5	10	6.5	0	0	0	3.15	6.2	4.11
Home Improvement Store	0	0	0	5	10	6.5	0	0	0	3.15	6.2	4.11
Library	0	0	0	5	10	6.5	0	0	0	3.15	6.2	4.11
Parking Lot	0	0	0	5	10	6.5	0	0	0	3.15	6.2	4.11
Pharmacy	0	0	0	5	10	6.5	0	0	0	3.15	6.2	4.11
Single Family Housing	10	5	6.5	0	0	0	6.2	3.15	4.11	0	0	0
Strip Mall	0	0	0	5	10	6.5	0	0	0	3.15	6.2	4.11
Supermarket	0	0	0	5	10	6.5	0	0	0	3.15	6.2	4.11

**Table 3-4b  
Business As Usual and Adjusted Trip Lengths for  
Alternative 2 – Cumulative VMT**

Land Use	Business As Usual						Adjusted for Alternative 2					
	H-W (mi)	H-S (mi)	H-O (mi)	C-C (mi)	C-W (mi)	C-NW (mi)	H-W (mi)	H-S (mi)	H-O (mi)	C-C (mi)	C-W (mi)	C-NW (mi)
Apartments Mid-Rise	10	5	6.5	0	0	0	6.0	3.0	3.99	0	0	0
City Park	0	0	0	5	10	6.5	0	0	0	3.0	6.0	3.99
Convenience Market	0	0	0	5	10	6.5	0	0	0	3.0	6.0	3.99
Discount Club	0	0	0	5	10	6.5	0	0	0	3.0	6.0	3.99
Elementary School	0	0	0	5	10	6.5	0	0	0	3.0	6.0	3.99
Fast Food Restaurants	0	0	0	5	10	6.5	0	0	0	3.0	6.0	3.99
Gasoline Stations	0	0	0	5	10	6.5	0	0	0	3.0	6.0	3.99
General Office Building	0	0	0	5	10	6.5	0	0	0	3.0	6.0	3.99
Hardware/Paint Store	0	0	0	5	10	6.5	0	0	0	3.0	6.0	3.99
High School	0	0	0	5	10	6.5	0	0	0	3.0	6.0	3.99
Home Improvement Store	0	0	0	5	10	6.5	0	0	0	3.0	6.0	3.99
Library	0	0	0	5	10	6.5	0	0	0	3.0	6.0	3.99
Parking Lot	0	0	0	5	10	6.5	0	0	0	3.0	6.0	3.99
Pharmacy	0	0	0	5	10	6.5	0	0	0	3.0	6.0	3.99
Single Family Housing	10	5	6.5	0	0	0	6.0	3.0	3.99	0	0	0
Strip Mall	0	0	0	5	10	6.5	0	0	0	3.0	6.0	3.99
Supermarket	0	0	0	5	10	6.5	0	0	0	3.0	6.0	3.99

The CalEEMod trip frequency and length reductions from BAU made to match the VMT calculated by the Traffic Study resulted in the following annual VMT used in CalEEMod:

- Original Project Project-related VMT: 126,596,742 miles per year
- Alternative 2 Project-related VMT: 113,259,971 miles per year
- Original Project Cumulative VMT: 102,413,756 miles per year
- Alternative 2 Cumulative VMT: 90,802,301 miles per year

Note that the modeled adjusted CalEEMod annual VMT is slightly greater (about 0.1 percent) than the Traffic Study VMT. It was not reasonably feasible to adjust the CalEEMod trip lengths

and frequencies to match exactly the Traffic Study VMT, and thus the slight over-estimate in VMT was used.

### 3.2 OPERATIONAL GHG EMISSIONS ESTIMATING METHODOLOGY

Operational GHG emissions were calculated with two methods, one for non-mobile emissions and one for transportation-related emissions. Non-mobile emissions were calculated with CalEEMod for BAU, Project-Related VMT, and Cumulative VMT scenarios as discussed in the previous section. Transportation (mobile) related emissions of GHG were calculated using EMFAC2017, which is the current (as of January 2019) California mobile-source emissions model. EMFAC2017 provides emission factors for various vehicle types (e.g., autos, light trucks, heavy duty trucks, etc.), various model years, and various speeds segregated by County and projected for future calendar years. EMFAC2017 GHG emission factors were obtained from the EMFAC2017 Web Database<sup>4</sup> for Sacramento County, calendar year 2035. The emission factors from the database were aggregated for all model years; but individual speeds and fuel types were not aggregated. The EMFAC2017 Web Database also provides annual countywide VMT values for each speed and fuel type category for the selected calendar year. The Traffic Study provides VMT only separated by speed bin (vehicle type is aggregated). Accordingly, Kleinfelder calculated a weighted average emission factor for each speed bin using the EMFAC2017 VMT projections as the weighting factor. These emission factors (by speed bin) were then used to calculate GHG emissions for the four project scenarios evaluated. BAU vehicle miles traveled are not segregated by speed bin. Therefore, BAU emissions were calculated using an aggregated weighted average emission factor for all speeds combined. The EMFAC2017 calculations are shown in Appendix D.

### 3.3 OPERATIONAL ROG AND NO<sub>x</sub> EMISSION RESULTS

The detailed land use subcategories of Appendix A and the traffic data of Appendix C were used to estimate annual ROG and NO<sub>x</sub> emissions with the CalEEMod emissions model. The CalEEMod reports for annual emissions are shown in Appendix E and the results for total and mobile-only NO<sub>x</sub> and ROG emissions are summarized in Tables 3-5 to 3-7 (in terms of tons per year, tpy).

Table 3-5 shows the annual BAU total and mobile-only emissions of ROG and NO<sub>x</sub> (tons per year) for the Original Project and Alternative 2. Only annual emissions were calculated as the AQMP

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<sup>4</sup> (<https://www.arb.ca.gov/emfac/2017/>)

focuses on annual emissions. Table 3-6 shows the total annual and mobile-only ROG and NO<sub>x</sub> emissions for the Original Project and Alternative 2 based on the Traffic Study VMT. Maximum daily total (mobile plus non-mobile) ROG and NO<sub>x</sub> emissions for the Project-Related and Cumulative VMT scenarios are shown in Table 3-7 (from the CalEEMod reports in Appendix F) as a point of information, not as part of the AQMP.

**Table 3-5  
Annual BAU Emissions of ROG and NO<sub>x</sub>**

<b>Alternative</b>	<b>Annual Total ROG (tpy)</b>	<b>Annual Total NO<sub>x</sub> (tpy)</b>	<b>Annual Mobile-Only ROG Emissions (tpy)</b>	<b>Annual Mobile-Only NO<sub>x</sub> Emissions (tpy)</b>
BAU Original Project Emissions	74.6	107.3	18.7	97.9
BAU Alternative 2 Emissions	70.1	101.0	17.8	93.6

**Table 3-6  
Annual Emissions of ROG and NO<sub>x</sub> Under  
Project-Related and Cumulative VMT Scenarios**

<b>Alternative</b>	<b>Annual Total ROG (tpy)</b>	<b>Annual Total NO<sub>x</sub> (tpy)</b>	<b>Annual Mobile-Only ROG Emissions (tpy)</b>	<b>Annual Mobile-Only NO<sub>x</sub> Emissions (tpy)</b>
Original Project with Project-Related VMT Emissions	70.6	87.2	14.7	77.8
Alternative 2 with Project-Related VMT Emissions	65.7	78.8	13.5	71.4
Original Project with Cumulative VMT Emissions	68.8	77.6	12.9	68.3
Alternative 2 with Cumulative VMT Emissions	63.8	68.6	11.5	61.1



**Table 3-7  
Maximum Total Daily Emissions of ROG and NO<sub>x</sub> Under  
Project-Related and Cumulative VMT Scenarios**

<b>Alternative</b>	<b>Maximum Total Daily Summer ROG (lb/day)</b>	<b>Maximum Total Daily Winter ROG (lb/day)</b>	<b>Maximum Total Daily Summer NO<sub>x</sub> (lb/day)</b>	<b>Maximum Total Daily Winter NO<sub>x</sub> (lb/day)</b>
Original Project with Project-Related VMT Emissions	447.2	403.1	609.5	615.1
Alternative 2 with Project-Related VMT Emissions	412.1	372.1	529.3	534.1
Original Project with Cumulative VMT Emissions	432.3	392.8	551.4	555.5
Alternative 2 with Cumulative VMT Emissions	398.9	363.0	478.0	481.6

### 3.4 OPERATIONAL GHG EMISSION RESULTS

There are five sources of GHG emissions associated with the proposed project: area (e.g., fireplace hearths), energy (natural gas combustion and electrical energy generation), mobile, waste, and water. These sources were grouped into non-mobile and mobile-source emissions. Non-mobile source GHG emissions are calculated with the CalEEMod model and are shown in Appendix E. Mobile-source GHG emissions are calculated with EMFAC2017 and are shown in Appendix D. The results of the emission calculations are shown in Table 3-8 for non-mobile emissions, Table 3-9 for mobile emissions, and Table 3-10 for total GHG emissions. In the tables, Global Warming Potential is reported as CO<sub>2</sub> equivalent (CO<sub>2</sub>e). The values in Table 3-10 are the sum of Table 3-8 and 3-9. (Note in Table 3-8 that there is no change in non-mobile emissions among the BAU, Project-Related VMT, and Cumulative VMT scenarios). To be consistent with County procedures, EMFAC2017 was used to estimate mobile-source GHG emissions instead of CalEEMod. Sacramento County does not use CalEEMod for transportation-related greenhouse gas (GHG) emissions because it cannot adequately capture the trip redistribution of a project, as it does not take into account regional travel dynamics.

Therefore, for GHG emission calculations, CalEEMod was used only to determine the BAU vehicle miles traveled.

The current Version 2016.3.2 of CalEEMod used for this analysis calculates CO<sub>2</sub>e using the most recent GWP values promulgated by the United States Environmental Protection Agency (USEPA) on November 29, 2013 (78 Federal Register 71904-71981). GHG emissions are reported in terms of metric tons per year (MT/yr)

**Table 3-8  
Annual Non-Mobile Source GHG Emissions**

<b>Alternative</b>	<b>CO<sub>2</sub> (MT/yr)</b>	<b>CH<sub>4</sub> (MT/yr)</b>	<b>N<sub>2</sub>O (MT/yr)</b>	<b>CO<sub>2</sub>e (MT/yr)</b>
BAU Original Project Annual Emissions	16,621	180	0.7	21,341
Original Project with Project-Related VMT Annual Emissions	16,621	180	0.7	21,341
Original Project with Cumulative VMT Annual Emissions	16,621	180	0.7	21,341
BAU Alternative 2 Annual Emissions	13,425	124	0.7	16,744
Alternative 2 with Project-Related VMT Annual Emissions	13,425	124	0.7	16,744
Alternative 2 with Cumulative VMT Annual Emissions	13,425	124	0.7	16,744

**Table 3-9  
Annual Mobile-Source GHG Emissions**

<b>Alternative</b>	<b>CO<sub>2</sub> (MT/yr)</b>	<b>CH<sub>4</sub> (MT/yr)</b>	<b>N<sub>2</sub>O (MT/yr)</b>	<b>CO<sub>2</sub>e (MT/yr)</b>
BAU Original Project Annual Emissions	66,151	3.3	3.1	67,149
Original Project with Project-Related VMT Annual Emissions	37,007	3.7	1.7	37,603
Original Project with Cumulative VMT Annual Emissions	31,052	3.1	1.4	31,540
BAU Alternative 2 Annual Emissions	61,855	3.1	2.9	62,788
Alternative 2 with Project-Related VMT Annual Emissions	35,340	3.7	1.8	35,957
Alternative 2 with Cumulative VMT Annual Emissions	27,941	3.6	1.3	28,405

**Table 3-10  
Annual Total GHG Emissions**

<b>Alternative</b>	<b>CO<sub>2</sub> (MT/yr)</b>	<b>CH<sub>4</sub> (MT/yr)</b>	<b>N<sub>2</sub>O (MT/yr)</b>	<b>CO<sub>2</sub>e (MT/yr)</b>
BAU Original Project Annual Emissions	82,772	184	4	88,490
Original Project with Project-Related VMT Annual Emissions	53,628	184	3	58,944
Original Project with Cumulative VMT Annual Emissions	47,673	183	2	52,881
BAU Alternative 2 Annual Emissions	75,280	127	4	79,532
Alternative 2 with Project-Related VMT Annual Emissions	48,765	128	3	52,701
Alternative 2 with Cumulative VMT Annual Emissions	41,366	128	2	45,149

### 3.5 OPERATIONAL PM EMISSION RESULTS

Appendix E contains the CalEEMod reports that show the total operational PM emissions. The results are summarized in Table 3-11.

**Table 3-11  
Total Operational PM Annual Emissions**

<b>Alternative</b>	<b>Fugitive PM<sub>10</sub> (tpy)</b>	<b>Exhaust PM<sub>10</sub> (tpy)</b>	<b>Total PM<sub>10</sub> (tpy)</b>	<b>Fugitive PM<sub>2.5</sub> (tpy)</b>	<b>Exhaust PM<sub>2.5</sub> (tpy)</b>	<b>Total PM<sub>2.5</sub> (tpy)</b>
BAU Original Project Annual Emissions	88.7	1.5	90.2	23.8	1.4	25.2
Original Project with Project-Related VMT Annual Emissions	47.1	1.3	48.4	12.6	1.3	13.9
Original Project with Cumulative VMT Annual Emissions	38.1	1.3	39.4	10.2	1.2	11.4
BAU Alternative 2 Annual Emissions	83.0	1.3	84.2	22.2	1.2	23.5
Alternative 2 with Project-Related VMT Annual Emissions	42.2	1.1	43.2	11.3	1.1	12.4
Alternative 2 with Cumulative VMT Annual Emissions	33.8	1.1	34.9	9.0	1.0	10.1

Note that the total may not exactly equal the sum of fugitive plus exhaust emissions due to round off differences.

## 4 AIR QUALITY MITIGATION PLAN

### 4.1 OPERATIONAL ROG AND NO<sub>x</sub> EMISSIONS AS ORIGINALLY PROPOSED

SMAQMD Guidance recommends that a project that emits more than 65 lb/day of NO<sub>x</sub> or ROG reduce emissions by least 35 percent from BAU if the project is not part of the SIP (which is the case for the Jackson Township Specific Plan). Version 4.0 of the Guidance (dated November 30, 2017) specifies the percent reduction is applied to annual mobile-only emissions.

To evaluate the Jackson Township Specific Plan, the annual mobile-only emissions as planned were compared to emissions that would occur with a typical development with the same detailed land uses as proposed. Emissions that would occur with a typical development instead of the mitigation measures designed into the planned project are termed BAU emissions. To calculate the BAU emissions, the detailed land uses were entered into CalEEMod and the emissions model run with the CalEEMod default vehicle trip frequency and mileage that that are typical of projects in Sacramento County. The BAU emissions reports are shown in Appendix G. Emissions calculated by CalEEMod for BAU were then compared to emissions from the project as proposed with mitigation. The results for mobile-only annual emissions are shown in Tables 4-1 and 4-2 for the Project-Related VMT and Cumulative VMT scenarios.

**Table 4-1  
Comparison of BAU and Jackson  
ROG and NO<sub>x</sub> Annual Mobile-Only Emissions for Project-Related VMT**

Alternative	ROG	NO <sub>x</sub>
BAU Original Project Annual Mobile-Only Emissions	18.7 tpy	97.9 tpy
Project-Related VMT Original Project Annual Mobile-Only Emissions	14.7 tpy	77.8 tpy
<b>Percent Reduction</b>	<b>21.4%</b>	<b>20.5%</b>
BAU Alternative 2 Annual Mobile-Only Emissions	17.8 tpy	93.6 tpy
Project-Related VMT Alternative 2 Annual Mobile-Only Emissions	13.5 tpy	71.4 tpy
<b>Percent Reduction</b>	<b>24.2%</b>	<b>23.7%</b>

**Table 4-2  
Comparison of BAU and Jackson  
ROG and NO<sub>x</sub> Annual Mobile-Only Emissions for Cumulative VMT**

<b>Alternative</b>	<b>ROG</b>	<b>NO<sub>x</sub></b>
BAU Original Project Annual Mobile-Only Emissions	18.7 tpy	97.9 tpy
Cumulative VMT Original Project Annual Mobile-Only Emissions	12.9 tpy	68.3 tpy
<b>Percent Reduction</b>	<b>31.0%</b>	<b>30.2%</b>
BAU Alternative 2 Annual Mobile-Only Emissions	17.8 tpy	93.6 tpy
Cumulative VMT Alternative 2 Annual Mobile-Only Emissions	11.5 tpy	61.1 tpy
<b>Percent Reduction</b>	<b>35.4%</b>	<b>34.7%</b>

As shown in Table 4-1, under the Project-Related VMT scenarios the Original Project and Alternative 2 achieve approximately a 21 to 24 percent reduction of ROG and NO<sub>x</sub> from business as usual mobile-only annual emissions. Under the Cumulative VMT scenarios, the Original Project achieves about a 30 percent reduction and Alternative 2 achieves about a 35 percent reduction in ROG and NO<sub>x</sub> as shown in Table 4-2. Percent reduction was calculated per SMAQMD Guidance as follows:

$$\text{Percent Reduction} = [(\text{BAU emissions} - \text{Mitigated Emissions}) / \text{BAU Emissions}] \times 100$$

The difference between BAU emissions and the proposed project emissions is related to the difference in vehicle travel. The VMT projected in the Traffic Study under the Project-Related scenarios for the Original Project and Alternative 2 as proposed is about 47 to 49 percent less than the VMT calculated by CalEEMod for BAU; and under the Cumulative VMT scenarios the VMT projected for the Original Project and Alternative 2 as proposed is about 57 to 59 percent less than the VMT calculated by CalEEMod for BAU. The reduction in vehicle travel and emissions of NO<sub>x</sub> and ROG are accomplished through a large number of Jackson project design features proposed by the Applicant. The features that reduce emissions include, but are not limited to, the following. Where applicable, the related CAPCOA<sup>5</sup> Greenhouse Gas Mitigation Measure is noted. However, the CAPCOA emission reduction percentages for the noted measures were not used, the Traffic Study VMT was used to calculate emissions.

<sup>5</sup> CAPCOA, *ibid.*

## LOCATION

- Project is located in a suburban center within approximately 10 miles of the Sacramento downtown central business district and less than 5 miles from other existing high-density commercial/job center areas (LUT-2 and LUT-3).
- Project is located adjacent to other planned developments such that single-use trips are minimized, i.e., there are more pass-by and diverted trips (LUT-3 and LUT-4)

## DENSITY/MIX

- Project provides a compact mix of land uses in close proximity to each other with a highly connected street and trail network (LUT-3).
- Project design is for high and medium density housing for over half of the total project dwelling units (LUT-1).
- Housing density is better than 9.5 dwelling units per acre (LUT-1).
- Project includes below market rate housing (LUT-6).
- Approximately 15 percent of the total commercial square footage is dedicated to a mixed-use facility that combines residences and commercial/retail uses (LUT-3).

## INTERNAL PROXIMITY

- Most residential units are within 1,320 feet (one-quarter mile) of a neighborhood park, open space, school, and/or bicycle/pedestrian trail (LUT-3).
- Most residential units are less than one-half mile from shopping and services (LUT-4).
- Project design includes locating at least four schools within the project boundaries such that most students can walk to a local school (LUT-3 and LUT-4).
- Project design includes at least eight parks within the project boundaries such that residents can walk/bike to enjoy the parks (LUT -3 and LUT-4).

## MULTI- MODAL EFFICIENCY

- Project design is based on a network of streets in a grid pattern (LUT-8).
- Project design includes access to high frequency bus service that connects to the Watt/Manlove light rail station (LUT-5).

- Bus routes are signalized in order to avoid traffic delays (TST-4).
- Project design promotes a multi-modal system that makes public transit, walking, and bicycling viable and attractive travel choices for residents and employees. Features include:
  - Adequate bike parking at non-residential locations, including the transit center and park and ride locations (TST-5)
  - Showers/lockers and other end of trip facilities at non-residential buildings (TRT-5)
  - Long-term bike parking facilities (TST-5)
- Project includes an extensive pedestrian path and trail system that is convenient and accessible from homes, school, parks, employment and shopping (LUT-8).
- Pedestrian and bike paths minimize any barriers to pedestrian/bicycle use, e.g., fences, berms and other impediments are eliminated where possible (LUT-8 and TST-2).

#### TRANSIT SUPPORTIVE

- Project includes an on-site transit center and park and ride facilities along the designated transit route of Jackson Highway (LUT-5, TST-1, TST-2, TST-3, and RPT-4).
- Project subsidizes bus rapid transit lanes on Jackson Highway (TST-1, TST-4, and RPT-3).
- Project funding and design will result in bus headways of 15 minutes or better (TST-1, TST-4, RPT-2, and RPT-3).
- Project includes joining a Transportation Management Association (TMA) funded through assessments (RPT-3). Although the project will include a TMA, no VMT reduction from the TMA has been calculated or included in the Traffic Study.
- Project includes assessments for regional transportation improvements (RPT-3).

#### 4.2 ADDITIONAL QUANTIFIED MITIGATION

In order to achieve the SMAQMD 35 percent reduction requirement for Alternative 2, the Applicant is proposing additional ROG and NO<sub>x</sub> mitigation as follows. The first set of additional mitigation measures described below result in a percent reduction of mobile ROG and NO<sub>x</sub> emissions due to a reduction in VMT.

- Enhanced Transit Program for the Jackson Township. The Applicant will be implementing a program to provide a non-revocable funding mechanism that would pay for bus and/or shuttle operations between the project and the Manlove Light Rail Station. The non-revocable funding mechanism would be administered by the County and would provide residents and employees of Jackson Township with transit passes that would access the entire Regional Transit system. As shown in Appendix L, PER has modeled the VMT reduction from this program, and found that the VMT reduction would be 0.6 percent<sup>6</sup>. Thus the program will result in a 0.6 percent reduction of mobile ROG and NO<sub>x</sub> emissions.

Per the CAPCOA definitions, the proposed Jackson Township is considered by the SMAQMD to be a “suburban center” project (per the Table on Page 59 of the CAPCOA guidance). The CAPCOA Guidelines establish a global cap of 20 percent reduction for all transportation mitigation for suburban center projects. The Traffic Study (not including the Enhanced Transit Program) showed a VMT reduction greater than 20 percent. Although the Enhanced Transit Program reduces VMT by another 0.6 percent; because the VMT reduction from the Enhanced Transit Program is calculated on a project-specific basis using local data and substantial evidence, it is allowed to exceed the global cap as an additional credit.

The effectiveness of the following second set of additional ROG and NO<sub>x</sub> mitigation measures is based on emissions from the BAU CalEEMod run (Appendix G2) as described below.

- Energy Efficient Boilers (BE-5). Energy efficient boilers would be used as applicable in high-density housing (mid-rise apartments), discount club, office, high school, and supermarket land uses. Per CAPCOA, efficiency improvements range from 1.2 to 9.1 percent for fan assisted, non-condensing boilers and 4.5 to 18.4 percent for fan assisted, condensing boilers. An efficiency improvement of 9.1 percent was assumed. The improvement applies only to natural gas fueled emissions and the benefit of this mitigation measure is shown in Table 4-3a. To avoid double counting of emission reductions from the electric hot water heater mitigation measure for high density housing, only 40 percent of the natural gas emissions were considered to be related to energy uses that could be provided by the boilers. The 40 percent value comes from the California Energy Commission 2009 California Residential Appliance Saturation Study (2009 RASS)<sup>7</sup> that

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<sup>6</sup> E-mail from Mr. John Long, DKS Associates, to Mr. Todd Smith, County PER, dated May 22, 2018.

<sup>7</sup> 2009 California Residential Appliance Saturation Study, October 2010. Prepared for the California Energy Commission and available at: [www.energy.ca.gov/appliances/rass](http://www.energy.ca.gov/appliances/rass).



indicated 37 percent of natural gas usage is for space heating and 3 percent is for pools/spas, or a total of 40 percent related to hot water provided by boilers (2009 RASS, Volume 1, Figure ES-6, Page 9).

- Residential Electric Hot Water Heaters.** Electric Hot Water Heaters would be installed in all single and multi-family housing units (low, medium, and high density), or a total of 5,690 dwelling units for Alternative 2. The ROG and NO<sub>x</sub> reductions associated with this mitigation measure were calculated from Section 5.2 of the CalEEMod BAU modeled emissions from natural gas energy use (Appendix G2). CalEEMod (Appendix G2) shows the total residential natural gas combustion emissions as presented in Table 4-3b. CalEEMod based residential energy use on data collected by the 2009 RASS, which reported that 49 percent of residential natural gas usage is for hot water heating (2009 RASS, Volume 1, Figure ES-6, Page 9). The 49 percent value was applied to the total residential natural gas emissions to calculate the amount of ROG and NO<sub>x</sub> that would be reduced by installing electric hot water heaters in all residential units, shown in Table 4-3b.

**Table 4-3a  
ROG and NO<sub>x</sub> Reductions for Alternative 2 Energy Efficient Boilers**

	<b>ROG (tpy)</b>	<b>NO<sub>x</sub> (tpy)</b>
40% of Pre-Mitigation BAU Mid-Rise Apartment Emissions	0.002	0.016
40% of Pre-Mitigation BAU Mid-Rise Apartment Emissions	0.039	0.329
Pre-Mitigation BAU Discount Club Emissions	0.005	0.046
Pre-Mitigation BAU General Office Emissions	0.047	0.424
Pre-Mitigation BAU High School Emissions	0.018	0.161
Pre-Mitigation BAU Supermarket Emissions	0.008	0.074
Total Pre-Mitigation BAU Boiler Emissions	0.119	1.050
<b>Energy Efficient Boiler Reduction (9.1% of Pre-Mitigation Total)</b>	<b>- 0.01</b>	<b>- 0.10</b>

**Table 4-3b  
ROG and NO<sub>x</sub> Reductions for Alternative 2 Residential Electric Hot Water Heaters**

	<b>ROG (tpy)</b>	<b>NO<sub>x</sub> (tpy)</b>

BAU Mid-Rise (Multi-Use) Apartment Emissions from Natural Gas Combustion	0.0047	0.0402
BAU Mid-Rise Apartment Emissions from Natural Gas Combustion	0.0964	0.8234
BAU Single Family Housing Emissions from Natural Gas Combustion s	0.4286	3.6628
BAU Total Residential Emissions from Natural Gas Combustion	0.5297	4.5264
Percent of Natural Gas Usage for Hot Water Heating	49%	49%
<b>Emissions Reduced if All Residential Hot Water Heating were Electric</b>	<b>0.26</b>	<b>2.22</b>

The third set of mitigation measures involves electric vehicle charging stations.

- Public Electric Vehicle Charging Stations. Electric charging stations will be installed at up to 10 percent of the Jackson parking spaces at commercial, retail, and office parking lots and up to 5 percent at school parking lots. Appendix K shows the electric vehicle parking space calculations. First, the number of parking spaces was determined for commercial, retail, office, and school land uses. This is shown in Appendix K-5 and uses the data from Appendix B. Then it was assumed that up to 10 percent of the parking spaces would have an electric vehicle charging station connection, except for schools where it was assumed that up to 5 percent of the spaces would have a connection. Each electric vehicle charging station has 2 connections, so, as shown in Appendix K-5, there would be up to 480 charging stations installed.

It was then assumed that each connection would be used an average of 3 hours per day at a charging rate of 6 kWh per hour (see Appendix K-7). The VMT from the amount of electrical energy charged would offset an equivalent VMT of gasoline-fueled driving. As shown in Appendix K-7, new electric vehicles have an efficiency of 31.5 kWh per 100 miles. Thus the chargers offset about 20 million miles of gasoline-fueled travel. EMFAC2017 was used to determine emission factors (grams per mile) for calendar year 2035 from gasoline-fueled vehicles, as shown in Appendix K-6. Only running emission factors were used to calculate the emissions reduction from the public charging stations because the public stations can be used by visitors to Jackson rather than Jackson-related vehicles. Appendix K-7 shows that the 480 electric charging stations reduce ROG by 0.33 tons per year and NO<sub>x</sub> by 0.63 tons per year.

- Residential Electric Vehicle Charging Stations. All low density and medium density dwelling units (3,540 dwelling units for Alternative 2) plus 10 percent of the high density residential housing (10 percent of 2,050 dwelling units for Alternative 2, or 205 units in high density housing) will be pre-wired for home electric charging stations so that residents can easily install an electric charger for their electric vehicle. Appendix K-7 shows the calculations for the emission reductions that would result from home electric chargers/vehicles. For this calculation, it was assumed that if a household had an electric vehicle, it would offset all of the conventionally-fueled VMT for the household. It was assumed that up to 15 percent of the pre-wired households would take advantage of the pre-wiring and install a charging station for an electric vehicle. To calculate the emission reduction, an average VMT per Jackson Township household was first calculated from the Project-Related VMT and from the Cumulative VMT scenarios. Then 15 percent of the VMT associated with the pre-wired households was calculated (15 percent of 3,540 plus 205 pre-wired dwelling units times the average VMT per household) to represent the amount of electric VMT that would offset conventionally-fueled VMT. The ratio of electric VMT to total VMT was applied to the Project-Related and Cumulative VMT CalEEMod mobile-only emissions of ROG and NO<sub>x</sub> to calculate the emission reduction. The reduction in emissions was derived only from the Project-Related VMT and Cumulative VMT emissions (not BAU) because the residents who use the home chargers would be offsetting only the previously mitigated VMT, not the business as usual VMT.

The total additional mitigation achieved for ROG and NO<sub>x</sub> is shown in Tables 4-4 and 4-5. The Tables also show that the SMAQMD 35 percent reduction target is achieved when the additional quantified mitigation is applied.

**Table 4-4  
Additional Mitigation ROG and NO<sub>x</sub> Emission Reductions for  
Alternative 2 Project-Related VMT**

Mitigation Measure	CAPCOA Sub-Category	Percent Reduction	Mobile Only ROG Annual Emissions and Reductions (tpy)	Mobile Only NO <sub>x</sub> Annual Emissions and Reductions (tpy)
Alternative 2 Emissions (CalEEMod and EMFAC BAU)	Baseline	Baseline	17.8	93.6
Emission Reductions from Traffic Study VMT – Project-Related VMT (Difference between Project-Related VMT and BAU VMT emissions)	Numerous	CalEEMod ROG, NO <sub>x</sub>	- 4.3	- 22.2
Enhanced Transit Program	Not Specified	0.6% Mobile ROG, NO <sub>x</sub>	- 0.11	- 0.56
Energy Efficient Boilers	BE-5	9.1% Boiler ROG, NO <sub>x</sub>	- 0.01	- 0.10
Residential Electric Hot Water Heaters	Not Specified	CalEEMod ROG and NO <sub>x</sub>	- 0.26	- 2.22
Public Electric Vehicle Charging Stations (commercial, office, retail, schools)	Not Specified	Electric/VMT-Equivalent Calculations	- 0.33	- 0.63
Residential Electric Vehicle Charging Stations (Low, medium, and high density housing)	Not Specified	Electric/VMT-Equivalent Calculations	- 1.33	- 7.05
<b>Total Reductions</b>	<b>NA</b>		<b>- 6.3</b>	<b>- 32.8</b>
Reductions Needed to Achieve 35% Requirement	NA		- 6.2	- 32.8

ROG and NO<sub>x</sub> reductions needed are 35 percent of BAU.

**Table 4-5  
Additional Mitigation ROG and NO<sub>x</sub> Emission Reductions for  
Alternative 2 Cumulative VMT**

Mitigation Measure	CAPCOA Sub-Category	Percent Reduction	Mobile Only ROG Annual Emissions and Reductions (tpy)	Mobile Only NO <sub>x</sub> Annual Emissions and Reductions (tpy)
Alternative 2 Emissions (CalEEMod and EMFAC BAU)	Baseline	Baseline	17.8	93.6
Emission Reductions from Traffic Study VMT – Cumulative VMT (Difference between Cumulative VMT and BAU VMT emissions)	Numerous	CalEEMod ROG, NO <sub>x</sub>	- 6.3	- 32.5
Enhanced Transit Program	Not Specified	0.6% Mobile ROG, NO <sub>x</sub>	- 0.11	- 0.56
Energy Efficient Boilers	BE-5	9.1% Boiler ROG, NO <sub>x</sub>	- 0.01	- 0.10
Residential Electric Hot Water Heaters	Not Specified	CalEEMod ROG and NO <sub>x</sub>	- 0.26	- 2.22
Public Electric Vehicle Charging Stations	Not Specified	Electric/VMT-Equivalent Calculations	- 0.33	- 0.63
Residential Electric Vehicle Charging Stations (Low, medium, and high density housing)	Not Specified	Electric/VMT-Equivalent Calculations	- 1.14	- 6.03
<b>Total Reductions</b>	<b>NA</b>		<b>- 8.2</b>	<b>- 42.0</b>
Reductions Needed to Achieve 35% Requirement	NA		- 6.2	- 32.8

ROG and NO<sub>x</sub> reductions needed are 35 percent of BAU.

#### 4.3 ADDITIONAL NON-QUANTIFIED MITIGATION

The project includes a number of additional features that also reduce potential emissions, but Kleinfelder has not incorporated the benefit of those measures into the emission estimates and calculated reductions. Among the additional measures proposed by the Applicant are the following. Where applicable, the related CAPCOA Greenhouse Gas Mitigation Measure is noted, although it is recognized that the following measures only indirectly reduce ROG and NO<sub>x</sub>, as they are primarily GHG reduction measures.

- Low flow bathroom, kitchen, showers, and toilets in all residential units and commercial buildings (WUW-1).
- Reduced square footage of residential turf due to the increased housing density (WUW-5).

- Water efficient irrigation systems and water efficient landscaping for the non-residential areas (WUW-3 and WUW-4).
- Preserved wetlands and creation of greenbelt, parks, and other vegetative areas totaling approximately 360 acres for the Original Project and 400 acres for Alternative 2; more than 25 percent of the project area (V-2).
- VMT reduction resulting from membership in a Transportation Management Association (TMA).

In addition to the above project mitigation measures, if Jackson is fully built out, the Sacramento Raceway land would become part of the project. In that case the Raceway would either re-locate or would cease operations. In both cases there would be an additional emissions decrease of NO<sub>x</sub> and ROG, but Kleinfelder did not include the magnitude of that decrease in the above percent reduction calculation.

Finally, the mobile-source emission estimates are over-stated because they do not account for the very large electric vehicle penetration and other changes in transportation that will have to occur if California is to reach the 2050 GHG reduction goal. Reductions in mobile-source GHG will also reduce mobile-source ROG and NO<sub>x</sub>.

## 5 GREENHOUSE GAS REDUCTION PLAN

This section evaluates both the percent reduction in GHG emissions as a result of the proposed project compared to BAU (Subsection 5.1) and the Sacramento County GHG Thresholds (Subsection 5.2). There are no percent reduction thresholds, but the reduction is shown below as a point of information.

### 5.1 PERCENT REDUCTION IN VMT COMPARED TO BAU

The mitigation measures that reduce NO<sub>x</sub> and ROG emissions also significantly reduce GHG emissions because for the Jackson Township Specific Plan, NO<sub>x</sub>, ROG and GHG emissions are all associated with combustion.

To evaluate GHG emissions, Kleinfelder compared the total annual emissions for the project as proposed to emissions that would occur with a typical development with the same detailed land uses but BAU for vehicle travel. To calculate the non-mobile BAU emissions, Kleinfelder entered the detailed land uses into CalEEMod as reported in Section 3 and shown in Appendix G. To calculate mobile source emissions, Kleinfelder used the EMFAC2017 emission factors as discussed in Section 3 and shown in Appendix D. The results are shown in Tables 5-1 and 5-2 for the Project-Related VMT and the Cumulative VMT scenarios. Note that the non-mobile GHG emissions do not change between Project-Related and Cumulative VMT scenarios.

**Table 5-1  
Comparison of BAU and Jackson Total GHG Emissions  
for the Project-Related VMT Scenarios**

Alternative	Non-Mobile CO <sub>2</sub> e (MT/yr)	Mobile CO <sub>2</sub> e (MT/yr)	Total CO <sub>2</sub> e (MT/yr)
BAU Original Project Annual Emissions	21,341	67,149	88,490
Original Project Project-Related VMT Annual Emissions	21,341	37,603	58,944
<b>Percent Reduction</b>	<b>0%</b>	<b>44.0%</b>	<b>33.3%</b>
BAU Alternative 2 Annual Emissions	16,744	62,788	79,532
Alternative 2 Project-Related VMT Annual Emissions	16,744	35,957	52,701
Percent Reduction	<b>0%</b>	<b>42.7%</b>	<b>33.7%</b>

**Table 5-2  
Comparison of BAU and Jackson Total GHG Emissions  
for the Cumulative VMT Scenarios**

<b>Alternative</b>	<b>Non-Mobile CO<sub>2</sub>e (MT/yr)</b>	<b>Mobile CO<sub>2</sub>e (MT/yr)</b>	<b>Total CO<sub>2</sub>e (MT/yr)</b>
BAU Original Project Annual Emissions	21,341	67,149	88,490
Original Project Cumulative VMT Annual Emissions	21,341	31,540	52,881
<b>Percent Reduction</b>	<b>0%</b>	<b>53.0%</b>	<b>40.2%</b>
BAU Alternative 2 Annual Emissions	16,744	62,788	79,532
Alternative 2 Cumulative VMT Annual Emissions	16,744	28,405	45,149
<b>Percent Reduction</b>	<b>0%</b>	<b>54.8%</b>	<b>43.2%</b>

As shown in Tables 5-1 and 5-2, the Original Project and Alternative 2 as proposed achieve a 33 to 43 percent reduction in total annual CO<sub>2</sub>e emissions from BAU and 43 to 55 percent less than BAU for mobile-only emissions. The reduction is due to reduced vehicle travel that results from the mitigation measures designed into the Proposed Project and Alternative 2. The VMT projected in the Traffic Study under the Project-Related scenarios for the Original Project and Alternative 2 as proposed is 47 to 49 percent less than the VMT calculated by CalEEMod for BAU; and under the Cumulative VMT scenarios the VMT projected for the Original Project and Alternative 2 as proposed is 57 to 59 percent less than the VMT calculated by CalEEMod for BAU. The reduction in vehicle travel and emissions of GHG are the same measures that result in large reductions of NO<sub>x</sub> and ROG. These mitigation features are repeated here, and include, but are not limited to, the following. Where applicable, the related CAPCOA Greenhouse Gas Mitigation Measure is noted. However, the CAPCOA emission reduction percentages for the noted measures were not used, the Traffic Study VMT was used to calculate emissions.

#### LOCATION

- Project is located in a suburban center within approximately 10 miles of the Sacramento downtown central business district and less than 5 miles from other existing high density commercial areas (LUT-2 and LUT-3).
- Project is located adjacent to other planned developments such that single-use trips are minimized, i.e., there are more pass-by and diverted trips (LUT-3 and LUT-4)



## DENSITY/MIX

- Project provides a compact mix of land uses in close proximity to each other with a highly connected street and trail network (LUT-3).
- Project design is for high and medium density housing for over half of the total project dwelling units (LUT-1).
- Housing density is better than 9.5 dwelling units per acre (LUT-1).
- Project includes below market rate housing (LUT-6).
- Approximately 15 percent of the total commercial square footage is dedicated to a mixed-use facility that combines residences and commercial/retail uses (LUT-3).

## INTERNAL PROXIMITY

- Most residential units are within 1,320 feet (one-quarter mile) of a neighborhood park, open space, school, and/or bicycle/pedestrian trail (LUT-3).
- Most residential units are less than one-half mile from shopping and services (LUT-4).
- Project design includes locating at least four schools within the project boundaries such that most students can walk to a local school (LUT-3 and LUT-4).
- Project design includes at least eight parks within the project boundaries such that residents can walk/bike to enjoy the parks (LUT-3 and LUT-4)..

## MULTI- MODAL EFFICIENCY

- Project design is based on a network of streets in a grid pattern (LUT-8).
- Project design includes access to high frequency bus service that connects to the Watt/Manlove light rail station (LUT-5).
- Bus routes are signalized in order to avoid traffic delays (TST-4).
- Project design promotes a multi-modal system that makes public transit, walking, and bicycling viable and attractive travel choices for residents and employees. Features include:
  - Adequate bike parking at non-residential locations, including the transit center and park and ride locations (TST-5)
  - Showers/lockers and other end of trip facilities at non-residential buildings (TRT-5)
  - Long-term bike parking facilities (TST-5)

- Project includes an extensive pedestrian path and trail system that is convenient and accessible from homes, school, parks, employment and shopping (LUT-8).
- Pedestrian and bike paths minimize any barriers to pedestrian/bicycle use, e.g., fences, berms and other impediments are eliminated where possible (LUT-8 and TST-2)).

## TRANSIT SUPPORTIVE

- Project includes an on-site transit center and park and ride facilities along the designated transit route of Jackson Highway (LUT-5, TST-1, TST-2, TST-3, and RPT-4).
- Project subsidizes bus rapid transit lanes on Jackson Highway (TST-1, TST-4, and RPT-3).
- Project funding and design will result in bus headways of 15 minutes or better (TST-1, TST-4, RPT-2, and RPT-3).
- Project includes joining a Transportation Management Association (TMA) funded through assessments (RPT-3). Although the project will include a TMA, no VMT reduction from the TMA has been calculated or included in the Traffic Study.
- Project includes assessments for regional transportation improvements (RPT-3).

## 5.2 COUNTY GHG THRESHOLDS

Kleinfelder also compared the Original Project and Alternative 2 GHG emissions to GHG thresholds published by PER. The County has adopted 2020 thresholds and proposed draft 2030 thresholds. The adopted and draft thresholds are shown in Table 5-3. Since full build out of Jackson is not anticipated until 2035, the draft 2030 GHG thresholds have been extrapolated to 2035 using a linear extrapolation of 2030 versus 2050 state-wide GHG reduction targets. PER specified a methodology based on the Mather South Draft EIR<sup>8</sup>. The methodology starts with baseline 1990 statewide GHG emissions of 431 million metric tons per year (MMT/yr) CO<sub>2</sub>e, reduces those emissions by 40 percent to reach the statewide target for 2030 of 259 MMT/yr [431 x (1-0.40) = 259], and then further reduces the baseline 1990 emissions by 80 percent to achieve the statewide target of 86 MMT/yr [431 x (1-0.80) = 86]. Accordingly, to meet the 2050 target, emissions in 2050 must be 66.67% less than emissions in 2030 (1 – 86/259 = 0.6667). This means that emissions must decrease an average of 3.33% per year

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<sup>8</sup> Memo from Mr. Todd Smith dated January 11, 2019.

over the 20 years between 2030 and 2050. Therefore, if a linear extrapolation is used, emissions in 2035 must be 16.65% less than in 2030. The 16.65% reduction was rounded to 17% and thus the draft 2030 thresholds were decreased by 17% to get 2035 draft extrapolated thresholds as shown in Table 5-3.

**Table 5-3  
Adopted and Draft Sacramento County GHG Emission Thresholds**

<b>Emission Source</b>	<b>2020 Adopted Thresholds</b>	<b>2030 Draft Thresholds</b>	<b>2035 Extrapolated Draft Thresholds</b>	<b>Threshold Units</b>
Residential Energy	1.33	0.78	0.65	MT/capita
Commercial & Industrial Energy	7.87	4.59	3.81	MT/1000 sf
Transportation	2.67	1.57	1.30	MT/capita
Trucks	0.10	0.08	0.07	MT/100 VMT

GHG emissions from the proposed project were compared to the extrapolated draft 2035 thresholds as shown in Tables 5-4 through 5-7. There is no completed development planned in 2020 (only construction); therefore, based on direction from PER, 2020 GHG emissions were not calculated for the project. (See Section 7 for discussion of construction GHG emissions). The values in Tables 5-4 through 5-7 come from the GHG threshold calculations shown in Appendix I. The values in Appendix I were extracted from the CalEEMod annual emissions report in Appendix E for non-mobile sources and the EMFAC2017 GHG emission calculations in Appendix D. The number of persons shown in the tables comes from the number of dwelling units (as stated by the Applicant) and an average of 2.64 persons per household used in the Proposed Project description.

For the Original Project, the number of dwelling units is 6,143 in single-family housing and apartments. Thus the total number of persons is 16,218. The square footage of commercial/industrial area is as presented in Table 2-1. For Alternative 2, the number of dwelling units is 5,690 in single-family housing and apartments. Thus the total number of persons is 15,022. The square footage of commercial/industrial area is as presented in Table 2-2.

**Table 5-4  
Original Project Project-Related VMT Scenario GHG Emission Thresholds**

<b>Emission Source</b>	<b>Total CO<sub>2</sub>e (MT/yr)</b>	<b>Persons/ Commercial Square Footage/Truck VMT/100</b>	<b>Original Project Emissions</b>	<b>Sacramento County Draft Extrapolated 2035 Thresholds</b>	<b>Threshold Units</b>
Residential Energy	9,095	16,218	0.56	0.65	MT/capita
Residential Energy Plus Schools	9,439	16,218	0.58	0.65	MT/capita
Commercial/Industrial Energy	3,406	1,996,100	1.71	3.81	MT/Kft <sup>2</sup>
Transportation	37,603	16,218	2.32	1.30	MT/capita
Trucks	2,632	88,556.2	0.03	0.07	MT/100 VMT

**Table 5-5  
Alternative 2 Project-Related VMT Scenario GHG Emission Thresholds**

<b>Emission Source</b>	<b>Total CO<sub>2</sub>e (MT/yr)</b>	<b>Persons/ Commercial Square Footage/Truck VMT/100</b>	<b>Alternative 2 Emissions</b>	<b>Sacramento County Draft Extrapolated 2035 Thresholds</b>	<b>Threshold Units</b>
Residential Energy	7,959	15,022	0.53	0.65	MT/capita
Residential Energy Plus Schools	8,307	15,022	0.55	0.65	MT/capita
Commercial/Industrial Energy	2,258	2,022,100	1.12	3.81	MT/Kft <sup>2</sup>
Transportation	35,957	15,022	2.39	1.30	MT/capita
Trucks	2,517	79,257.6	0.03	0.07	MT/100 VMT

**Table 5-6  
Original Project Cumulative VMT Scenario GHG Emission Thresholds**

<b>Emission Source</b>	<b>Total CO<sub>2</sub>e (MT/yr)</b>	<b>Persons/ Commercial Square Footage/Truck VMT/100</b>	<b>Original Project Emissions</b>	<b>Sacramento County Draft Extrapolated 2035 Thresholds</b>	<b>Threshold Units</b>
Residential Energy	9,095	16,218	0.56	0.65	MT/capita
Residential Energy Plus Schools	9,439	16,218	0.58	0.65	MT/capita
Commercial/Industrial Energy	3,406	1,996,100	1.71	3.81	MT/Kft <sup>2</sup>
Transportation	31,540	16,218	1.94	1.30	MT/capita
Trucks	2,208	71,608.7	0.03	0.07	MT/100 VMT

**Table 5-7  
Alternative 2 Cumulative VMT Scenario GHG Emission Thresholds**

<b>Emission Source</b>	<b>Total CO<sub>2</sub>e (MT/yr)</b>	<b>Persons/ Commercial Square Footage/Truck VMT/100</b>	<b>Alternative 2 Emissions</b>	<b>Sacramento County Draft Extrapolated 2035 Thresholds</b>	<b>Threshold Units</b>
Residential Energy	7,959	15,022	0.53	0.65	MT/capita
Residential Energy Plus Schools	8,307	15,022	0.55	0.65	MT/capita
Commercial/Industrial Energy	2,258	2,022,100	1.12	3.81	MT/Kft <sup>2</sup>
Transportation	28,405	15,022	1.89	1.30	MT/capita
Trucks	1,988	63,508.4	0.03	0.07	MT/100 VMT

The emissions shown in Tables 5-4 through 5-7 do not include water or waste emissions as PER considers those as off-site emissions. The second row in the Tables is residential only, and does not include emissions from the elementary and high schools as those land uses are neither residential nor commercial. The third row in the tables is residential plus emissions from the elementary school plus one-half the emissions from the high school. Kleinfelder included only one-half of the emissions from the high school as the Applicant indicated that approximately one-half of the students attending the high school will be from residences not included in Jackson. The transportation emissions, however, include all land uses.

The Traffic Study does not separate out VMT by vehicle type. The County GHG Thresholds were derived based on an assumption by PER that 7 percent of the County VMT is due to trucks. Therefore, for purposes of calculating the GHG emission thresholds, it was assumed that 7 percent of the total VMT at Jackson would also be due to trucks.

In summary, the large number of design features incorporated into the Proposed Project and Alternatives result in a large reduction in emissions of GHG and, except for per capita transportation, a project that meets the Sacramento County draft extrapolated 2035 GHG thresholds. It is not surprising that the draft extrapolated 2035 per capita GHG transportation thresholds are not met, because they are based on the California statewide emission reduction target in 2050 of 80 percent less than 1990 emissions. In order to meet that target, there will have to be a very large electric vehicle penetration and/or other transportation changes that are not incorporated into the EMFAC2017 emission factors used to estimate 2035 emissions for the project.

### 5.3 ADDITIONAL QUANTIFIED MITIGATION AND GHG THRESHOLDS

As described in Section 4.2, the Applicant is proposing additional ROG and NO<sub>x</sub> mitigation in order to achieve the SMAQMD 35 percent reduction requirement. The ROG and NO<sub>x</sub> reduction measures also result in a reduction of CO<sub>2</sub> emissions. The CO<sub>2</sub> reductions resulting from the first set of ROG and NO<sub>x</sub> mitigation measures is as follows (detailed description of each measure is in Section 4.2):

- Enhanced Transit Program. The VMT reduction resulting from the program is 0.6 percent that reduces mobile CO<sub>2</sub> emissions by the same amount.

The second set of ROG and NO<sub>x</sub> mitigation measures will also reduce CO<sub>2</sub> emissions as shown in Table 5-8 (description of the measures is in Section 4.2). The second set of measures includes:

- Energy Efficient Boilers (BE-5). The energy efficient boilers discussed in Section 4.2 will decrease CO<sub>2</sub> emissions as shown in Table 5-8a.
- Residential Electric Hot Water Heaters. Installation of residential electric hot water heaters will decrease CO<sub>2</sub> emissions as shown in Table 5-8b.

**Table 5-8a**  
**CO<sub>2</sub> Reductions for Alternative 2 from Energy Efficient Boilers**

<b>Measure</b>	<b>CO<sub>2</sub>e (MT/yr)</b>
40% of Pre-Mitigation BAU Mid-Rise Apartment Emissions	19
40% of Pre-Mitigation BAU Mid-Rise Apartment Emissions	384
Pre-Mitigation BAU Discount Club Emissions	50
Pre-Mitigation BAU General Office Emissions	464
Pre-Mitigation BAU High School Emissions	176
Pre-Mitigation BAU Supermarket Emissions	80
Total Pre-Mitigation BAU Boiler Emissions	1,173
<b>Energy Efficient Boiler Reduction (9.1% of Pre-Mitigation Total)</b>	<b>- 107</b>

**Table 5-8b**  
**CO<sub>2</sub> Reductions from Residential Alternative 2 Electric Hot Water Heaters**

	<b>CO<sub>2</sub>e (MT/yr)</b>
BAU Mid-Rise (Multi-Use) Apartment Emissions from Natural Gas Combustion	47
BAU Mid-Rise Apartment Emissions from Natural Gas Combustion	959
BAU Single Family Emissions from Natural Gas Combustion s	4,267
BAU Total Residential Emissions from Natural Gas Combustion	5,273
Percent of Natural Gas Usage for Hot Water Heating	49%
Emissions Eliminated if All Residential Hot Water Heating were Electric	- 2,584
GHG Emissions from Electricity Needed by All Residential Hot Water Heaters (Note 1)	646
<b>Net GHG Reduction</b>	<b>- 1,938</b>

Note 1: GHG emissions from electricity needed for electric hot water heaters are 25 percent of the emissions from natural gas. Calculated from the 2009 RASS study that reported average electrical use for an electric hot water heater in California of 2,393 kWh/yr (2009 RASS, Volume 1, Table ES-2, Page 5) and natural gas use for a gas hot water heater of 193 therms/yr (2009 RASS, Volume 1, Table ES-3, Page 11). Electric GHG emissions for one hot water heater are thus 2,393 kWh/yr x 236.9 lb/MWh for SMUD x 0.001 MWh/kWh= 567 lb/yr. Natural Gas GHG emissions are thus 193 therms/yr x 0.1 mmBtu/therm x 53.06 kg/mmBtu natural gas combustion emission factor per 40 CFR 98 Table C-1 x 2.2 lb/kg = 2,253 lb/yr. Electric percentage of natural gas = 567 / 2253 = 0.25.

There are two additional CAPCOA mitigation measures that reduce CO<sub>2</sub> emissions as follows:

- High Efficacy Public Outdoor Lighting (LE-1). Different lighting systems use less electrical energy for the same amount of light (lumens). The CAPCOA Greenhouse Gas Mitigation measure LE-1 specifies that the minimum amount of improvement with high efficacy lighting is 16 percent. This value was entered into CalEEMod as a mitigation measure and the amount of CO<sub>2</sub> emissions from electrical energy use with high efficacy was compared to BAU as shown in Table 5-9.
- Energy Efficient Appliances (BE-4). Energy efficient appliances will reduce the amount of electrical energy used. Energy efficient appliances will be installed in all of the single family and multi-family dwelling units for clothes washers, dishwashers, fans, and refrigerators. The CO<sub>2</sub> emission reduction resulting from this mitigation measure was calculated with CalEEMod as shown in Table 5-9.

**Table 5-9  
CO<sub>2</sub> Reductions for Alternative 2 from CO<sub>2</sub>-Only Mitigation**

Measure	CO <sub>2</sub> (MT/yr)
<b>High Efficacy Public Outdoor Lighting</b>	
Pre-Mitigation BAU Alternative 2 Electrical Energy Emissions	2,811
Mitigated Electrical Energy Emissions	2,687
<b>Reduction (Commercial<sup>9</sup>)</b>	<b>- 124</b>
<b>Energy Efficient Appliances</b>	
BAU Alternative 2 Electrical Energy Emissions	2,811
Mitigated Electrical Energy Emissions	2,777
<b>Reduction (Residential)</b>	<b>- 34</b>

The third set of mitigation measures involves electric vehicle charging stations:

- Public Electric Vehicle Charging Stations. As shown in Appendix K-7, the 480 public electric vehicle charging stations will reduce CO<sub>2</sub> emissions by 4,022 metric tons per year.

<sup>9</sup> High efficacy lighting will be installed at all outdoor public spaces. Most of that lighting is associated with commercial and retail locations, but some of it is associated with residential buildings. For purposes of this emission reduction, it was assumed that the entire amount was commercial.



- Residential Electric Vehicle Charging Stations. The residential electric vehicle charging stations will reduce CO<sub>2</sub>e by 3,171 metric tons per year for the Project-Related VMT scenario and 2,501 metric tons per year for the Cumulative VMT scenario.

The total additional mitigation achieved for CO<sub>2</sub> is shown in Tables 5-10 and 5-11. In these tables, for non-mobile commercial, non-mobile residential, and public electric charging stations, it was assumed that CO<sub>2</sub> reduction was equivalent to CO<sub>2</sub>e reduction. This slightly understates the CO<sub>2</sub>e reduction amount. The Tables show the total CO<sub>2</sub>e reduction exceeds the amount needed to meet the draft extrapolated 2035 GHG Thresholds.

However, the GHG Thresholds are sector specific, so the individual reductions have been applied to the appropriate sector and the results are shown in Table 5-12 for the Project-Related VMT scenario and Table 5-13 for the Cumulative VMT scenario. The per capita Transportation draft extrapolated 2035 GHG Threshold is not met for either scenario, but for the other sectors, the emissions are much less than the target. Tables 5-14 and 5-15 shows that when the excess reductions from the other sectors are applied, the total GHG emissions are less than the Thresholds.

Recognizing that the GHG issue is a global issue based on total GHG emissions, regardless of sector, the County PER has indicated that excess emissions from one sector can be used to offset GHG emissions from other sectors in order to meet the individual GHG Thresholds.

For the Project-Related VMT scenario, if the emission reductions from the non-Transportation Sector that are greater than needed to meet the non-Transportation draft extrapolated 2035 thresholds were applied to the Transportation sector, the per capita Transportation emissions would be 1.26 MT/capita (28,387 MT/yr Transportation minus 5,711 Commercial minus 3,738 Residential MT excess reductions divided by 15,022 persons equals 1.26 MT/capita; which is less than the County 1.30 MT/capita draft extrapolated 2035 Transportation Threshold. For the Cumulative VMT scenario, the per capita Transportation emissions would be 0.80 MT/capita (21,505 MT/yr Transportation minus 5,711 Commercial minus 3,738 Residential MT excess reductions divided by 15,022 persons equals 0.80 MT/capita; which is much less than the County 1.30 MT/capita draft extrapolated 2035 Transportation Threshold.

**Table 5-10  
Additional CO<sub>2</sub> Mitigation Emission Reductions for  
Alternative 2 Project-Related VMT**

<b>Mitigation Measure</b>	<b>CAPCOA Sub-Category</b>	<b>Percent Reduction</b>	<b>CO<sub>2</sub>e Annual Emissions and Reductions (MT/yr)</b>
Alternative 2 Emissions (CalEEMod and EMFAC BAU)	Baseline	Baseline	62,788 Mobile
Emission Reductions from Traffic Study VMT – Project-Related VMT (Difference between Project-Related VMT and BAU VMT emissions)	Numerous	EMFAC CO <sub>2</sub> e	- 26,831 Mobile
Enhanced Transit Program	Not Specified	0.6% Mobile ROG, NO <sub>x</sub> , CO <sub>2</sub> e	- 377 Mobile
High Efficacy Public Outdoor Lighting	LE-1	CalEEMod CO <sub>2</sub> e	- 124 Commercial
Energy Efficient Appliances	BE-4	CalEEMod CO <sub>2</sub> e	- 34 Residential
Energy Efficient Boilers	BE-5	9.1% Boiler CO <sub>2</sub> e	- 107 Commercial
Residential Electric Hot Water Heaters	Not Specified	CalEEMod ROG and NO <sub>x</sub>	- 1,938 Residential
Public Electric Vehicle Charging Stations (commercial, office, retail, schools)	Not Specified	Electric/VMT-Equivalent Calculations	- 4,022 Mobile
Residential Electric Vehicle Charging Stations (Low, medium, and high density housing)	Not Specified	Electric/VMT-Equivalent Calculations	- 3,171 Mobile
<b>Total Reductions</b>			<b>- 36,604</b>
Reductions Needed to Achieve All Draft Extrapolated 2035 GHG Thresholds			- 9,170

CO<sub>2</sub>e reduction needed is difference between Residential and Commercial emissions in excess of draft extrapolated 2035 Thresholds less the Transportation shortfall per Appendix I-2.

**Table 5-11  
Additional CO<sub>2</sub> Mitigation Emission Reductions for  
Alternative 2 Cumulative VMT**

Mitigation Measure	CAPCOA Sub-Category	Percent Reduction	CO <sub>2</sub> e Annual Emissions and Reductions (MT/yr)
Alternative 2 Emissions (CalEEMod and EMFAC BAU)	Baseline	Baseline	62,788 Mobile
Emission Reductions from Traffic Study VMT – Project-Related VMT (Difference between Project-Related VMT and BAU VMT emissions)	Numerous	EMFAC CO <sub>2</sub> e	- 34,384 Mobile
Enhanced Transit Program	Not Specified	0.6% Mobile CO <sub>2</sub> e	- 377 Mobile
High Efficacy Public Outdoor Lighting	LE-1	CalEEMod CO <sub>2</sub> e	- 124 Commercial
Energy Efficient Appliances	BE-4	CalEEMod CO <sub>2</sub> e	- 34 Residential
Energy Efficient Boilers	BE-5	9.1% Boiler CO <sub>2</sub> e	- 107 Commercial
Residential Electric Hot Water Heaters	Not Specified	CalEEMod ROG and NO <sub>x</sub>	- 1,938 Residential
Public Electric Vehicle Charging Stations (commercial, office, retail, schools)	Not Specified	Electric/VMT-Equivalent Calculations	- 4,022 Mobile
Residential Electric Vehicle Charging Stations (Low, medium, and high density housing)	Not Specified	Electric/VMT-Equivalent Calculations	- 2,501 Mobile
<b>Total Reductions</b>			<b>- 43,487</b>
Reductions Needed to Achieve All Draft Extrapolated 2035 GHG Thresholds			- 1,618

CO<sub>2</sub>e reduction needed is difference between Residential and Commercial emissions in excess of draft extrapolated 2035 Thresholds less the Transportation shortfall per Appendix I-4.

**Table 5-12  
Alternative 2 Project-Related VMT Scenario GHG Emission Thresholds  
After Additional Mitigation**

Emission Sector	Total CO <sub>2</sub> e (MT/yr)	Persons/ Commercial Square Footage/ Truck VMT/100	Alternative 2 Project-Related VMT Emissions	Sacramento County Draft Extrapolated 2035 Thresholds	Threshold Units
Residential Energy	5,987	15,022	0.40	0.65	MT/capita
Residential Energy Plus Schools	6,335	15,022	0.42	0.65	MT/capita
Commercial/Industrial Energy	1,993	2,022,100	0.99	3.81	MT/Kft <sup>2</sup>
Transportation	28,387	15,022	1.89	1.30	MT/capita
Trucks	1,987	79,257.6	0.03	0.07	MT/100 VMT

**Table 5-13  
Alternative 2 Cumulative VMT Scenario GHG Emission Thresholds  
After Additional Mitigation**

Emission Sector	Total CO <sub>2</sub> e (MT/yr)	Persons/ Commercial Square Footage/ Truck VMT/100	Alternative 2 Cumulative VMT Emissions	Sacramento County Draft Extrapolated 2035 Thresholds	Threshold Units
Residential Energy	5,987	15,022	0.40	0.65	MT/capita
Residential Energy Plus Schools	6,335	15,022	0.42	0.65	MT/capita
Commercial/Industrial Energy	1,993	2,022,100	0.99	3.81	MT/Kft <sup>2</sup>
Transportation	21,505	15,022	1.43	1.30	MT/capita
Trucks	1,505	63,508.4	0.02	0.07	MT/100 VMT

**Table 5-14  
Alternative 2 Project-Related VMT Excess GHG Emission Reductions  
After Additional Mitigation**

Emission Sector	Alternative 2 Project Related VMT Emissions CO <sub>2</sub> e (MT/yr)	Allowed Emissions to Meet GHG Threshold (MT/yr)	CO <sub>2</sub> e Emission Reductions that are Greater (or less) than Needed to Meet the Draft Extrapolated 2035 GHG Thresholds (MT/yr)
Residential Energy	5,987	9,725	3,738
Commercial/Industrial Energy	1,993	7,704	5,711
Transportation	28,387	19,575	(8,812)
<b>Net Total</b>			<b>637</b>

Note 1: Truck and Residential Plus Schools is not shown in the Table because that would be double counting reductions from Transportation and Residential alone.

Note 2: The values in the Table are from the spreadsheets of Appendix I, and due to round off differences may not match exactly hand-calculated values from other Tables.

**Table 5-15  
Alternative 2 Cumulative VMT Excess GHG Emission Reductions  
After Additional Mitigation**

<b>Emission Sector</b>	<b>Alternative 2 Cumulative VMT Emissions CO<sub>2</sub>e (MT/yr)</b>	<b>Allowed Emissions to Meet GHG Threshold (MT/yr)</b>	<b>CO<sub>2</sub>e Emission Reductions that are Greater (or less) than Needed to Meet the Draft Extrapolated 2035 GHG Thresholds (MT/yr)</b>
Residential Energy	5,987	9,725	3,738
Commercial/Industrial Energy	1,993	7,704	5,711
Transportation	21,505	19,575	(1,930)
<b>Net Total</b>			<b>7,519</b>

Note 1: Truck and Residential Plus Schools is not shown in the Table because that would be double counting reductions from Transportation and Residential alone.

Note 2: The values in the Table are from the spreadsheets of Appendix I, and due to round off differences may not match exactly hand-calculated values from other Tables.

#### 5.4 ADDITIONAL NON-QUANTIFIED MITIGATION

The project includes a number of additional features that also reduce potential emissions, but the benefit of those measures has not been incorporated into the emission estimates and calculated reductions. Among the additional measures are the following. Where applicable, the related CAPCOA Greenhouse Gas Mitigation Measure is noted.

- Low flow bathroom, kitchen, showers, and toilets in all residential units and commercial buildings (WUW-1).
- Reduced square footage of residential turf due to the increased housing density (WUW-5).
- Water efficient irrigation systems and water efficient landscaping for the non-residential areas (WUW-3 and WUW-4).
- Preserved wetlands and creation of greenbelt, parks, and other vegetative areas totaling approximately 360 acres for the Original Project and 400 acres for Alternative 2; more than 25 percent of the project area (V-2).
- VMT reduction resulting from membership in a Transportation Management Association (TMA).

In addition to the above project mitigation measures, if Jackson is fully built out, the Sacramento Raceway land would become part of the project. In that case the Raceway would either re-locate

or would cease operations. In both cases there would be an additional GHG emissions decrease, but Kleinfelder did not include the magnitude of that decrease in the above percent reduction.

Finally, the mobile-source emission estimates are over-stated because they do not account for the very large electric vehicle penetration and other changes in transportation that will have to occur if California is to reach the 2050 GHG reduction goal.

## 6 PARTICULATE MATTER REDUCTIONS

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The mitigation measures that reduce NO<sub>x</sub>, ROG, and GHG emissions also greatly reduce particulate matter (PM) emissions because for the Jackson Township Specific Plan, NO<sub>x</sub>, ROG, GHG, and PM emissions are all associated with the same sources.

To evaluate PM emission reductions, Kleinfelder compared the total annual emissions for the Original Project and Alternative 2 as proposed to emissions that would occur with a typical development with the same detailed land uses but BAU for vehicle travel. To calculate the BAU emissions, Kleinfelder entered the detailed land uses into CalEEMod and the emissions model run with the CalEEMod default vehicle trip frequency and mileage that are typical of projects in Sacramento County. The BAU annual emissions reports are shown in Appendix G. Emissions calculated by CalEEMod for BAU were then compared to emissions from the project as proposed with mitigation.

The results are shown in Table 6-1 for fugitive and exhaust PM<sub>10</sub> and PM<sub>2.5</sub> for the Project-Related VMT scenarios and in Table 6-2 for the Cumulative VMT scenarios. PM<sub>10</sub> is particulate matter with a mean aerodynamic diameter of 10 microns or less and PM<sub>2.5</sub> is particulate matter with a mean aerodynamic diameter of 2.5 microns or less. Fugitive PM emissions are primarily due to re-suspension of road dust by vehicle traffic. Exhaust PM emissions are associated with combustion of fossil fuels in both mobile and non-mobile equipment.

**Table 6-1**  
**Comparison of BAU and Jackson PM Annual Emissions for Project-Related VMT**

<b>Alternative</b>	<b>Fugitive PM<sub>10</sub> (tpy)</b>	<b>Exhaust PM<sub>10</sub> (tpy)</b>	<b>Total PM<sub>10</sub> (tpy)</b>	<b>Fugitive PM<sub>2.5</sub> (tpy)</b>	<b>Exhaust PM<sub>2.5</sub> (tpy)</b>	<b>Total PM<sub>2.5</sub> (tpy)</b>
BAU Original Project Annual Emissions	88.7	1.5	90.2	23.8	1.4	25.2
Project-Related VMT Original Project Annual Emissions	47.1	1.3	48.4	12.6	1.3	13.9
<b>Percent Reduction</b>	<b>46.9%</b>	<b>13.3%</b>	<b>46.3%</b>	<b>47.1%</b>	<b>7.1%</b>	<b>44.8%</b>
BAU Alternative 2 Annual Emissions	83.0	1.3	84.2	22.2	1.2	23.5
Project-Related VMT Alternative 2 Annual Emissions	42.2	1.1	43.2	11.3	1.1	12.4
<b>Percent Reduction</b>	<b>49.2%</b>	<b>15.4%</b>	<b>48.73%</b>	<b>49.1%</b>	<b>8.3%</b>	<b>47.2%</b>

Note that the total may not exactly equal the sum of fugitive plus exhaust emissions due to round off differences.

**Table 6-2**  
**Comparison of BAU and Jackson PM Annual Emissions for Cumulative VMT**

<b>Alternative</b>	<b>Fugitive PM<sub>10</sub> (tpy)</b>	<b>Exhaust PM<sub>10</sub> (tpy)</b>	<b>Total PM<sub>10</sub> (tpy)</b>	<b>Fugitive PM<sub>2.5</sub> (tpy)</b>	<b>Exhaust PM<sub>2.5</sub> (tpy)</b>	<b>Total PM<sub>2.5</sub> (tpy)</b>
BAU Original Project Annual Emissions	88.7	1.5	90.2	23.8	1.4	25.2
Cumulative VMT Original Project Annual Emissions	38.1	1.3	39.4	10.2	1.2	11.4
<b>Percent Reduction</b>	<b>57.0%</b>	<b>13.3%</b>	<b>56.3%</b>	<b>57.1%</b>	<b>14.3%</b>	<b>54.8%</b>
BAU Alternative 2 Annual Emissions	83.0	1.3	84.2	22.2	1.2	23.5
Cumulative VMT Alternative 2 Annual Emissions	33.8	1.1	34.9	9.0	1.0	10.1
<b>Percent Reduction</b>	<b>59.3%</b>	<b>15.4%</b>	<b>58.6%</b>	<b>59.5%</b>	<b>16.7%</b>	<b>57.0%</b>

Note that the total may not exactly equal the sum of fugitive plus exhaust emissions due to round off differences.

There are no thresholds for PM reductions, but the mitigation built into the proposed project results in a reduction of PM emissions ranging from 45 to 59 percent from BAU. The reduction is due to reduced vehicle travel that results from the mitigation measures designed into the Original Project and Alternative 2. The VMT projected in the Traffic Study for the Original Project and Alternative 2 as proposed is about 47 to 59 percent less than the VMT calculated by CalEEMod for BAU. The reduction in vehicle travel and emissions of PM are the same measures that result in large reductions of NO<sub>x</sub>, ROG, and GHG emissions. These mitigation features are repeated here, and include, but are not limited to, the following. Where applicable, the related CAPCOA Greenhouse Gas Mitigation Measure is noted. However, the CAPCOA emission reduction percentages for the



noted measures were not used, the Traffic Study VMT was used to calculate emissions.

#### LOCATION

- Project is located in a suburban center within approximately 10 miles of the Sacramento downtown central business district and less than 5 miles from other existing high density commercial areas (LUT-2 and LUT-3).
- Project is located adjacent to other planned developments such that single-use trips are minimized, i.e., there are more pass-by and diverted trips (LUT-3 and LUT-4).

#### DENSITY/MIX

- Project provides a compact mix of land uses in close proximity to each other with a highly connected street and trail network (LUT-3).
- Project design is for high and medium density housing for over half of the total project dwelling units (LUT-1).
- Housing density is better than 9.5 dwelling units per acre (LUT-1).
- Project includes below market rate housing (LUT-6).
- Approximately 15 percent of the total commercial square footage is dedicated to a mixed-use facility that combines residences and commercial/retail uses (LUT-3).

#### INTERNAL PROXIMITY

- Most residential units are within 1,320 feet (one-quarter mile) of a neighborhood park, open space, school, and/or bicycle/pedestrian trail (LUT-3).
- Most residential units are less than one-half mile from shopping and services (LUT-4).
- Project design includes locating at least four schools within the project boundaries such that most students can walk to a local school (LUT-3 and LUT-4).
- Project design includes at least eight parks within the project boundaries such that residents can walk/bike to enjoy the parks (LUT-3 and LUT-4).

#### MULTI- MODAL EFFICIENCY

- Project design is based on a network of streets in a grid pattern (LUT-8).
- Project design includes access to high frequency bus service that connects to the

Watt/Manlove light rail station (LUT-5).

- Bus routes are signalized in order to avoid traffic delays (TST-4).
- Project design promotes a multi-modal system that makes public transit, walking, and bicycling viable and attractive travel choices for residents and employees. Features include:
  - Adequate bike parking at non-residential locations, including the transit center and park and ride locations (TST-5)
  - Showers/lockers and other end of trip facilities at non-residential buildings (TRT-5)
  - Long-term bike parking facilities (TST-5)
- Project includes an extensive pedestrian path and trail system that is convenient and accessible from homes, school, parks, employment and shopping (LUT-8).
- Pedestrian and bike paths minimize any barriers to pedestrian/bicycle use, e.g., fences, berms and other impediments are eliminated where possible (LUT-8 and TST-2).

#### TRANSIT SUPPORTIVE

- Project includes an on-site transit center and park and ride facilities along the designated transit route of Jackson Highway (LUT-5, TST-1, TST-2, TST-3, and RPT-4).
- Project subsidizes bus rapid transit lanes on Jackson Highway (TST-1, TST-4, and RPT-3).
- Project funding and design will result in bus headways of 15 minutes or better (TST-1, TST-4, RPT-2, and RPT-3).
- Project includes joining a Transportation Management Association (TMA) funded through assessments (RPT-3). Although the project will include a TMA, no VMT reduction from the TMA has been calculated or included in the Traffic Study.
- Project includes assessments for regional transportation improvements (RPT-3).

The project includes a number of additional features that also reduce potential emissions, but the benefit of those measures has not been incorporated into the emission estimates and calculated reductions. Among the additional measures are the following:

- Low flow bathroom, kitchen, showers, and toilets in all residential units and commercial buildings (WUW-1).
- Reduced square footage of residential turf due to the increased housing density

(WUW-5).

- Water efficient irrigation systems and water efficient landscaping for the non-residential areas (WUW-3 and WUW-4).
- Preserved wetlands and creation of greenbelt, parks, and other vegetative areas totaling approximately 360 acres for the Original Project and 400 acres for Alternative 2; more than 25 percent of the project area (V-2).
- VMT reduction resulting from membership in a Transportation Management Association (TMA).

In addition to the above project mitigation measures, if Jackson is fully built out, the Sacramento Raceway land would become part of the project. In that case the Raceway would either re-locate or would cease operations. In both cases there would be an additional very large reduction in PM emissions (especially fugitive PM emissions), but Kleinfelder did not include the magnitude of that decrease in the above percent reduction.

## 7 CONSTRUCTION EMISSIONS

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Although not part of an AQMP or GHGRP, the SMAQMD requests that construction emissions of ROG, NO<sub>x</sub>, and PM be estimated where possible. To estimate construction emissions CalEEMod was run for the Original Project and Alternative 2 with default parameters. The default parameters were then adjusted as needed to match project constraints. GHG emissions are not required to be calculated and there is no GHG Threshold for construction because the County has concluded that construction emissions would not contribute to a significant climate change impact. This is due to the fact that the construction equipment fleet activity tends to remain relatively constant over time and thus because of regulatory requirements (e.g., low carbon fuel standards), improvement in fuel efficiency, and improvement in equipment and construction practices, emissions will tend to decrease over time. Furthermore, emission reduction requirements for other pollutants during construction will also reduce GHG emissions.

For the CalEEMod emission model, construction was assumed to start on January 1, 2020 and be complete by December 31, 2034. When CalEEMod was run with default parameters, the model estimated total construction duration of 18,765 days. That is obviously an over-estimate. The planned construction duration is 3900 days (260 days per year times 15 years), or 23 percent of the default. Accordingly, the individual CalEEMod default construction phase durations were adjusted by a factor of 0.23 as shown in Table 7-1. Both the Original Project and Alternative 2 had the same default construction and adjusted duration.

**Table 7-1  
Default and Adjusted Construction Duration for Original Project and Alternative 2**

Construction Phase	Default Duration (days)	Adjusted Duration (days)	Rationale for Adjustment
Demolition	900	0	There is essentially no demolition required at the proposed location
Site Preparation	540	125	Applied factor of 0.23 to reflect the ratio of planned versus default total construction duration
Site Grading	1,395	322	
Building Construction	13,950	3,224	
Paving	990	229	
Architectural Coating	990	3,224	Assumed architectural coating could occur over approximately the same duration as building construction

The CalEEMod default construction worker and vendor trip frequencies were also adjusted to match the proposed project as shown in Tables 7-2 and 7-3. Because there are slightly different land uses for the Original Project and Alternative 2, there are slightly different trip frequencies as shown in the two tables. The trip lengths were not adjusted for either scenario.

**Table 7-2  
Default and Adjusted Worker and Vendor Construction Trips for Original Project**

Construction Phase	Default Trips per Day		Adjusted Trips per Day		Rationale for Adjustment
	Worker	Vendor	Worker	Vendor	
Demolition	15	0	0	0	There is essentially no demolition required at the proposed location
Site Preparation	18	0	18	0	No change
Site Grading	20	0	20	0	No change
Building Construction	6,812	2,207	4,531	1,003	Trip frequencies are a function of the number of dwelling units and square feet of building. Used CalEEMod trip frequency functions and planned dwelling units/square footage to calculate project-specific trip frequencies
Paving	15	0	15	0	No change
Architectural Coating	1,362	0	906	0	Used the CalEEMod assumption that architectural coating trips are 20% of Building Construction

**Table 7-3  
Default and Adjusted Worker and Vendor Construction Trips for Alternative 2**

Construction Phase	Default Trips per Day		Adjusted Trips per Day		Rationale for Adjustment
	Worker	Vendor	Worker	Vendor	
Demolition	15	0	0	0	There is essentially no demolition required at the proposed location
Site Preparation	18	0	18	0	No change
Site Grading	20	0	20	0	No change
Building Construction	6,636	2,167	4,193	1,018	Trip frequencies are a function of the number of dwelling units and square feet of building. Used CalEEMod trip frequency functions and planned dwelling units/square footage to calculate project-specific trip frequencies
Paving	15	0	15	0	No change
Architectural Coating	1,327	0	839	0	Used the CalEEMod assumption that architectural coating trips are 20% of Building Construction

Finally, the acreage of site preparation and grading were changed from the default to reflect the project-specific acreage of land that would be prepared and graded. It was assumed that all of the project area would be prepared and graded except for the parks, open space, and agricultural area: 913 acres for the Original Project and 907 acres for Alternative 2 (assuming that no grading is needed for parks, open spaces, and agricultural land). ). In the absence of a detailed construction plan, the remainder of the construction parameters in CalEEMod were left at their default settings.

Table 7-4 lists the CalEEMod default numbers of equipment and hours of usage for each construction phase. The data in Table 7-4 were provided to a design engineer/construction manager for reasonableness. He concluded that the default parameters were conservative over-estimates of the duration and/or numbers and usage of construction equipment. Specifically he concluded the following<sup>10</sup>:

- There is essentially no Demolition, consistent with Table 7-4.
- Multiple teams will likely be working on Site Preparation simultaneously, and thus on average the modeled 7 pieces of equipment operating a total of 8 hours per day, are sufficient to complete the site preparation in the modeled 0.5 years shown in Table 7-4.
- The modeled equipment list for Grading is typical and sufficient to complete grading in the modeled time period (1.2 years). More equipment could possibly be used to shorten the time period to less than 1.2 years; but given the limited amount of grading equipment in the Sacramento area, the modeled duration, equipment numbers and usage are reasonable.
- The default equipment usage rates for Building Construction equipment are an over-estimate. For example, a crane would not normally be used continuously for 7 hours per day; it would be used to load materials for a short period and then left idle for the rest of the day. Thus the emissions for Building Construction are likely over-stated.
- The amount of Paving equipment and duration shown in Table 7-4 is a large over-estimate.

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<sup>10</sup> *Personal Communication, Mr. Steve AuClair, PE, April 13, 2019.*

- Architectural Coating is an on-going activity during Building Construction as there are coating applications other than the finish coats on building surfaces; and thus assuming a duration equivalent to the Building Construction duration is reasonable.

**Table 7-4  
CalEEMod Default Construction Equipment and Hours of Usage**

Construction Phase	Equipment List	Number of Pieces of Equipment	Usage Hours Per Day	Total Construction Days (Years) (from Table 7-1 and 260 days/yr)
<b>Demolition</b>	There is essentially no demolition needed			
<b>Site Preparation</b>				
	Rubber Tired Dozers	3	8	125 (0.5 yrs)
	Tractors/Loaders/Backhoes	4	8	125 (0.5 yrs)
<b>Grading</b>				
	Excavators	2	8	322 (1.2 yrs)
	Graders	1	8	322 (1.2 yrs)
	Rubber Tired Dozers	1	8	322 (1.2 yrs)
	Scrapers	2	8	322 (1.2 yrs)
	Tractors/Loaders/Backhoes	2	8	322 (1.2 yrs)
<b>Building Construction</b>				
	Cranes	1	7	3,224 (12.4 yrs)
	Forklifts	3	8	3,224 (12.4 yrs)
	Generator Sets	1	8	3,224 (12.4 yrs)
	Tractors/Loaders/Backhoes	3	7	3,224 (12.4 yrs)
	Welders	1	8	3,224 (12.4 yrs)
<b>Paving</b>				
	Pavers	2	8	229 (0.9 yrs)
	Paving Equipment	2	8	229 (0.9 yrs)
	Rollers	2	8	229 (0.9 yrs)
<b>Architectural Coating</b>				
	Compressors	1	6	3,224 (12.4 yrs)

The construction emissions were compared to the current (as of January 2019) SMAQMD significance thresholds<sup>11</sup> as shown in Table 7-5. The values in Table 7-5 come from the CalEEMod reports in Appendix J and the season or year of the maxima are also shown. The maximum annual and maximum daily emissions during the construction period are shown. All of the emissions are less than thresholds except for daily NO<sub>x</sub>.

<sup>11</sup> <http://www.airquality.org/LandUseTransportation/Documents/CH2ThresholdsTable5-2015.pdf>

**Table 7-5  
Maximum Construction Emissions**

<b>Alternative</b>	<b>ROG (lb/day)</b>	<b>NO<sub>x</sub> (lb/day)</b>	<b>Total PM<sub>10</sub> (lb/day)</b>	<b>Total PM<sub>10</sub> (tpy)</b>	<b>Total PM<sub>2.5</sub> (lb/day)</b>	<b>Total PM<sub>2.5</sub> (tpy)</b>
Original Project Emissions	68.5 (Summer)	126.6 (Winter)	48.8 (Winter)	6.1 (2024)	14.0 (Winter)	1.7 (2023)
SMAQMD Significance Thresholds	None	85	80	14.6	82	15
<b>Exceed Threshold?</b>	<b>N/A</b>	<b>Yes</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
Alternative 2 Emissions	64.2 (Summer)	127.1 (Winter)	45.3 (Winter)	5.8 (2024)	13.2 (Winter)	1.6 (2023)
SMAQMD Significance Thresholds	None	85	80	14.6	82	15
<b>Exceed Threshold?</b>	<b>N/A</b>	<b>Yes</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>



**APPENDIX A**  
**LAND USE SUMMARY AND DETAIL FOR ORIGINAL PROJECT AND ALTERNATIVE 2**

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**Appendix A: Land Use Summary and Detail for Original Project and Alternative 2**

**CEQA Original Project Land Use Summary**

<i>Index</i>	<i>Residential Designations</i>	<i>Acres</i>	<i>Ave. Density</i>	<i>D.U.'s</i>
1	LD- Low Density Residential	355.7	6.0	2134
2	MD-Medium Density Residential	136.3	13.0	1772
3	HD- High Density Residential	85.0	25.0	2137
	<b>Subtotal</b>	<b>577.5</b>		<b>6,043</b>
	<b>Commercial + Office Zones</b>		<b>Approx. Bldg. Square Footage</b>	
4	GC-General Commercial	59.3	645,700	
5	CC-Community Commercial	17.6	191,600	
6	MU-Mixed Use	19.6	427,000	100
7	O- Office	33.6	731,800	
	<b>Subtotal</b>	<b>130.1</b>	<b>1,996,100</b>	<b>100</b>
	<b>Public/Quasi Public Zones</b>			
8	PQP-Tank Site	1.0		
9	PQP-High School/Middle School	70.0		
10	PQP-Elementary School	30.0		
	<b>Subtotal</b>	<b>101.0</b>		
	<b>Park + Open Space Zones</b>			
11	CP- Community Park	39.2		
12	P- Neighborhood Park	39.1		
13	OS- Wetland Preserve	214.3		
14	OS- Greenbelt/Drainage Corridor	57.7		
15	OS- Landscape Corridor	14.5		
16	OS- Detention Basin	3.2		
	<b>Subtotal</b>	<b>368.0</b>		
17	AG-Agriculture	109.8		
18	RW- Primary Roadways	104.6		
	<b>TOTAL</b>	<b>1,391.0</b>		<b>6,143</b>

## CEQA Original Project:

### CEQA ENTRIES PER LAND USE ITEM NUMBER

1. Entered as Single Family Housing: 2,134 DUs, 355.7 ac.

2. Entered as Single Family Housing: 1,772 DUs, 136.3 ac.

3. Entered as Apartments Mid-rise: 2,137 DUs, 85.0 ac.

4. General Commercial entered as a combination of CalEEMod categories as follows:

30% of building SF is a Discount Club, or 193,700 sf. 30% of land associated with Discount Club, or 17.8 acres (30% of 59.3). 0.25 FAR is building. Assumed 0.15 FAR for landscaping. So acreage for building and landscaping is  $0.4 \times 17.8 = 7.12$  ac. Balance is parking lot, or  $0.6 \times 17.8$  ac = 10.68 ac or 465,200 sf.

25% of building SF is a Home Improvement Store, or 161,400 sf. 25% of land associated with Home Improvement Store, or 14.8 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 14.8 = 5.92$  ac. Balance is parking lot, or  $0.6 \times 14.8$  ac = 8.88 ac or 386,800 sf.

10% of building SF is a Grocery Store, or 64,600 sf. 10% of land associated with Grocery Store, or 5.9 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 5.9 = 2.36$  ac. Balance is parking lot, or  $0.6 \times 5.9$  ac = 3.54 ac or 154,200 sf.

5% of building SF is a Pharmacy, or 32,300 sf. 5% of land associated with Pharmacy, or 3.0 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 3.0 = 1.20$  ac. Balance is parking lot, or  $0.6 \times 3.0$  ac = 1.80 ac or 78,400 sf.

5% of building SF is a Hardware Store, or 32,300 sf. 5% of land associated with Hardware Store, or 3.0 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 3.0 = 1.20$  ac. Balance is parking lot, or  $0.6 \times 3.0$  ac = 1.80 ac or 78,400 sf.

6% of building SF is Restaurants, including drive through restaurants, or 38,700 sf. 6% of land associated with Restaurants, or 3.6 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 3.6 = 1.44$  ac. Balance is parking lot, or  $0.6 \times 3.6$  ac = 2.16 ac or 94,100 sf.

17.5% of building SF is Miscellaneous Retail (entered as a Strip Mall), or 113,000 sf. 17.5% of land associated with Miscellaneous Retail, or 10.4 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 10.4 = 4.16$  ac. Balance is parking lot, or  $0.6 \times 10.4$  ac = 6.24 ac or 271,800 sf.

0.5% of building SF is a Convenience Store, or 3,200 sf. 0.5% of land associated with Convenience Store, or 0.3 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 0.3 = 0.12$  ac. Balance is parking lot, or  $0.6 \times 0.3$  ac = 0.18 ac or 7,800 sf.

1% of building SF is Gasoline Stations (2 total), or 6,500 sf. Stations have 24 pumps each based on CalEEMod User Guide Appendix D that uses 7.1 pumps per 1,000 sf. 1% of land associated with Gasoline Stations, or 0.6 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 0.6 = 0.24$  ac. Balance is parking, or  $0.6 \times 0.6$  ac = 0.36 ac or 15,700 sf.

Total building SF is 645,700. Total parking SF is 1,552,400.

5. Community Commercial entered as a Strip Mall plus a gas station.

Gas station is a 3,000 sf building, which is 1.6% of 191,600 sf total CC buildings. Station has 24 pumps. Assumed 1.6% of total acreage is dedicated to gas station, or 0.3 acres. Assumed 0.15 FAR is landscaping, so 0.05 acres is landscaping. 0.07 acres will be building ( $3,000 / 43560 = 0.07$ ). 0.18 acres ( $0.3 - 0.05 - 0.07 = 0.18$ ), or 7,800 sf will be parking.

Remaining 188,600 sf is a strip mall. Of the 17.6 acres, 0.3 acres is gas station, 17.3 acres is strip mall. Assumed 0.15 FAR for landscaping. So acreage for building and landscaping is  $0.25 \times 17.3 + 0.15 \times 17.3 = 6.92$  ac. Balance is parking lot, or  $0.6 \times 17.3$  ac = 10.38 ac or 452,000 sf.

6. Mixed Use total lot is 19.6 acres. Of the total 19.6 acres, 4.1 acres (178,600 sf and 100 DU) is for housing, assumed mid-rise apartment. Total housing and retail is 427,000 sf, so retail is  $427,000 - 178,600$  sf = 248,400 sf. Retail entered as a Strip Mall (Community Shopping Center). Of the 19.6 acres, 0.1 FAR is landscaping ( $0.1 \times 19.6 \times 43,560 = 85,400$  sf). Therefore, for the CalEEMod lot size for the housing and retail, use 427,000 sf plus 85,400 sf = 11.76 acres. The balance of the 19.6 acres ( $19.6 - 11.76 = 7.84$  acres = 341,500 sf) is parking lot for both housing and retail combined.

7. 19.9 acres is the west parcel that was assumed to be a hospital. 0.5 FAR for the building ( $0.5 \times 19.9 \times 43,560 = 433,400$  sf). 0.4 FAR of west parcel is parking structure footprint plus surface parking. Assume 0.2 FAR is parking structure footprint and 0.2 FAR is surface parking ( $0.2 \times 19.9 \times 43,560 = 173,400$  sf parking structure footprint, and 173,400 surface parking). Balance of 19.9 acres is landscaping. Lot size for hospital and landscaping is  $0.6$  FAR  $\times$  19.9 ac = 11.94 ac.

13.7 acre east parcel is conventional office space (General Office Building). 0.5 FAR is building ( $0.5 \times 13.7 \times 43,560 = 298,400$  sf). 0.4 FAR is surface parking, 238,700 sf. Balance of 13.7 acres is landscaping. Lot size for office is  $0.6$  FAR  $\times$  13.7 ac = 8.22 ac.

8. 1 acre is allowed for a possible water storage tank. Assumed one tank, approximately 1,000,000 gallons: 24 feet high, 90 feet diameter.
9. Entered as High School. From School District: High school building is 250,000 sf. Parking lot is 14 acres ( $14 \times 43,560 = 609,800$  sf). Enter parking lot acreage as 14 ac. Balance ( $70 - 14 = 56.0$  ac) entered as lot size with school building.

10. From School District: Each elementary school building is 75,000 sf ( $3 \times 75,000 = 225,000$  sf building). Parking lot is 45,600 sf ( $3 \times 45,600 = 136,800$  sf). Enter parking lot acreage as  $136,800/43,560 = 3.14$  ac. Balance ( $30.0 - 3.14 = 26.86$  ac) entered as lot size with school building.

11. Entered as a City Park: 39.2 ac.

12. Entered as a City Park: 39.1 ac.

## CEQA Alternative 2 Land Use Summary

<b>Index</b>	<b>Residential Designations</b>	<b>Acres</b>	<b>Ave. Density</b>	<b>Dwelling Units</b>
1	LD- Low Density Residential	382.6	6.0	2,295
2	MD-Medium Density Residential	124.5	10.0	1,245
3	HD- High Density Residential	82.0	25.0	2,050
	<b>Subtotal</b>	<b>589.1</b>		<b>5,590</b>
	<b>Commercial + Office Zones</b>		<b>Approx. Bldg. Square Footage</b>	
4	General Commercial	59.7	650,100	
5	Community Commercial	16.2	176,400	
6	Mixed Use	19.7	429,000	100
7	Office	35.2	766,600	
	<b>Subtotal</b>	<b>130.8</b>	<b>2,022,100</b>	<b>100</b>
	<b>Public/Quasi Public Zones</b>			
8	Tank Site	1.0		
9	High School/Middle School	70.0		
10	Elementary School	30.0		
	<b>Subtotal</b>	<b>101.0</b>		
	<b>Park + Open Space Zones</b>			
11	Community Park	40.6		
12	Neighborhood Park	38.2		
13	Wetland Preserve	259.8		
14	Greenbelt/Drainage Corridor	55.6		
15	Landscape Corridor	14.5		
	<b>Subtotal</b>	<b>408.7</b>		
16	Agriculture	74.7		
17	Primary Roadways	86.7		
	<b>TOTAL</b>	<b>1,391.0</b>		<b>5,690</b>

## CEQA Alternative 2:

### CalEEMod ENTRIES PER LAND USE ITEM NUMBER

1. Entered as Single Family Housing: 2,295 DUs, 382.6 ac.
2. Entered as Single Family Housing: 1,245 DUs, 124.5 ac.
3. Entered as Apartments Mid Rise: 2,050 DUs, 82.0 ac.

4. General Commercial entered as a combination of CalEEMod categories as follows:

30% of building SF is a Discount Club, or 195,000 sf. 30% of land associated with Discount Club, or 17.91 acres (30% of 59.7). 0.25 FAR is building. Assumed 0.15 FAR for landscaping. So acreage for building and landscaping is  $0.4 \times 17.91 = 7.16$  ac. Balance is parking lot, or  $0.6 \times 17.91$  ac = 10.75 ac or 465,300 sf.

25% of building SF is a Home Improvement Store, or 162,500 sf. 25% of land associated with Home Improvement Store, or 14.93 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 14.93 = 5.97$  ac. Balance is parking lot, or  $0.6 \times 14.93$  ac = 8.96 ac or 390,300 sf.

10% of building SF is a Grocery Store, or 65,000 sf. 10% of land associated with Grocery Store, or 6.0 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 6.0 = 2.40$  ac. Balance is parking lot, or  $0.6 \times 6.0$  ac = 3.60 ac or 156,800 sf.

5% of building SF is a Pharmacy, or 32,500 sf. 5% of land associated with Pharmacy, or 2.99 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 2.99 = 1.20$  ac. Balance is parking lot, or  $0.6 \times 2.99$  ac = 1.79 ac or 78,000 sf.

5% of building SF is a Hardware Store, or 32,500 sf. 5% of land associated with Hardware Store, or 2.99 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 3.0 = 1.20$  ac. Balance is parking lot, or  $0.6 \times 2.99$  ac = 1.79 ac or 78,000 sf.

6% of building SF is Restaurants, including drive through restaurants, or 39,000 sf. 6% of land associated with Restaurants, or 3.58 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 3.58 = 1.43$  ac. Balance is parking lot, or  $0.6 \times 3.58$  ac = 2.15 ac or 93,700 sf.

17.5% of building SF is Miscellaneous Retail (entered as a Strip Mall), or 113,800 sf. 17.5% of land associated with Miscellaneous Retail, or 10.45 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 10.45 = 4.18$  ac. Balance is parking lot, or  $0.6 \times 10.45$  ac = 6.27 ac or 273,100 sf.

0.5% of building SF is a Convenience Store, or 3,300 sf. 0.5% of land associated with Convenience Store, or 0.30 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 0.30 = 0.12$  ac. Balance is parking lot, or  $0.6 \times 0.30$  ac = 0.18

ac or 7,800 sf.

1% of building SF is Gasoline Stations, or 6,500 sf. 1% of land associated with Gasoline Stations, or 0.60 acres. 0.25 FAR is building and 0.15 FAR is landscaping. So acreage for building and landscaping is  $0.4 \times 0.60 = 0.24$  ac. Balance is parking, or  $0.6 \times 0.60$  ac = 0.36 ac or 15,700 sf.

Total building SF is 650,100. Total parking SF is 1,558,700.

5. Community Commercial entered as a Strip Mall plus a gas station.

Gas station is a 3,000 sf building, which is 1.7% of 176,400 sf total CC buildings. Assumed 1.7% of total acreage is dedicated to gas station, or 0.28 acres. Assumed 0.15 FAR is landscaping, so 0.04 acres is landscaping. 0.07 acres will be building ( $3,000 / 43560 = 0.07$ ). 0.17 acres ( $0.28 - 0.04 - 0.07 = 0.17$ ) or 7,400 sf will be parking.

Remaining 173,400 sf is a strip mall. Of the 16.2 acres, 0.28 acres is gas station, 15.92 acres is strip mall. Assumed 0.15 FAR for landscaping. So acreage for building and landscaping is  $0.25 \times 15.92 + 0.15 \times 15.92 = 6.37$  ac. Balance is parking lot, or  $0.6 \times 15.92$  ac = 9.55 ac or 416,000 sf.

6. Mixed Use total lot is 19.7 acres. Of the total 19.7 acres, 4.1 acres (178,600 sf and 100 DU) is for housing, assumed mid-rise apartment. Total housing and retail is 429,000 sf, so retail is  $429,100 - 178,600$  sf = 250,400 sf. Retail entered as a Strip Mall (Community Shopping Center). Of the 19.7 acres, 0.1 FAR is landscaping ( $0.1 \times 19.7 \times 43,560 = 85,800$  sf). Therefore, for the CalEEMod lot size for the housing, use 429,100 sf plus 85,800 sf = 11.82 acres. The balance of the 19.7 acres ( $19.7 - 11.82 = 7.88$  acres = 343,200 sf) is parking lot for both housing and retail combined.
7. 35.2 acres assumed conventional office space (General Office Building). 0.5 FAR is building ( $0.5 \times 35.2 \times 43,560 = 766,600$  sf). 0.4 FAR is surface parking, 613,300 sf. Balance of 33.6 acres is landscaping.
8. 1 acre is allowed for a possible water storage tank. Assumed one tank, approximately 1,000,000 gallons: 24 feet high, 90 feet diameter.
9. Entered as High School. From School District: High school building is 250,000 sf. Parking lot is 14 acres ( $14 \times 43,560 = 609,800$  sf). Enter parking lot acreage as 14 ac. Balance ( $70 - 14 = 56.0$  ac) entered as lot size with school building.
10. Total of 3 elementary schools. From school district, each elementary school building is 75,000 sf ( $3 \times 75,000 = 225,000$  sf building). Parking lot is 45,600 sf ( $3 \times 45,600 = 136,800$  sf). Enter parking lot acreage as  $136,800/43,560 = 3.14$  ac. Balance ( $30.0 - 3.14 = 26.86$  ac) entered as lot size with school building.
11. Entered as a City Park: 40.6 ac.
12. Entered as a City Park: 38.2 ac.



**APPENDIX B**  
**ORIGINAL PROJECT COMPARISON OF PLANNED TO STANDARD PARKING LOT AREA**

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CEQA Original Project Comparison of Planned Parking Lot Area to ITE Standard Parking Lot Area

Land Use Index	Land Use	Proposed Project Planned Parking Lot Area	ITE Parking Lot Unit of Measure	ITE Land Use Code	ITE Page Number	ITE Land Use Description	Building Square Footage or Other Metric		Calculated Number of Parking Spaces		Assumed Square Feet Pkg Lot per Space per ITE, 325 to 400.	Calculated Parking Lot Area per ITE
4	General Commercial -- Discount Club	465,200	5.2 spaces per 1,000 square feet per ITE.	857	257	Discount Club	193,700	square feet	1007.24	spaces	370	372,679
	General Commercial -- Home Improvement Store	386,800	5.0 spaces per 1,000 square feet per ITE.	862	267	Home Improvement Superstore	161,400	square feet	807.00	spaces	370	298,590
	General Commercial -- Grocery Store	154,200	5.8 spaces per 1,000 square feet per ITE.	850	244	Supermarket	64,600	square feet	374.68	spaces	370	138,632
	General Commercial -- Pharmacy	78,400	5.4 spaces per 1,000 square feet per ITE.	880	281	Pharmacy with Drive Thru	32,300	square feet	174.42	spaces	370	64,535
	General Commercial -- Hardware Store	78,400	6.7 spaces per 1,000 square feet per ITE.	816	225	Hardware/ Paint Store	32,300	square feet	216.41	spaces	370	80,072
	General Commercial -- Restaurants	94,100	15.2 spaces per 1,000 square feet per ITE.	934	333	Restaurant with Drive Thru	38,700	square feet	588.24	spaces	370	217,649
	General Commercial -- Strip Mall	271,800	4.9 spaces per 1,000 square feet per ITE for Community Shopping Center (100,000 to 400,000 sf) on Page 227.	820	226	Shopping Center	113,000	square feet	553.70	spaces	370	204,869
	General Commercial -- Convenience Store	7,800	5.7 spaces per 1,000 square feet per ITE.	851	250	Convenience Market	3,200	square feet	18.24	spaces	370	6,749
	General Commercial -- Gasoline Stations	15,700	1.2 spades per fueling station per ITE.	701	348	Gasoline Station w Convenience Market	48	fueling station	57.60	fueling stations	370	21,312
5	Community Commercial -- Gasoline Station	7,800	1.2 spades per fueling station per ITE.	701	348	Gasoline Station w Convenience Market	24	fueling station	28.80	fueling stations	370	10,656
	Community Commercial -- Strip Mall	452,000	4.9 spaces per 1,000 square feet per ITE for Community Mall (100,000 to 400,000 sf) on Page 227.	820	226	Shopping Center	188,600	square feet	924.14	spaces	370	341,932
6	Mixed Use -- Retail	341,500	4.9 spaces per 1,000 square feet per ITE for Community Shopping Center (100,000 to 400,000 sf) on Page 227.	820	226	Shopping Center	248,400	square feet	1217.16	spaces	370	450,349
	Mixed Use -- Housing		1.4 spaces per dwelling unit per ITE.	221	50	Low/Mid-Rise Apartment	100	dwelling unit	140.00	spaces	370	51,800
7	Office -- West Parcel 19.9 ac -- Hospital -- Surface Parking	173,400	3.0 spaces per 1,000 square feet per ITE for Suburban Hospital.	610	178	Hospital	433,400	square feet	1300.20	spaces	370	481,074
	Office -- East Parcel 13.7 ac -- Office -- Surface Parking	238,700	4.0 spaces per 1,000 square feet per ITE.	701	201	Office Building	298,300	square feet	1193.20	spaces	370	441,484
9	High School	609,800	0.5 spaces per student per ITE. 160 Gross Floor Area per student per ITE.	530	144	High School	250,000	square feet	781.25	spaces	370	289,063
10	Elem Schools (Total of 3 schools)	136,800	0.2 vehicles per student per ITE. Assumed 80 Gross Floor Area per student, 50% of the ITE High School ratio.	520	139	Elementary School	225,000	square feet	562.50	spaces	370	208,125
<b>TOTAL PARKING LOT AREA</b>		<b>3,512,400</b>										<b>3,679,569</b>

**APPENDIX C**  
**ORIGINAL PROJECT AND ALTERNATIVE 2 VEHICLE MILEAGE**

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**Jackson Township Project VMT by Speed Bin**

**Freeways & Rural -- Peak Daily VMT**

Speed Bin	Existing	Existing Plus Jackson Township (Original Project)	Existing Plus Jackson Township (Alt. 2)	CEQA Cumulative Plus THREE PROJECTS (No Jackson Township)	CEQA Cumulative Plus FOUR PROJECTS (Alt. 2)	CEQA Cumulative Plus FOUR PROJECTS (Original Project)
0.00-7.50	10,038	12,044	11,648	21,878	22,147	21,990
7.51-12.50	52,327	51,019	50,772	52,323	53,589	55,186
12.51-17.50	167,444	168,185	169,477	213,503	212,937	213,163
17.51-22.50	568,432	571,587	564,138	681,073	682,861	682,606
22.51-27.50	261,687	255,640	260,526	266,951	260,531	257,310
27.51-32.50	470,849	472,565	493,898	603,699	590,721	605,773
32.51-37.50	1,521,364	1,541,212	1,538,735	1,834,700	1,952,166	1,938,576
37.51-42.50	2,110,664	2,137,862	2,052,241	2,824,993	2,768,043	2,790,486
42.51-47.60	3,961,476	3,982,592	4,058,036	5,803,009	5,777,176	5,743,429
47.61-52.50	4,861,506	4,849,659	4,841,627	6,965,796	6,845,622	6,984,990
52.51-57.50	10,868,220	10,913,809	10,902,467	14,821,406	14,943,757	14,811,177
57.51-62.50	7,205,970	7,198,580	7,178,183	5,567,341	5,556,199	5,579,151
62.51-67.50	574,405	574,109	574,573	931,713	931,303	923,390
67.51-72.50	1,116,557	1,116,521	1,114,746	1,114,203	1,113,571	1,114,576
<b>Total</b>	<b>33,750,937</b>	<b>33,845,384</b>	<b>33,811,066</b>	<b>41,702,588</b>	<b>41,710,625</b>	<b>41,721,804</b>

**Freeways & Rural**

Jackson Township Project-Related VMT (Original Project)	Jackson Township Project-Related VMT (Alternative 2)	Jackson Township Cumulative VMT (Original Project)	Jackson Township Cumulative VMT (Alternative 2)
2,005	1,610	112	269
-1,308	-1,555	2,862	1,266
741	2,033	-341	-566
3,155	-4,294	1,534	1,788
-6,048	-1,162	-9,641	-6,420
1,717	23,049	2,074	-12,979
19,848	17,371	103,876	117,466
27,198	-58,424	-34,506	-56,950
21,117	96,560	-59,580	-25,833
-11,847	-19,879	19,194	-120,174
45,589	34,247	-10,228	122,351
-7,391	-27,787	11,811	-11,141
-295	169	-8,323	-409
-36	-1,811	372	-632
<b>94,445</b>	<b>60,128</b>	<b>19,216</b>	<b>8,035</b>

**Freeways & Rural & Urban -- Peak Daily VMT**

Jackson Township Project-Related VMT (Original Project)	Jackson Township Project-Related VMT (Alternative 2)	Jackson Township Cumulative VMT (Original Project)	Jackson Township Cumulative VMT (Alternative 2)
-475	1,488	-1,189	-281
7,265	6,836	10,132	2,902
12,051	10,568	14,257	16,419
46,307	45,442	33,952	48,210
28,744	47,859	49,710	56,105
94,306	118,134	54,159	6,091
101,645	80,914	269,191	253,912
63,590	-28,098	-68,514	-45,215
14,842	85,176	-42,094	-34,726
-10,093	-19,511	10,740	-130,589
44,718	34,567	-14,177	123,305
-7,233	-27,928	11,376	-11,613
-294	192	-8,236	-369
-36	-1,811	372	-632
<b>395,339</b>	<b>353,828</b>	<b>319,682</b>	<b>283,518</b>

**Urban Streets -- Peak Daily VMT**

Speed Bin	Existing	Existing Plus Jackson Township (Original Project)	Existing Plus Jackson Township (Alt. 2)	CEQA Cumulative Plus THREE PROJECTS (No Jackson Township)	CEQA Cumulative Plus FOUR PROJECTS (Alt. 2)	CEQA Cumulative Plus FOUR PROJECTS (Original Project)
0.00-7.50	71,455	68,975	71,333	92,285	91,735	90,984
7.51-12.50	130,957	139,529	139,347	250,009	251,645	257,279
12.51-17.50	429,173	440,483	437,708	806,426	823,412	821,024
17.51-22.50	5,345,473	5,388,625	5,395,209	7,966,749	8,013,171	7,999,167
22.51-27.50	2,308,931	2,343,723	2,357,952	3,883,868	3,946,393	3,943,219
27.51-32.50	3,343,319	3,435,908	3,438,404	6,095,079	6,114,149	6,147,164
32.51-37.50	5,567,940	5,649,737	5,631,483	9,644,462	9,780,907	9,809,777
37.51-42.50	4,680,913	4,717,306	4,711,239	7,140,936	7,152,671	7,106,929
42.51-47.60	1,357,251	1,350,977	1,345,867	2,270,232	2,261,340	2,287,719
47.61-52.50	559,498	561,252	559,866	1,290,207	1,279,792	1,281,754
52.51-57.50	163,980	163,109	164,300	629,401	630,355	625,452
57.51-62.50	3,858	4,016	3,717	7,090	6,618	6,655
62.51-67.50	789	790	812	1,725	1,766	1,811
67.51-72.50	0	0	0	0	0	0
<b>Total</b>	<b>23,963,537</b>	<b>24,264,430</b>	<b>24,257,236</b>	<b>40,078,470</b>	<b>40,353,952</b>	<b>40,378,936</b>

**Urban Streets -- Peak Daily VMT**

Jackson Township Project-Related VMT (Original Project)	Jackson Township Project-Related VMT (Alternative 2)	Jackson Township Cumulative VMT (Original Project)	Jackson Township Cumulative VMT (Alternative 2)
-2,480	-122	-1,300	-550
8,573	8,391	7,270	1,636
11,310	8,535	14,598	16,985
43,152	49,736	32,418	46,421
34,792	49,020	59,351	62,525
92,590	95,085	52,086	19,070
81,797	63,543	165,315	136,445
36,392	30,326	-34,008	11,735
-6,275	-11,385	17,486	-8,892
1,754	368	-8,453	-10,415
-871	320	-3,949	953
158	-141	-434	-472
1	23	87	41
0	0	0	0
<b>300,894</b>	<b>293,700</b>	<b>300,466</b>	<b>275,483</b>

**Freeways & Rural & Urban -- Annual VMT**

Jackson Township Project-Related VMT (Original Project)	Jackson Township Project-Related VMT (Alternative 2)	Jackson Township Cumulative VMT (Original Project)	Jackson Township Cumulative VMT (Alternative 2)
-151,933	476,080	-380,371	-89,885
2,324,666	2,187,373	3,242,301	928,499
3,856,419	3,381,798	4,562,394	5,254,163
14,818,384	14,541,482	10,864,506	15,427,162
9,198,173	15,314,774	15,907,229	17,953,696
30,178,038	37,802,995	17,330,960	1,949,126
32,526,304	25,892,595	86,141,162	81,251,722
20,348,864	-8,991,360	-21,924,368	-14,468,918
4,749,504	27,256,192	-13,469,926	-11,112,189
-3,229,677	-6,243,510	3,436,915	-41,788,573
14,309,917	11,061,590	-4,536,704	39,457,494
-2,314,502	-8,937,069	3,640,451	-3,716,096
-94,141	61,402	-2,635,565	-117,946
-11,648	-579,392	119,162	-202,358
<b>126,508,368</b>	<b>113,224,950</b>	<b>102,298,144</b>	<b>90,725,898</b>

Totals do not exactly match due to round-off differences.

<b>Total Daily VMT</b>	57,714,474	58,109,814	58,068,302	81,781,058	82,064,577	82,100,739
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<b>Incremental Jackson Daily VMT:</b>	395,340	353,828		283,520	319,682	
<b>Incremental Jackson Annual VMT = Daily VMT x 320:</b>	<b>126,508,800</b>	<b>113,225,078</b>		<b>90,726,317</b>	<b>102,298,134</b>	

<b>Incremental Jackson Daily VMT:</b>	395,339	353,828	319,682	283,518
Totals do not exactly match due to round-off differences.				

**APPENDIX D**  
**EMFAC2017 EMISSIONS CALCULATIONS**

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**APPENDIX D-1**  
**EMFAC2017 EMISSION FACTORS**

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SACRAMENT	2035 LDT1	Aggregated	70 GAS	9445.01898	0.00362935	0.02436539	246.3286244	0.00104794	0.00079978	0.00073537	0.00341108
SACRAMENT	2035 LDT1	Aggregated	70 DSL	2.4393315	0.0448089	0.67921513	462.7773742	0.00208129	0.02732675	0.02614461	0.07274216
SACRAMENT	2035 LDT2	Aggregated	70 GAS	30525.6494	0.0039107	0.02421835	247.0160849	0.00116835	0.00075738	0.00069639	0.00329128
SACRAMENT	2035 LDT2	Aggregated	70 DSL	303.226282	0.00681918	0.02081487	248.2319827	0.00031674	0.0033071	0.00316403	0.03901861
SACRAMENT	2035 MCY	Aggregated	70 GAS	825.799171	2.32739197	1.23484944	229.4445225	0.34639725	0.00229314	0.00213869	0.07111289
SACRAMENT	2035 MDV	Aggregated	70 GAS	18646.609	0.00486919	0.02995985	302.2502298	0.00136507	0.00077796	0.0007153	0.00362649
SACRAMENT	2035 MDV	Aggregated	70 DSL	651.538237	0.0028904	0.01042958	327.4238179	0.00013425	0.0011701	0.00111948	0.05146646
SACRAMENT	2035 Motor Coach	Aggregated	70 DSL	96.6887762	0.02167119	1.57588351	1228.195402	0.00100657	0.03003914	0.02873966	0.19305521
SACRAMENT	2035 SBUS	Aggregated	70 DSL	160.597601	0.02706137	2.49274698	906.1640623	0.00125693	0.02977181	0.02848389	0.14243637
SACRAMENT	2035 T6 Ag	Aggregated	70 DSL	0.04642282	0.01185267	2.65862406	1090.818978	0.00055053	0.03131201	0.02995746	0.17146155
SACRAMENT	2035 T6 CAIRP hea	Aggregated	70 DSL	148.045836	0.00916473	0.75919692	684.2035867	0.00042568	0.01242197	0.0118846	0.10754728
SACRAMENT	2035 T6 CAIRP sm	Aggregated	70 DSL	21.96787	0.00931788	0.78224188	757.891773	0.00043279	0.01295375	0.01239338	0.11913003
SACRAMENT	2035 T6 instate co	Aggregated	70 DSL	435.562466	0.01122569	1.24826136	870.1416635	0.0005214	0.01979476	0.01893845	0.13677415
SACRAMENT	2035 T6 instate co	Aggregated	70 DSL	3195.43112	0.00989949	0.90501014	790.483756	0.00045981	0.01516542	0.01450937	0.12425304
SACRAMENT	2035 T6 instate he	Aggregated	70 DSL	1009.29698	0.010244	1.01954264	762.7887574	0.00047581	0.01677565	0.01604995	0.11989977
SACRAMENT	2035 T6 instate srr	Aggregated	70 DSL	1285.2093	0.00990697	0.90553956	791.8455398	0.00046015	0.01520546	0.01454768	0.12446709
SACRAMENT	2035 T6 OOS heav	Aggregated	70 DSL	82.2913711	0.00915552	0.75729827	683.5040388	0.00042525	0.01238676	0.01185092	0.10743732
SACRAMENT	2035 T6 OOS small	Aggregated	70 DSL	11.5808352	0.00933338	0.78676584	758.986046	0.00043351	0.01302147	0.01245817	0.11930204
SACRAMENT	2035 T6 Public	Aggregated	70 DSL	1418.92377	0.01200363	1.29950606	823.5812077	0.00055754	0.01201558	0.01149579	0.1294555
SACRAMENT	2035 T6 utility	Aggregated	70 DSL	0.00049193	0.00791712	0.56771375	763.5301761	0.00036773	0.00806208	0.00771332	0.12001631
SACRAMENT	2035 T7 Ag	Aggregated	70 DSL	0.04176905	0.02528638	4.61960936	1685.964419	0.00117449	0.05723076	0.05475498	0.26501013
SACRAMENT	2035 T7 CAIRP	Aggregated	70 DSL	1060.50938	0.02352608	1.70615072	964.4472592	0.00109273	0.03522346	0.03369971	0.15159768
SACRAMENT	2035 T7 CAIRP con	Aggregated	70 DSL	435.848481	0.02363737	1.72424996	1060.656022	0.00109789	0.03554369	0.03400609	0.16672036
SACRAMENT	2035 T7 NNOOS	Aggregated	70 DSL	1292.90247	0.02196779	1.53830761	950.1797416	0.00102035	0.03051382	0.0291938	0.14935502
SACRAMENT	2035 T7 NOOS	Aggregated	70 DSL	416.714402	0.02355635	1.71031225	966.1288311	0.00109413	0.03532042	0.03379247	0.151862
SACRAMENT	2035 T7 other port	Aggregated	70 DSL	1.3353918	0.02515603	1.85425334	1044.935606	0.00116843	0.04001534	0.03828429	0.16424933
SACRAMENT	2035 T7 POAK	Aggregated	70 DSL	5.61815533	0.02548251	1.88833761	1061.699587	0.0011836	0.04099611	0.03922264	0.16688439
SACRAMENT	2035 T7 Public	Aggregated	70 DSL	2649.32997	0.02400311	2.36112897	1212.414449	0.00111488	0.01985364	0.01899478	0.19057467
SACRAMENT	2035 T7 Single	Aggregated	70 DSL	860.365646	0.01994288	1.41530245	1157.919111	0.0009263	0.02497613	0.02389567	0.18200876
SACRAMENT	2035 T7 single con	Aggregated	70 DSL	1081.25992	0.02069141	1.58669814	1197.670221	0.00096106	0.02679283	0.02563379	0.18825708
SACRAMENT	2035 T7 SWCV	Aggregated	70 DSL	0	0	0	0	0	0	0	0
SACRAMENT	2035 T7 SWCV	Aggregated	70 NG	0	0	0	0	0	0	0	0
SACRAMENT	2035 T7 tractor	Aggregated	70 DSL	10096.3071	0.02374356	1.81828611	1049.609022	0.00110283	0.03635159	0.03477904	0.16498392
SACRAMENT	2035 T7 tractor co	Aggregated	70 DSL	891.944236	0.02456919	1.97751527	1184.402685	0.00114118	0.03896722	0.03728151	0.18617161
SACRAMENT	2035 T7 utility	Aggregated	70 DSL	0.00119845	0.01639217	1.27432298	1234.544091	0.00076137	0.0160233	0.01533014	0.19405314
SACRAMENT	2035 UBUS	Aggregated	70 GAS	0	0	0	0	0	0	0	0
SACRAMENT	2035 UBUS	Aggregated	70 DSL	0	0	0	0	0	0	0	0
SACRAMENT	2035 UBUS	Aggregated	70 NG	0	0	0	0	0	0	0	0
<b>WEIGHTED AVERAGE 70 MPH</b>				<b>0.015800</b>	<b>0.254325</b>	<b>340.353108</b>	<b>0.002466</b>	<b>0.004597</b>	<b>0.004375</b>	<b>0.025926</b>	<b>185791.692</b>
<b>WEIGHTED AVERAGE ALL SPEEDS</b>				<b>0.016684</b>	<b>0.129260</b>	<b>277.238578</b>	<b>0.013933</b>	<b>0.001658</b>	<b>0.001559</b>	<b>0.012871</b>	
<b>TOTAL VMT 43411606.7</b>											

**APPENDIX D-2**  
**EMFAC2017 EMISSIONS CALCULATIONS**

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# EMFAC 2017

Jackson Orig Project -- Project Related VMT											
Speed Bin	Annual VMT (mi/yr)	CO2 EF (g/VMT)	CO2 Annual Emissions (tons per year)	CH4 EF (g/VMT)	CH4 Annual Emissions (tons per year)	N2O EF (g/VMT)	N2O Annual Emissions (tons per year)	CO2e Annual Emissions (metric tons per year)	CO2 Annual Emissions (metric tons per year)	CH4 Annual Emissions (metric tons per year)	N2O Annual Emissions (metric tons per year)
0.00-7.50	(151,933)	2094.316	-350.744	0.194141	-0.033	0.279719	-0.047	(332)	2,665		
7.51-12.50	2,324,666	1108.190	2839.695	0.146992	0.377	0.112765	0.289	2,665			
12.51-17.50	3,856,419	644.491	2739.670	0.083704	0.356	0.044390	0.189	2,546			
17.51-22.50	14,818,384	466.948	7627.223	0.176648	2.885	0.031878	0.521	7,130			
22.51-27.50	9,198,173	282.141	2860.647	0.005363	0.054	0.008892	0.090	2,623			
27.51-32.50	30,178,038	263.641	8770.013	0.004872	0.162	0.010208	0.340	8,057			
32.51-37.50	32,526,304	225.497	8084.869	0.003624	0.130	0.006839	0.245	7,409			
37.51-42.50	20,348,864	212.017	4755.632	0.003198	0.072	0.005605	0.126	4,353			
42.51-47.60	4,749,504	228.220	1194.808	0.004016	0.021	0.008145	0.043	1,097			
47.61-52.50	(3,229,677)	249.012	-886.495	0.003490	-0.012	0.010089	-0.036	(815)			
52.51-57.50	14,309,917	247.960	3911.258	0.003156	0.050	0.009586	0.151	3,593			
57.51-62.50	(2,314,502)	283.809	-724.070	0.004171	-0.011	0.015255	-0.039	(668)			
62.51-67.50	(94,141)	509.237	-52.844	0.003284	0.000	0.059416	-0.006	(50)			
67.51-72.50	(11,648)	340.353	-4.370	0.002466	0.000	0.025926	0.000	(4)			
<b>Total</b>	<b>126,508,368</b>		<b>40,765</b>		<b>4.1</b>		<b>1.9</b>	<b>37,603</b>	<b>37,007</b>	<b>3.7</b>	<b>1.7</b>

Jackson Alternative 2 -- Project Related VMT											
Speed Bin	Annual VMT (mi/yr)	CO2 EF (g/VMT)	CO2 Annual Emissions (tons per year)	CH4 EF (g/VMT)	CH4 Annual Emissions (tons per year)	N2O EF (g/VMT)	N2O Annual Emissions (tons per year)	CO2e Annual Emissions (metric tons per year)	CO2 Annual Emissions (metric tons per year)	CH4 Annual Emissions (metric tons per year)	N2O Annual Emissions (metric tons per year)
0.00-7.50	476,080	2094.316	1099.054	0.194141	0.102	0.279719	0.147	1,040			
7.51-12.50	2,187,373	1108.190	2671.985	0.146992	0.354	0.112765	0.272	2,507			
12.51-17.50	3,381,798	644.491	2402.491	0.083704	0.312	0.044390	0.165	2,233			
17.51-22.50	14,541,482	466.948	7484.698	0.176648	2.831	0.031878	0.511	6,997			
22.51-27.50	15,314,774	282.141	4762.921	0.005363	0.091	0.008892	0.150	4,366			
27.51-32.50	37,802,995	263.641	10985.895	0.004872	0.203	0.010208	0.425	10,093			
32.51-37.50	25,892,595	225.497	6435.968	0.003624	0.103	0.006839	0.195	5,898			
37.51-42.50	(8,991,360)	212.017	-2101.326	0.003198	-0.032	0.005605	-0.056	(1,923)			
42.51-47.60	27,256,192	228.220	6856.696	0.004016	0.121	0.008145	0.245	6,293			
47.61-52.50	(6,243,510)	249.012	-1713.745	0.003490	-0.024	0.010089	-0.069	(1,575)			
52.51-57.50	11,061,590	247.960	3023.409	0.003156	0.038	0.009586	0.117	2,777			
57.51-62.50	(8,937,069)	283.809	-2795.877	0.004171	-0.041	0.015255	-0.150	(2,580)			
62.51-67.50	61,402	509.237	34.466	0.003284	0.000	0.059416	0.004	32			
67.51-72.50	(579,392)	340.353	-217.370	0.002466	-0.002	0.025926	-0.017	(202)			
<b>Total</b>	<b>113,224,950</b>		<b>38,929</b>		<b>4.1</b>		<b>1.9</b>	<b>35,957</b>	<b>35,340</b>	<b>3.7</b>	<b>1.8</b>

Jackson Orig Project -- Cumulative VMT											
Speed Bin	Annual VMT (mi/yr)	CO2 EF (g/VMT)	CO2 Annual Emissions (tons per year)	CH4 EF (g/VMT)	CH4 Annual Emissions (tons per year)	N2O EF (g/VMT)	N2O Annual Emissions (tons per year)	CO2e Annual Emissions (metric tons per year)	CO2 Annual Emissions (metric tons per year)	CH4 Annual Emissions (metric tons per year)	N2O Annual Emissions (metric tons per year)
0.00-7.50	(180,371)	2094.316	-878.06	0.194141	-0.081	0.279719	-0.117	(831)			
7.51-12.50	3,242,301	1108.190	3960.632	0.146992	0.525	0.112765	0.403	3,716			
12.51-17.50	4,562,394	644.491	3241.207	0.083704	0.421	0.044390	0.223	3,012			
17.51-22.50	10,864,506	466.948	5592.108	0.176648	2.116	0.031878	0.382	5,228			
22.51-27.50	15,907,229	282.141	4947.175	0.005363	0.094	0.008892	0.156	4,535			
27.51-32.50	17,330,960	263.641	5036.535	0.004872	0.093	0.010208	0.195	4,627			
32.51-37.50	86,141,162	225.497	21411.595	0.003624	0.344	0.006839	0.649	19,621			
37.51-42.50	(21,924,368)	212.017	-5123.835	0.003198	-0.077	0.005605	-0.135	(4,690)			
42.51-47.60	(13,469,926)	228.220	-3388.558	0.004016	-0.060	0.008145	-0.121	(3,110)			
47.61-52.50	3,436,915	249.012	943.379	0.003490	0.013	0.010089	0.038	867			
52.51-57.50	(4,536,704)	247.960	-1239.995	0.003156	-0.016	0.009586	-0.048	(1,139)			
57.51-62.50	3,640,451	283.809	1138.880	0.004171	0.017	0.015255	0.061	1,051			
62.51-67.50	(2,635,565)	509.237	-1479.417	0.003284	-0.010	0.059416	-0.173	(1,390)			
67.51-72.50	119,162	340.353	44.706	0.002466	0.000	0.025926	0.003	42			
<b>Total</b>	<b>102,298,144</b>		<b>34,206</b>		<b>3.4</b>		<b>1.5</b>	<b>31,540</b>	<b>31,052</b>	<b>3.1</b>	<b>1.4</b>

Jackson Alternative 2 -- Cumulative VMT											
Speed Bin	Annual VMT (mi/yr)	CO2 EF (g/VMT)	CO2 Annual Emissions (tons per year)	CH4 EF (g/VMT)	CH4 Annual Emissions (tons per year)	N2O EF (g/VMT)	N2O Annual Emissions (tons per year)	CO2e Annual Emissions (metric tons per year)	CO2 Annual Emissions (metric tons per year)	CH4 Annual Emissions (metric tons per year)	N2O Annual Emissions (metric tons per year)
0.00-7.50	(89,885)	2094.316	-207.504	0.194141	-0.019	0.279719	-0.028	(196)			
7.51-12.50	928,499	1108.190	1134.208	0.146992	0.150	0.112765	0.115	1,064			
12.51-17.50	5,254,163	644.491	3732.652	0.083704	0.485	0.044390	0.257	3,469			
17.51-22.50	15,427,162	466.948	7940.569	0.176648	3.004	0.031878	0.542	7,423			
22.51-27.50	17,953,696	282.141	5583.630	0.005363	0.106	0.008892	0.176	5,119			
27.51-32.50	1,949,126	263.641	566.434	0.004872	0.010	0.010208	0.022	520			
32.51-37.50	81,251,722	225.497	20196.256	0.003624	0.325	0.006839	0.613	18,507			
37.51-42.50	(14,468,918)	212.017	-3381.459	0.003198	-0.051	0.005605	-0.089	(3,095)			
42.51-47.60	(11,112,189)	228.220	-2795.435	0.004016	-0.049	0.008145	-0.100	(2,566)			
47.61-52.50	(41,788,573)	249.012	-11470.301	0.003490	-0.161	0.010089	-0.465	(10,542)			
52.51-57.50	39,457,494	247.960	10784.719	0.003156	0.137	0.009586	0.117	9,906			
57.51-62.50	(3,716,096)	283.809	-1162.545	0.004171	-0.017	0.015255	-0.062	(1,073)			
62.51-67.50	(117,946)	509.237	-66.206	0.003284	0.000	0.059416	-0.008	(62)			
67.51-72.50	(202,358)	340.353	-75.919	0.002466	-0.001	0.025926	-0.006	(70)			
<b>Total</b>	<b>90,725,898</b>		<b>30,779</b>		<b>3.9</b>		<b>1.4</b>	<b>28,405</b>	<b>27,941</b>	<b>3.6</b>	<b>1.3</b>

Jackson Original Project -- BAU VMT											
Speed Bin	Annual VMT (mi/yr)	CO2 EF (g/VMT)	CO2 Annual Emissions (tons per year)	CH4 EF (g/VMT)	CH4 Annual Emissions (tons per year)	N2O EF (g/VMT)	N2O Annual Emissions (tons per year)	CO2e Annual Emissions (metric tons per year)	CO2 Annual Emissions (metric tons per year)	CH4 Annual Emissions (metric tons per year)	N2O Annual Emissions (metric tons per year)
0.00-7.5	238,448,655	277.239	72869.451	0.013933	3.662	0.012871	3.383	67,149	66,151	3.3	3.1

Jackson Alternative 2 -- BAU VMT											
Speed Bin	Annual VMT (mi/yr)	CO2 EF (g/VMT)	CO2 Annual Emissions (tons per year)	CH4 EF (g/VMT)	CH4 Annual Emissions (tons per year)	N2O EF (g/VMT)	N2O Annual Emissions (tons per year)	CO2e Annual Emissions (metric tons per year)	CO2 Annual Emissions (metric tons per year)	CH4 Annual Emissions (metric tons per year)	N2O Annual Emissions (metric tons per year)
0.00-7.5	222,962,916	277.239	68137.039	0.013933	3.424	0.012871	3.163	62,788	61,855	3.1	2.9

CO2e Difference Between BAU and Proposed Project	
Original Project BAU minus Project Related VMT	29,546 MT/yr
Alternative 2 BAU minus Project Related VMT	26,831 MT/yr
Original Project BAU minus Cumulative VMT	35,610 MT/yr
Alternative 2 BAU minus Cumulative VMT	34,384 MT/yr

**APPENDIX E**  
**ORIGINAL PROJECT AND ALTERNATIVE 2**  
**ANNUAL OPERATIONAL EMISSION ESTIMATES**

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**APPENDIX E-1**

**ORIGINAL PROJECT ANNUAL OPERATIONAL EMISSIONS – PROJECT-RELATED VMT**

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Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

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Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	298.40	1000sqft	8.22	298,400.00	0
Hospital	433.40	1000sqft	11.94	433,400.00	0
Office Park	0.00	1000sqft	0.00	0.00	0
Pharmacy/Drugstore with Drive Thru	32.30	1000sqft	1.20	32,300.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,123.00	0
Parking Lot	465.20	1000sqft	10.68	465,200.00	0
Parking Lot	386.80	1000sqft	8.88	386,800.00	0
Parking Lot	154.20	1000sqft	3.54	154,200.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	94.10	1000sqft	2.16	94,100.00	0
Parking Lot	271.80	1000sqft	6.24	271,800.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	452.00	1000sqft	10.38	452,000.00	0
Parking Lot	341.50	1000sqft	7.84	341,500.00	0

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Parking Lot	173.40	1000sqft	3.98	173,400.00	0
Parking Lot	238.70	1000sqft	5.48	238,700.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Unenclosed Parking with Elevator	173.40	1000sqft	3.98	173,400.00	0
Unenclosed Parking with Elevator	0.00	1000sqft	0.00	0.00	0
City Park	39.20	Acre	39.20	1,707,552.00	0
City Park	39.10	Acre	39.10	1,703,196.00	0
Fast Food Restaurant with Drive Thru	38.70	1000sqft	1.44	38,700.00	0
Apartments Mid Rise	2,137.00	Dwelling Unit	85.00	2,137,000.00	5706
Apartments Mid Rise	100.00	Dwelling Unit	11.76	178,600.00	267
Single Family Housing	2,134.00	Dwelling Unit	355.70	3,841,200.00	5698
Single Family Housing	1,772.00	Dwelling Unit	136.30	3,189,600.00	4731
Convenience Market (24 Hour)	3.20	1000sqft	0.12	3,200.00	0
Discount Club	193.70	1000sqft	7.12	193,700.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.12	3,000.00	0
Hardware/Paint Store	32.30	1000sqft	1.20	32,300.00	0
Home Improvement Superstore	161.40	1000sqft	5.92	161,400.00	0
Strip Mall	113.00	1000sqft	4.16	113,000.00	0
Strip Mall	188.60	1000sqft	6.92	188,600.00	0
Strip Mall	248.40	1000sqft	0.00	248,400.00	0
Supermarket	64.60	1000sqft	2.36	64,600.00	0

1.2 Other Project Characteristics

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<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	236.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O intensity SMUD default.

Land Use - Non-default from Project Description. Mixed Use Retail lot acreage set to 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Vehicle Trips - Trip frequencies and lengths adjusted to match Traffic Study.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,181,312.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,543,935.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,148.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	6,308,820.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	18,926,460.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00

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tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,237.00
tblFireplaces	NumberGas	0.00	3,906.00
tblFireplaces	NumberNoFireplace	2,237.00	0.00
tblFireplaces	NumberNoFireplace	3,906.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,123.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	6.85	8.22
tblLandUse	LotAcreage	9.95	11.94
tblLandUse	LotAcreage	0.74	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.89	1.44
tblLandUse	LotAcreage	56.24	85.00
tblLandUse	LotAcreage	2.63	11.76
tblLandUse	LotAcreage	692.86	355.70
tblLandUse	LotAcreage	575.32	136.30







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tblVehicleTrips	CNW_TL	6.50	4.00
tblVehicleTrips	CNW_TL	6.50	4.00
tblVehicleTrips	CNW_TL	6.50	4.00
tblVehicleTrips	CNW_TL	6.50	4.00
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
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tblVehicleTrips	CW_TL	10.00	6.10
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tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	HO_TL	6.50	4.00
tblVehicleTrips	HO_TL	6.50	4.00
tblVehicleTrips	HS_TL	5.00	3.00
tblVehicleTrips	HS_TL	5.00	3.00

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tblVehicleTrips	HW_TL	10.00	6.10
tblVehicleTrips	HW_TL	10.00	6.10
tblVehicleTrips	ST_TR	6.39	5.30
tblVehicleTrips	ST_TR	22.75	19.00
tblVehicleTrips	ST_TR	863.10	718.00
tblVehicleTrips	ST_TR	2.46	2.10
tblVehicleTrips	ST_TR	4.37	3.60
tblVehicleTrips	ST_TR	46.55	38.90
tblVehicleTrips	ST_TR	1.64	1.30
tblVehicleTrips	ST_TR	9.91	8.30
tblVehicleTrips	ST_TR	42.04	35.00
tblVehicleTrips	ST_TR	177.59	145.00
tblVehicleTrips	SU_TR	5.86	4.80
tblVehicleTrips	SU_TR	16.74	13.90
tblVehicleTrips	SU_TR	758.45	631.00
tblVehicleTrips	SU_TR	1.05	0.80
tblVehicleTrips	SU_TR	1.79	1.50
tblVehicleTrips	SU_TR	25.49	21.20
tblVehicleTrips	SU_TR	0.76	0.60
tblVehicleTrips	SU_TR	8.62	7.30
tblVehicleTrips	SU_TR	20.43	17.10
tblVehicleTrips	SU_TR	166.44	138.60
tblVehicleTrips	WD_TR	6.65	5.50
tblVehicleTrips	WD_TR	1.89	1.50
tblVehicleTrips	WD_TR	737.99	614.00
tblVehicleTrips	WD_TR	15.43	12.90
tblVehicleTrips	WD_TR	11.03	9.10

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tblVehicleTrips	WD_TR	12.89	10.70
tblVehicleTrips	WD_TR	56.24	46.80
tblVehicleTrips	WD_TR	11.42	9.10
tblVehicleTrips	WD_TR	9.52	7.90
tblVehicleTrips	WD_TR	44.32	37.00
tblVehicleTrips	WD_TR	102.24	85.00

## 2.0 Emissions Summary

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638
Energy	0.9559	8.3287	4.6525	0.0521		0.6604	0.6604		0.6604	0.6604	0.0000	17,657.6676	17,657.6676	1.1849	0.3811	17,800.8446
Mobile	14.7025	77.8328	113.5820	0.4494	47.1142	0.2572	47.3714	12.6146	0.2386	12.8532	0.0000	41,678.6853	41,678.6853	1.9242	0.0000	41,726.7899
Waste						0.0000	0.0000		0.0000	0.0000	3,020.5279	0.0000	3,020.5279	178.5081	0.0000	7,483.2299
Water						0.0000	0.0000		0.0000	0.0000	217.6233	506.9556	724.5790	0.8111	0.4861	889.7139
<b>Total</b>	<b>70.7065</b>	<b>88.2492</b>	<b>182.0183</b>	<b>0.5136</b>	<b>47.1142</b>	<b>1.3790</b>	<b>48.4932</b>	<b>12.6146</b>	<b>1.3605</b>	<b>13.9751</b>	<b>3,238.1512</b>	<b>61,520.4493</b>	<b>64,758.6004</b>	<b>182.5573</b>	<b>0.8960</b>	<b>69,589.5420</b>

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**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	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638
Energy	0.8306	7.2383	4.0509	0.0453		0.5739	0.5739		0.5739	0.5739	0.0000	11,198.5814	11,198.5814	0.5222	0.2261	11,279.0252
Mobile	14.7025	77.8328	113.5820	0.4494	47.1142	0.2572	47.3714	12.6146	0.2386	12.8532	0.0000	41,678.6853	41,678.6853	1.9242	0.0000	41,726.7899
Waste						0.0000	0.0000		0.0000	0.0000	3,020.5279	0.0000	3,020.5279	178.5081	0.0000	7,483.2299
Water						0.0000	0.0000		0.0000	0.0000	217.6233	506.9556	724.5790	0.8111	0.4861	889.7139
<b>Total</b>	<b>70.5812</b>	<b>87.1588</b>	<b>181.4167</b>	<b>0.5067</b>	<b>47.1142</b>	<b>1.2925</b>	<b>48.4067</b>	<b>12.6146</b>	<b>1.2739</b>	<b>13.8885</b>	<b>3,238.1512</b>	<b>55,061.3630</b>	<b>58,299.5142</b>	<b>181.8946</b>	<b>0.7411</b>	<b>63,067.7227</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.18</b>	<b>1.24</b>	<b>0.33</b>	<b>1.33</b>	<b>0.00</b>	<b>6.28</b>	<b>0.18</b>	<b>0.00</b>	<b>6.36</b>	<b>0.62</b>	<b>0.00</b>	<b>10.50</b>	<b>9.97</b>	<b>0.36</b>	<b>17.29</b>	<b>9.37</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

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

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

**Acres of Paving: 84.62**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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



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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	14.7025	77.8328	113.5820	0.4494	47.1142	0.2572	47.3714	12.6146	0.2386	12.8532	0.0000	41,678.68 53	41,678.68 53	1.9242	0.0000	41,726.78 99
Unmitigated	14.7025	77.8328	113.5820	0.4494	47.1142	0.2572	47.3714	12.6146	0.2386	12.8532	0.0000	41,678.68 53	41,678.68 53	1.9242	0.0000	41,726.78 99



Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,130.19	3,130.19	3130.19	1,664,400	1,664,400
Single Family Housing	16,858.60	17,712.20	15578.20	26,344,881	26,344,881
Single Family Housing	13,998.80	14,707.60	12935.60	21,875,881	21,875,881
Strip Mall	4,181.00	3,955.00	1932.30	2,859,584	2,859,584
Strip Mall	6,978.20	6,601.00	3225.06	4,772,722	4,772,722
Strip Mall	9,190.80	8,694.00	4247.64	6,286,024	6,286,024
Supermarket	5,491.00	9,367.00	8953.56	3,435,940	3,435,940
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>134,287.76</b>	<b>148,057.31</b>	<b>119,208.02</b>	<b>126,596,742</b>	<b>126,596,742</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	6.10	3.00	4.00	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	6.10	3.00	4.00	46.50	12.50	41.00	86	11	3
City Park	6.10	3.00	4.00	33.00	48.00	19.00	66	28	6
City Park	6.10	3.00	4.00	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	6.10	3.00	4.00	0.90	80.10	19.00	24	15	61
Discount Club	6.10	3.00	4.00	16.70	64.30	19.00	45	40	15
Elementary School	6.10	3.00	4.00	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	6.10	3.00	4.00	2.20	78.80	19.00	29	21	50
Gasoline/Service Station	6.10	3.00	4.00	2.00	79.00	19.00	14	27	59
Gasoline/Service Station	6.10	3.00	4.00	2.00	79.00	19.00	14	27	59
General Office Building	6.10	3.00	4.00	33.00	48.00	19.00	77	19	4
Hardware/Paint Store	6.10	3.00	4.00	13.60	67.40	19.00	45	29	26
High School	6.10	3.00	4.00	77.80	17.20	5.00	75	19	6
Home Improvement Superstore	6.10	3.00	4.00	23.40	57.60	19.00	32	20	48
Hospital	6.10	3.00	4.00	64.90	16.10	19.00	73	25	2

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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
Library	6.10	3.00	4.00	52.00	43.00	5.00	44	44	12
Office Park	6.10	3.00	4.00	33.00	48.00	19.00	82	15	3
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	6.10	3.00	4.00	7.50	73.50	19.00	38	13	49
Single Family Housing	6.10	3.00	4.00	46.50	12.50	41.00	86	11	3
Single Family Housing	6.10	3.00	4.00	46.50	12.50	41.00	86	11	3
Strip Mall	6.10	3.00	4.00	16.60	64.40	19.00	45	40	15
Strip Mall	6.10	3.00	4.00	16.60	64.40	19.00	45	40	15
Strip Mall	6.10	3.00	4.00	16.60	64.40	19.00	45	40	15
Supermarket	6.10	3.00	4.00	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
User Defined Industrial	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hospital	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Office Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Unenclosed Parking with Elevator	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,978.6014	2,978.6014	0.3646	0.0754	3,010.1979
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	8,197.9374	8,197.9374	1.0036	0.2076	8,284.8999
NaturalGas Mitigated	0.8306	7.2383	4.0509	0.0453		0.5739	0.5739		0.5739	0.5739	0.0000	8,219.9800	8,219.9800	0.1576	0.1507	8,268.8273
NaturalGas Unmitigated	0.9559	8.3287	4.6525	0.0521		0.6604	0.6604		0.6604	0.6604	0.0000	9,459.7302	9,459.7302	0.1813	0.1734	9,515.9447

**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 Mid Rise	2.08317e+007	0.1123	0.9599	0.4085	6.1300e-003		0.0776	0.0776		0.0776	0.0776	0.0000	1,111.6583	1,111.6583	0.0213	0.0204	1,118.2643
Apartments Mid Rise	974810	5.2600e-003	0.0449	0.0191	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	52.0196	52.0196	1.0000e-003	9.5000e-004	52.3287

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	17344	9.0000e-005	8.5000e-004	7.1000e-004	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.9255	0.9255	2.0000e-005	2.0000e-005	0.9310
Discount Club	1.04985e+006	5.6600e-003	0.0515	0.0432	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	56.0242	56.0242	1.0700e-003	1.0300e-003	56.3571
Elementary School	3.4335e+006	0.0185	0.1683	0.1414	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.2246	183.2246	3.5100e-003	3.3600e-003	184.3135
Fast Food Restaurant with Drive Thru	6.87699e+006	0.0371	0.3371	0.2832	2.0200e-003		0.0256	0.0256		0.0256	0.0256	0.0000	366.9824	366.9824	7.0300e-003	6.7300e-003	369.1632
Gasoline/Service Station	107430	5.8000e-004	5.2700e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	5.7329	5.7329	1.1000e-004	1.1000e-004	5.7669
Gasoline/Service Station	232765	1.2600e-003	0.0114	9.5800e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4212	12.4212	2.4000e-004	2.3000e-004	12.4950
General Office Building	3.90904e+006	0.0211	0.1916	0.1610	1.1500e-003		0.0146	0.0146		0.0146	0.0146	0.0000	208.6013	208.6013	4.0000e-003	3.8200e-003	209.8409
Hardware/Paint Store	175066	9.4000e-004	8.5800e-003	7.2100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3422	9.3422	1.8000e-004	1.7000e-004	9.3977
High School	3.815e+006	0.0206	0.1870	0.1571	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	203.5829	203.5829	3.9000e-003	3.7300e-003	204.7927
Home Improvement Superstore	874788	4.7200e-003	0.0429	0.0360	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	46.6820	46.6820	8.9000e-004	8.6000e-004	46.9594
Hospital	2.92632e+007	0.1578	1.4345	1.2050	8.6100e-003		0.1090	0.1090		0.1090	0.1090	0.0000	1,561.5941	1,561.5941	0.0299	0.0286	1,570.8739
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	175066	9.4000e-004	8.5800e-003	7.2100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3422	9.3422	1.8000e-004	1.7000e-004	9.3977
Single Family Housing	4.57791e+007	0.2469	2.1094	0.8976	0.0135		0.1706	0.1706		0.1706	0.1706	0.0000	2,442.9456	2,442.9456	0.0468	0.0448	2,457.4628

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	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					
Single Family Housing	5.51312e+007	0.2973	2.5404	1.0810	0.0162		0.2054	0.2054		0.2054	0.2054	0.0000	2,942.0123	2,942.0123	0.0564	0.0539	2,959.4952
Strip Mall	1.02221e+006	5.5100e-003	0.0501	0.0421	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.5491	54.5491	1.0500e-003	1.0000e-003	54.8733
Strip Mall	1.34633e+006	7.2600e-003	0.0660	0.0554	4.0000e-004		5.0200e-003	5.0200e-003		5.0200e-003	5.0200e-003	0.0000	71.8452	71.8452	1.3800e-003	1.3200e-003	72.2721
Strip Mall	612460	3.3000e-003	0.0300	0.0252	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6832	32.6832	6.3000e-004	6.0000e-004	32.8774
Supermarket	1.64084e+006	8.8500e-003	0.0804	0.0676	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.5615	87.5615	1.6800e-003	1.6100e-003	88.0818
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.9559</b>	<b>8.3287</b>	<b>4.6524</b>	<b>0.0522</b>		<b>0.6604</b>	<b>0.6604</b>		<b>0.6604</b>	<b>0.6604</b>	<b>0.0000</b>	<b>9,459.7303</b>	<b>9,459.7303</b>	<b>0.1813</b>	<b>0.1735</b>	<b>9,515.9447</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	865363	4.6700e-003	0.0399	0.0170	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.1791	46.1791	8.9000e-004	8.5000e-004	46.4535
Apartments Mid Rise	1.84928e+007	0.0997	0.8521	0.3626	5.4400e-003		0.0689	0.0689		0.0689	0.0689	0.0000	986.8466	986.8466	0.0189	0.0181	992.7109
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	15117	8.0000e-005	7.4000e-004	6.2000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8067	0.8067	2.0000e-005	1.0000e-005	0.8115



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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Discount Club	915048	4.9300e-003	0.0449	0.0377	2.7000e-004		3.4100e-003	3.4100e-003		3.4100e-003	3.4100e-003	0.0000	48.8305	48.8305	9.4000e-004	9.0000e-004	49.1207
Elementary School	2.92433e+006	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	156.0531	156.0531	2.9900e-003	2.8600e-003	156.9805
Fast Food Restaurant with Drive Thru	6.51912e+006	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8850	347.8850	6.6700e-003	6.3800e-003	349.9524
Gasoline/Service Station	209200	1.1300e-003	0.0103	8.6100e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.1637	11.1637	2.1000e-004	2.0000e-004	11.2300
Gasoline/Service Station	96553.7	5.2000e-004	4.7300e-003	3.9800e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1525	5.1525	1.0000e-004	9.0000e-005	5.1831
General Office Building	3.33459e+006	0.0180	0.1635	0.1373	9.8000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	177.9464	177.9464	3.4100e-003	3.2600e-003	179.0039
Hardware/Paint Store	152587	8.2000e-004	7.4800e-003	6.2800e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	8.1426	8.1426	1.6000e-004	1.5000e-004	8.1910
High School	3.24925e+006	0.0175	0.1593	0.1338	9.6000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	173.3924	173.3924	3.3200e-003	3.1800e-003	174.4227
Home Improvement Superstore	762462	4.1100e-003	0.0374	0.0314	2.2000e-004		2.8400e-003	2.8400e-003		2.8400e-003	2.8400e-003	0.0000	40.6879	40.6879	7.8000e-004	7.5000e-004	40.9297
Hospital	2.53729e+007	0.1368	1.2438	1.0448	7.4600e-003		0.0945	0.0945		0.0945	0.0945	0.0000	1,353.9971	1,353.9971	0.0260	0.0248	1,362.0433
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	152587	8.2000e-004	7.4800e-003	6.2800e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	8.1426	8.1426	1.6000e-004	1.5000e-004	8.1910
Single Family Housing	3.94213e+007	0.2126	1.8165	0.7730	0.0116		0.1469	0.1469		0.1469	0.1469	0.0000	2,103.6721	2,103.6721	0.0403	0.0386	2,116.1732
Single Family Housing	4.74747e+007	0.2560	2.1876	0.9309	0.0140		0.1769	0.1769		0.1769	0.1769	0.0000	2,533.4290	2,533.4290	0.0486	0.0465	2,548.4839
Strip Mall	1.17345e+006	6.3300e-003	0.0575	0.0483	3.5000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003	0.0000	62.6200	62.6200	1.2000e-003	1.1500e-003	62.9921

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Strip Mall	533818	2.8800e-003	0.0262	0.0220	1.6000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	28.4865	28.4865	5.5000e-004	5.2000e-004	28.6558
Strip Mall	890956	4.8000e-003	0.0437	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003	0.0000	47.5448	47.5448	9.1000e-004	8.7000e-004	47.8273
Supermarket	1.48043e+006	7.9800e-003	0.0726	0.0610	4.4000e-004		5.5200e-003	5.5200e-003		5.5200e-003	5.5200e-003	0.0000	79.0015	79.0015	1.5100e-003	1.4500e-003	79.4709
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.8306</b>	<b>7.2383</b>	<b>4.0509</b>	<b>0.0453</b>		<b>0.5739</b>	<b>0.5739</b>		<b>0.5739</b>	<b>0.5739</b>	<b>0.0000</b>	<b>8,219.9800</b>	<b>8,219.9800</b>	<b>0.1576</b>	<b>0.1507</b>	<b>8,268.8273</b>

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	425646	45.7382	5.6000e-003	1.1600e-003	46.2234
Apartments Mid Rise	9.09606e+006	977.4260	0.1197	0.0248	987.7944
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	37024	3.9785	4.9000e-004	1.0000e-004	4.0207
Discount Club	2.24111e+006	240.8207	0.0295	6.1000e-003	243.3753
Elementary School	1.647e+006	176.9801	0.0217	4.4800e-003	178.8575

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	1.61418e+006	173.4531	0.0212	4.3900e-003	175.2930
Gasoline/Service Station	45540	4.8936	6.0000e-004	1.2000e-004	4.9455
Gasoline/Service Station	98670	10.6027	1.3000e-003	2.7000e-004	10.7152
General Office Building	4.3089e+006	463.0169	0.0567	0.0117	467.9285
Hardware/Paint Store	373711	40.1575	4.9200e-003	1.0200e-003	40.5835
High School	1.83e+006	196.6445	0.0241	4.9800e-003	198.7305
Home Improvement Superstore	1.8674e+006	200.6632	0.0246	5.0800e-003	202.7918
Hospital	8.81102e+006	946.7975	0.1159	0.0240	956.8410
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	119525	12.8437	1.5700e-003	3.3000e-004	12.9799
Parking Lot	135380	14.5474	1.7800e-003	3.7000e-004	14.7017
Parking Lot	158200	16.9995	2.0800e-003	4.3000e-004	17.1799
Parking Lot	162820	17.4960	2.1400e-003	4.4000e-004	17.6816
Parking Lot	213430	22.9343	2.8100e-003	5.8000e-004	23.1776
Parking Lot	2730	0.5867	7.0000e-005	1.0000e-005	0.5929

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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Parking Lot	27440	5.8972	7.2000e-004	1.5000e-004	5.9597
Parking Lot	32935	3.5391	4.3000e-004	9.0000e-005	3.5766
Parking Lot	47880	5.1450	6.3000e-004	1.3000e-004	5.1996
Parking Lot	53970	5.7994	7.1000e-004	1.5000e-004	5.8609
Parking Lot	5495	0.5905	7.0000e-005	1.0000e-005	0.5967
Parking Lot	60690	6.5215	8.0000e-004	1.7000e-004	6.5907
Parking Lot	83545	8.9774	1.1000e-003	2.3000e-004	9.0727
Parking Lot	95130	10.2223	1.2500e-003	2.6000e-004	10.3307
Pharmacy/Drugstore with Drive Thru	373711	40.1575	4.9200e-003	1.0200e-003	40.5835
Single Family Housing	1.49624e+007	1,607.7978	0.1968	0.0407	1,624.8531
Single Family Housing	1.8019e+007	1,936.2531	0.2370	0.0490	1,956.7926
Strip Mall	1.30741e+006	140.4891	0.0172	3.5600e-003	141.9794
Strip Mall	2.1821e+006	234.4800	0.0287	5.9400e-003	236.9674
Strip Mall	2.87399e+006	308.8274	0.0378	7.8200e-003	312.1033
Supermarket	2.61049e+006	280.5125	0.0343	7.1000e-003	283.4881
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	336396	36.1478	4.4300e-003	9.2000e-004	36.5312

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8,197.9374</b>	<b>1.0035</b>	<b>0.2076</b>	<b>8,284.8999</b>

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	156520	16.8190	2.0600e-003	4.3000e-004	16.9974
Apartments Mid Rise	3.34482e+006	359.4216	0.0440	9.1000e-003	363.2343
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	13242.2	1.4230	1.7000e-004	4.0000e-005	1.4381
Discount Club	801569	86.1334	0.0105	2.1800e-003	87.0471
Elementary School	589239	63.3173	7.7500e-003	1.6000e-003	63.9890
Fast Food Restaurant with Drive Thru	583960	62.7500	7.6800e-003	1.5900e-003	63.4157
Gasoline/Service Station	16438.9	1.7665	2.2000e-004	4.0000e-005	1.7852
Gasoline/Service Station	35617.7	3.8273	4.7000e-004	1.0000e-004	3.8679
General Office Building	1.52538e+006	163.9115	0.0201	4.1500e-003	165.6502

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hardware/Paint Store	133664	14.3630	1.7600e-003	3.6000e-004	14.5153
High School	654710	70.3526	8.6100e-003	1.7800e-003	71.0989
Home Improvement Superstore	667905	71.7704	8.7900e-003	1.8200e-003	72.5318
Hospital	3.06468e+006	329.3186	0.0403	8.3400e-003	332.8119
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1021.02	0.2194	3.0000e-005	1.0000e-005	0.2218
Parking Lot	10262.6	2.2056	2.7000e-004	6.0000e-005	2.2289
Parking Lot	12317.7	1.3236	1.6000e-004	3.0000e-005	1.3377
Parking Lot	17907.1	1.9242	2.4000e-004	5.0000e-005	1.9446
Parking Lot	20184.8	2.1690	2.7000e-004	5.0000e-005	2.1920
Parking Lot	2055.13	0.2208	3.0000e-005	1.0000e-005	0.2232
Parking Lot	22698.1	2.4390	3.0000e-004	6.0000e-005	2.4649
Parking Lot	31245.8	3.3576	4.1000e-004	9.0000e-005	3.3932
Parking Lot	35578.6	3.8231	4.7000e-004	1.0000e-004	3.8637
Parking Lot	44702.3	4.8035	5.9000e-004	1.2000e-004	4.8545
Parking Lot	50632.1	5.4407	6.7000e-004	1.4000e-004	5.4984

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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Parking Lot	59166.8	6.3578	7.8000e-004	1.6000e-004	6.4253
Parking Lot	60894.7	6.5435	8.0000e-004	1.7000e-004	6.6129
Parking Lot	79822.8	8.5774	1.0500e-003	2.2000e-004	8.6684
Pharmacy/Drugstore with Drive Thru	133664	14.3630	1.7600e-003	3.6000e-004	14.5153
Single Family Housing	5.52618e+006	593.8218	0.0727	0.0150	600.1210
Single Family Housing	6.65512e+006	715.1330	0.0875	0.0181	722.7190
Strip Mall	1.02793e+006	110.4571	0.0135	2.8000e-003	111.6288
Strip Mall	467616	50.2482	6.1500e-003	1.2700e-003	50.7812
Strip Mall	780464	83.8656	0.0103	2.1200e-003	84.7552
Supermarket	954939	102.6139	0.0126	2.6000e-003	103.7024
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	125812	13.5193	1.6500e-003	3.4000e-004	13.6627
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,978.6014</b>	<b>0.3646</b>	<b>0.0754</b>	<b>3,010.1979</b>

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638
Unmitigated	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638

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	6.9946					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	45.9999					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1590	1.3587	0.5782	8.6700e-003		0.1099	0.1099		0.1099	0.1099	0.0000	1,573.5066	1,573.5066	0.0302	0.0289	1,582.8572
Landscaping	1.8946	0.7290	63.2057	3.3500e-003		0.3516	0.3516		0.3516	0.3516	0.0000	103.6341	103.6341	0.0989	0.0000	106.1066
<b>Total</b>	<b>55.0481</b>	<b>2.0877</b>	<b>63.7838</b>	<b>0.0120</b>		<b>0.4614</b>	<b>0.4614</b>		<b>0.4614</b>	<b>0.4614</b>	<b>0.0000</b>	<b>1,677.1407</b>	<b>1,677.1407</b>	<b>0.1291</b>	<b>0.0289</b>	<b>1,688.9638</b>



Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, 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	6.9946					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	45.9999					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1590	1.3587	0.5782	8.6700e-003		0.1099	0.1099		0.1099	0.1099	0.0000	1,573.5066	1,573.5066	0.0302	0.0289	1,582.8572
Landscaping	1.8946	0.7290	63.2057	3.3500e-003		0.3516	0.3516		0.3516	0.3516	0.0000	103.6341	103.6341	0.0989	0.0000	106.1066
<b>Total</b>	<b>55.0481</b>	<b>2.0877</b>	<b>63.7838</b>	<b>0.0120</b>		<b>0.4614</b>	<b>0.4614</b>		<b>0.4614</b>	<b>0.4614</b>	<b>0.0000</b>	<b>1,677.1407</b>	<b>1,677.1407</b>	<b>0.1291</b>	<b>0.0289</b>	<b>1,688.9638</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	724.5790	0.8111	0.4861	889.7139
Unmitigated	724.5790	0.8111	0.4861	889.7139

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	145.75 / 91.8856	164.1601	0.1913	0.1150	203.2094
City Park	0 / 93.293	35.0871	4.3000e-003	8.9000e-004	35.4593
Convenience Market (24 Hour)	0.237032 / 0.145278	0.2654	3.1000e-004	1.9000e-004	0.3289
Discount Club	14.3478 / 8.79384	16.0656	0.0188	0.0113	19.9087
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.7468 / 0.749793	10.7274	0.0151	9.2000e-003	13.8480

## Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	53.0358 / 32.5058	59.3853	0.0696	0.0418	73.5910
Hardware/Paint Store	2.39254 / 1.4664	2.6790	3.1400e-003	1.8900e-003	3.3198
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	11.9553 / 7.32744	13.3866	0.0157	9.4300e-003	16.5889
Hospital	54.3833 / 10.3587	52.2541	0.0703	0.0427	66.7291
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.27546 / 1.39463	2.5479	2.9800e-003	1.7900e-003	3.1574
Single Family Housing	254.492 / 160.44	286.6380	0.3340	0.2008	354.8215
Strip Mall	40.7399 / 24.9696	45.6174	0.0534	0.0321	56.5296
Supermarket	7.96313 / 0.246282	7.1735	0.0102	6.2400e-003	9.2880
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>724.5789</b>	<b>0.8111</b>	<b>0.4861</b>	<b>889.7139</b>

## 7.2 Water by Land Use

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	145.75 / 91.8856	164.1601	0.1913	0.1150	203.2094
City Park	0 / 93.293	35.0871	4.3000e-003	8.9000e-004	35.4593
Convenience Market (24 Hour)	0.237032 / 0.145278	0.2654	3.1000e-004	1.9000e-004	0.3289
Discount Club	14.3478 / 8.79384	16.0656	0.0188	0.0113	19.9087
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.7468 / 0.749793	10.7274	0.0151	9.2000e-003	13.8480
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	53.0358 / 32.5058	59.3853	0.0696	0.0418	73.5910
Hardware/Paint Store	2.39254 / 1.4664	2.6790	3.1400e-003	1.8900e-003	3.3198
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	11.9553 / 7.32744	13.3866	0.0157	9.4300e-003	16.5889
Hospital	54.3833 / 10.3587	52.2541	0.0703	0.0427	66.7291
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000

## Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Pharmacy/Drugstore with Drive Thru	2.27546 / 1.39463	2.5479	2.9800e-003	1.7900e-003	3.1574
Single Family Housing	254.492 / 160.44	286.6380	0.3340	0.2008	354.8215
Strip Mall	40.7399 / 24.9696	45.6174	0.0534	0.0321	56.5296
Supermarket	7.96313 / 0.246282	7.1735	0.0102	6.2400e-003	9.2880
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>724.5789</b>	<b>0.8111</b>	<b>0.4861</b>	<b>889.7139</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3,020.5279	178.5081	0.0000	7,483.2299
Unmitigated	3,020.5279	178.5081	0.0000	7,483.2299

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1029.02	208.8818	12.3446	0.0000	517.4957
City Park	6.73	1.3661	0.0807	0.0000	3.3845
Convenience Market (24 Hour)	9.62	1.9528	0.1154	0.0000	4.8379
Discount Club	833.05	169.1016	9.9936	0.0000	418.9421
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	445.78	90.4893	5.3478	0.0000	224.1834

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	277.51	56.3320	3.3291	0.0000	139.5602
Hardware/Paint Store	358.18	72.7073	4.2969	0.0000	180.1293
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1789.79	363.3112	21.4711	0.0000	900.0881
Hospital	4680.72	950.1439	56.1519	0.0000	2,353.9412
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.13	19.7165	1.1652	0.0000	48.8468
Single Family Housing	3754.44	762.1174	45.0399	0.0000	1,888.1136
Strip Mall	577.5	117.2273	6.9279	0.0000	290.4256
Supermarket	364.34	73.9577	4.3708	0.0000	183.2271
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3,020.5279</b>	<b>178.5081</b>	<b>0.0000</b>	<b>7,483.2299</b>

8.2 Waste by Land Use

## Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1029.02	208.8818	12.3446	0.0000	517.4957
City Park	6.73	1.3661	0.0807	0.0000	3.3845
Convenience Market (24 Hour)	9.62	1.9528	0.1154	0.0000	4.8379
Discount Club	833.05	169.1016	9.9936	0.0000	418.9421
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	445.78	90.4893	5.3478	0.0000	224.1834
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	277.51	56.3320	3.3291	0.0000	139.5602
Hardware/Paint Store	358.18	72.7073	4.2969	0.0000	180.1293
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1789.79	363.3112	21.4711	0.0000	900.0881
Hospital	4680.72	950.1439	56.1519	0.0000	2,353.941 2
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000



Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Pharmacy/Drugstore with Drive Thru	97.13	19.7165	1.1652	0.0000	48.8468
Single Family Housing	3754.44	762.1174	45.0399	0.0000	1,888.1136
Strip Mall	577.5	117.2273	6.9279	0.0000	290.4256
Supermarket	364.34	73.9577	4.3708	0.0000	183.2271
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3,020.5279</b>	<b>178.5081</b>	<b>0.0000</b>	<b>7,483.2299</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

## **11.0 Vegetation**

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**APPENDIX E-2**  
**ALTERNATIVE 2 ANNUAL OPERATIONAL EMISSIONS – PROJECT-RELATED VMT**

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Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	766.60	1000sqft	21.36	766,600.00	0
Pharmacy/Drugstore with Drive Thru	32.50	1000sqft	1.20	32,500.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,213.00	0
Parking Lot	468.30	1000sqft	10.75	468,300.00	0
Parking Lot	390.30	1000sqft	8.96	390,300.00	0
Parking Lot	156.80	1000sqft	3.60	156,800.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	93.70	1000sqft	2.15	93,700.00	0
Parking Lot	273.10	1000sqft	6.27	273,100.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.40	1000sqft	0.17	7,400.00	0
Parking Lot	416.00	1000sqft	9.55	416,000.00	0
Parking Lot	343.20	1000sqft	7.88	343,200.00	0
Parking Lot	613.30	1000sqft	14.08	613,300.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0

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Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
City Park	40.60	Acre	40.60	1,768,536.00	0
City Park	38.20	Acre	38.20	1,663,992.00	0
Fast Food Restaurant with Drive Thru	39.00	1000sqft	1.43	39,000.00	0
Apartments Mid Rise	2,050.00	Dwelling Unit	82.00	2,050,000.00	5474
Apartments Mid Rise	100.00	Dwelling Unit	11.82	178,600.00	267
Single Family Housing	3,540.00	Dwelling Unit	507.10	6,372,000.00	9452
Convenience Market (24 Hour)	3.30	1000sqft	0.12	3,300.00	0
Discount Club	195.00	1000sqft	7.16	195,000.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.11	3,000.00	0
Hardware/Paint Store	32.50	1000sqft	1.20	32,500.00	0
Home Improvement Superstore	162.50	1000sqft	5.97	162,500.00	0
Strip Mall	113.80	1000sqft	4.18	113,800.00	0
Strip Mall	173.40	1000sqft	6.37	173,400.00	0
Strip Mall	250.40	1000sqft	0.00	250,400.00	0
Supermarket	65.00	1000sqft	2.40	65,000.00	0

1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	236.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

1.3 User Entered Comments & Non-Default Data

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O are default for SMUD.

Land Use - Land use and acreages per Applicant. Acreage for Multi-use shopping entered as 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Vehicle Trips - Trip frequencies and lengths adjusted to match Traffic Study.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,194,357.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,583,070.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,292.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	5,805,405.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	17,416,215.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00

## Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,150.00
tblFireplaces	NumberGas	0.00	3,540.00
tblFireplaces	NumberNoFireplace	2,150.00	0.00
tblFireplaces	NumberNoFireplace	3,540.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,213.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	17.60	21.36
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.90	1.43
tblLandUse	LotAcreage	2.63	11.82
tblLandUse	LotAcreage	53.95	82.00
tblLandUse	LotAcreage	1,149.35	507.10
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	4.48	7.16
tblLandUse	LotAcreage	0.08	0.11
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	3.73	5.97
tblLandUse	LotAcreage	2.61	4.18
tblLandUse	LotAcreage	3.98	6.37
tblLandUse	LotAcreage	5.75	0.00







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tblVehicleTrips	CW_TL	10.00	6.20
tblVehicleTrips	CW_TL	10.00	6.20
tblVehicleTrips	CW_TL	10.00	6.20
tblVehicleTrips	CW_TL	10.00	6.20
tblVehicleTrips	CW_TL	10.00	6.20
tblVehicleTrips	HO_TL	6.50	4.11
tblVehicleTrips	HO_TL	6.50	4.11
tblVehicleTrips	HS_TL	5.00	3.15
tblVehicleTrips	HS_TL	5.00	3.15
tblVehicleTrips	HW_TL	10.00	6.20
tblVehicleTrips	HW_TL	10.00	6.20
tblVehicleTrips	ST_TR	6.39	4.70
tblVehicleTrips	ST_TR	22.75	17.10
tblVehicleTrips	ST_TR	863.10	645.00
tblVehicleTrips	ST_TR	2.46	1.90
tblVehicleTrips	ST_TR	4.37	3.20
tblVehicleTrips	ST_TR	46.55	34.80
tblVehicleTrips	ST_TR	9.91	7.40
tblVehicleTrips	ST_TR	42.04	31.40
tblVehicleTrips	ST_TR	177.59	132.90
tblVehicleTrips	SU_TR	5.86	4.40
tblVehicleTrips	SU_TR	16.74	12.50
tblVehicleTrips	SU_TR	758.45	567.00
tblVehicleTrips	SU_TR	1.05	0.70
tblVehicleTrips	SU_TR	1.79	1.40
tblVehicleTrips	SU_TR	25.49	19.00
tblVehicleTrips	SU_TR	8.62	6.50

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tblVehicleTrips	SU_TR	20.43	15.30
tblVehicleTrips	SU_TR	166.44	125.00
tblVehicleTrips	WD_TR	6.65	5.00
tblVehicleTrips	WD_TR	1.89	1.40
tblVehicleTrips	WD_TR	737.99	552.00
tblVehicleTrips	WD_TR	15.43	11.60
tblVehicleTrips	WD_TR	11.03	8.20
tblVehicleTrips	WD_TR	12.89	9.60
tblVehicleTrips	WD_TR	56.24	42.00
tblVehicleTrips	WD_TR	9.52	7.40
tblVehicleTrips	WD_TR	44.32	31.40
tblVehicleTrips	WD_TR	102.24	132.90

## 2.0 Emissions Summary

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Energy	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	15,243.7269	15,243.7269	1.0735	0.3324	15,369.6177
Mobile	13.4807	71.3982	102.8728	0.4042	42.1508	0.2324	42.3832	11.2856	0.2156	11.5013	0.0000	37,488.3126	37,488.3126	1.7466	0.0000	37,531.9787
Waste						0.0000	0.0000		0.0000	0.0000	2,082.0255	0.0000	2,082.0255	123.0442	0.0000	5,158.1301
Water						0.0000	0.0000		0.0000	0.0000	217.1821	514.6403	731.8224	0.8105	0.4853	896.7150
<b>Total</b>	<b>65.8428</b>	<b>79.6612</b>	<b>165.2911</b>	<b>0.4551</b>	<b>42.1508</b>	<b>1.1640</b>	<b>43.3149</b>	<b>11.2856</b>	<b>1.1473</b>	<b>12.4329</b>	<b>2,299.2076</b>	<b>54,346.7769</b>	<b>56,645.9845</b>	<b>126.7857</b>	<b>0.8361</b>	<b>60,064.7964</b>

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**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	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Energy	0.6800	5.8929	3.0740	0.0371		0.4698	0.4698		0.4698	0.4698	0.0000	9,511.1817	9,511.1817	0.4695	0.1938	9,580.6787
Mobile	13.4807	71.3982	102.8728	0.4042	42.1508	0.2324	42.3832	11.2856	0.2156	11.5013	0.0000	37,488.3126	37,488.3126	1.7466	0.0000	37,531.9787
Waste						0.0000	0.0000		0.0000	0.0000	2,082.0255	0.0000	2,082.0255	123.0442	0.0000	5,158.1301
Water						0.0000	0.0000		0.0000	0.0000	217.1821	514.6403	731.8224	0.8105	0.4853	896.7150
<b>Total</b>	<b>65.7471</b>	<b>78.8334</b>	<b>164.8665</b>	<b>0.4499</b>	<b>42.1508</b>	<b>1.0980</b>	<b>43.2488</b>	<b>11.2856</b>	<b>1.0812</b>	<b>12.3669</b>	<b>2,299.2076</b>	<b>48,614.2318</b>	<b>50,913.4394</b>	<b>126.1817</b>	<b>0.6976</b>	<b>54,275.8575</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.15</b>	<b>1.04</b>	<b>0.26</b>	<b>1.15</b>	<b>0.00</b>	<b>5.68</b>	<b>0.15</b>	<b>0.00</b>	<b>5.76</b>	<b>0.53</b>	<b>0.00</b>	<b>10.55</b>	<b>10.12</b>	<b>0.48</b>	<b>16.57</b>	<b>9.64</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

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

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

**Acres of Paving: 84.67**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	13.4807	71.3982	102.8728	0.4042	42.1508	0.2324	42.3832	11.2856	0.2156	11.5013	0.0000	37,488.3126	37,488.3126	1.7466	0.0000	37,531.9787
Unmitigated	13.4807	71.3982	102.8728	0.4042	42.1508	0.2324	42.3832	11.2856	0.2156	11.5013	0.0000	37,488.3126	37,488.3126	1.7466	0.0000	37,531.9787



Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	10,250.00	9,635.00	9020.00	16,018,408	16,018,408
Apartments Mid Rise	500.00	470.00	440.00	781,386	781,386
City Park	56.84	694.26	507.50	245,208	245,208
City Park	53.48	653.22	477.50	230,713	230,713
Convenience Market (24 Hour)	1,821.60	2,128.50	1871.10	677,068	677,068
Discount Club	8,151.00	10,481.25	6565.65	6,396,014	6,396,014
Elementary School	2,610.00	0.00	0.00	2,442,618	2,442,618
Fast Food Restaurant with Drive Thru	19,348.68	28,159.17	21166.08	9,223,519	9,223,519
Gasoline/Service Station	8,090.88	8,090.88	8090.88	2,247,481	2,247,481
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,123,740	1,123,740
General Office Building	6,286.12	1,456.54	536.62	6,171,852	6,171,852
Hardware/Paint Store	1,666.93	2,681.90	2231.13	1,366,673	1,366,673
High School	2,400.00	800.00	350.00	3,042,084	3,042,084
Home Improvement Superstore	4,995.25	9,217.00	9067.50	3,475,697	3,475,697
Library	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,149.58	3,149.58	3149.58	1,740,275	1,740,275
Single Family Housing	26,196.00	26,196.00	23010.00	41,288,789	41,288,789



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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
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	6.20	3.15	4.11	7.50	73.50	19.00	38	13	49
Single Family Housing	6.20	3.15	4.11	46.50	12.50	41.00	86	11	3
Strip Mall	6.20	3.15	4.11	16.60	64.40	19.00	45	40	15
Strip Mall	6.20	3.15	4.11	16.60	64.40	19.00	45	40	15
Strip Mall	6.20	3.15	4.11	16.60	64.40	19.00	45	40	15
Supermarket	6.20	3.15	4.11	6.50	74.50	19.00	34	30	36
User Defined Industrial	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,781.5335	2,781.5335	0.3405	0.0705	2,811.0396
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7,567.4871	7,567.4871	0.9264	0.1917	7,647.7619
NaturalGas Mitigated	0.6800	5.8929	3.0740	0.0371		0.4698	0.4698		0.4698	0.4698	0.0000	6,729.6482	6,729.6482	0.1290	0.1234	6,769.6392
NaturalGas Unmitigated	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	7,676.2398	7,676.2398	0.1471	0.1407	7,721.8558

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 Mid Rise	1.99836e+007	0.1078	0.9208	0.3918	5.8800e-003		0.0745	0.0745		0.0745	0.0745	0.0000	1,066.4013	1,066.4013	0.0204	0.0196	1,072.7384
Apartments Mid Rise	974810	5.2600e-003	0.0449	0.0191	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	52.0196	52.0196	1.0000e-003	9.5000e-004	52.3287
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	17886	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9545	0.9545	2.0000e-005	2.0000e-005	0.9601
Discount Club	1.0569e+006	5.7000e-003	0.0518	0.0435	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4002	56.4002	1.0800e-003	1.0300e-003	56.7354



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Total		0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	7,676.2398	7,676.2398	0.1471	0.1407	7,721.8558
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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	871718	4.7000e-003	0.0402	0.0171	2.6000e-004		3.2500e-003	3.2500e-003		3.2500e-003	3.2500e-003	0.0000	46.5182	46.5182	8.9000e-004	8.5000e-004	46.7946
Apartments Mid Rise	1.78702e+007	0.0964	0.8234	0.3504	5.2600e-003		0.0666	0.0666		0.0666	0.0666	0.0000	953.6229	953.6229	0.0183	0.0175	959.2898
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	15722.7	8.0000e-005	7.7000e-004	6.5000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8390	0.8390	2.0000e-005	2.0000e-005	0.8440
Discount Club	929070	5.0100e-003	0.0455	0.0383	2.7000e-004		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	49.5787	49.5787	9.5000e-004	9.1000e-004	49.8733
Elementary School	2.95389e+006	0.0159	0.1448	0.1216	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.6308	157.6308	3.0200e-003	2.8900e-003	158.5675
Fast Food Restaurant with Drive Thru	6.5906e+006	0.0355	0.3231	0.2714	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	351.6993	351.6993	6.7400e-003	6.4500e-003	353.7893
Gasoline/Service Station	210568	1.1400e-003	0.0103	8.6700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.2367	11.2367	2.2000e-004	2.1000e-004	11.3035
Gasoline/Service Station	97185.2	5.2000e-004	4.7600e-003	4.0000e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1862	5.1862	1.0000e-004	1.0000e-004	5.2170
General Office Building	8.65237e+006	0.0467	0.4241	0.3563	2.5400e-003		0.0322	0.0322		0.0322	0.0322	0.0000	461.7234	461.7234	8.8500e-003	8.4600e-003	464.4672
Hardware/Paint Store	154845	8.3000e-004	7.5900e-003	6.3800e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2631	8.2631	1.6000e-004	1.5000e-004	8.3122
High School	3.2821e+006	0.0177	0.1609	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	175.1454	175.1454	3.3600e-003	3.2100e-003	176.1862
Home Improvement Superstore	774225	4.1700e-003	0.0380	0.0319	2.3000e-004		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	41.3156	41.3156	7.9000e-004	7.6000e-004	41.5611

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	154845	8.3000e-004	7.5900e-003	6.3800e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2631	8.2631	1.6000e-004	1.5000e-004	8.3122
Single Family Housing	7.94912e+007	0.4286	3.6628	1.5587	0.0234		0.2961	0.2961		0.2961	0.2961	0.0000	4,241.9505	4,241.9505	0.0813	0.0778	4,267.1583
Strip Mall	1.19302e+006	6.4300e-003	0.0585	0.0491	3.5000e-004		4.4400e-003	4.4400e-003		4.4400e-003	4.4400e-003	0.0000	63.6641	63.6641	1.2200e-003	1.1700e-003	64.0425
Strip Mall	542196	2.9200e-003	0.0266	0.0223	1.6000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	28.9336	28.9336	5.5000e-004	5.3000e-004	29.1056
Strip Mall	826157	4.4500e-003	0.0405	0.0340	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	44.0869	44.0869	8.4000e-004	8.1000e-004	44.3489
Supermarket	1.49897e+006	8.0800e-003	0.0735	0.0617	4.4000e-004		5.5800e-003	5.5800e-003		5.5800e-003	5.5800e-003	0.0000	79.9908	79.9908	1.5300e-003	1.4700e-003	80.4661
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.6800</b>	<b>5.8929</b>	<b>3.0740</b>	<b>0.0371</b>		<b>0.4698</b>	<b>0.4698</b>		<b>0.4698</b>	<b>0.4698</b>	<b>0.0000</b>	<b>6,729.6482</b>	<b>6,729.6482</b>	<b>0.1290</b>	<b>0.1234</b>	<b>6,769.6392</b>

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	425646	45.7382	5.6000e-003	1.1600e-003	46.2234
Apartments Mid Rise	8.72574e+006	937.6337	0.1148	0.0238	947.5800



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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	38181	4.1028	5.0000e-004	1.0000e-004	4.1463
Discount Club	2.25615e+006	242.4369	0.0297	6.1400e-003	245.0087
Elementary School	1.647e+006	176.9801	0.0217	4.4800e-003	178.8575
Fast Food Restaurant with Drive Thru	1.62669e+006	174.7977	0.0214	4.4300e-003	176.6519
Gasoline/Service Station	45540	4.8936	6.0000e-004	1.2000e-004	4.9455
Gasoline/Service Station	98670	10.6027	1.3000e-003	2.7000e-004	10.7152
General Office Building	1.10697e+007	1,189.5065	0.1456	0.0301	1,202.1246
Hardware/Paint Store	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
High School	1.83e+006	196.6445	0.0241	4.9800e-003	198.7305
Home Improvement Superstore	1.88013e+006	202.0308	0.0247	5.1200e-003	204.1739
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	120120	12.9076	1.5800e-003	3.3000e-004	13.0445
Parking Lot	136605	14.6790	1.8000e-003	3.7000e-004	14.8347
Parking Lot	145600	15.6456	1.9200e-003	4.0000e-004	15.8116
Parking Lot	163905	17.6126	2.1600e-003	4.5000e-004	17.7994

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	213430	22.9343	2.8100e-003	5.8000e-004	23.1776
Parking Lot	214655	23.0660	2.8200e-003	5.8000e-004	23.3107
Parking Lot	2590	0.2783	3.0000e-005	1.0000e-005	0.2813
Parking Lot	2730	0.2934	4.0000e-005	1.0000e-005	0.2965
Parking Lot	27300	5.8671	7.2000e-004	1.5000e-004	5.9293
Parking Lot	32795	3.5240	4.3000e-004	9.0000e-005	3.5614
Parking Lot	47880	5.1450	6.3000e-004	1.3000e-004	5.1996
Parking Lot	54880	5.8972	7.2000e-004	1.5000e-004	5.9597
Parking Lot	5495	0.5905	7.0000e-005	1.0000e-005	0.5967
Parking Lot	95585	10.2712	1.2600e-003	2.6000e-004	10.3801
Pharmacy/Drugstore with Drive Thru	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
Single Family Housing	2.9891e+007	3,211.9663	0.3932	0.0814	3,246.0383
Strip Mall	1.31667e+006	141.4837	0.0173	3.5800e-003	142.9845
Strip Mall	2.00624e+006	215.5824	0.0264	5.4600e-003	217.8692
Strip Mall	2.89713e+006	311.3139	0.0381	7.8800e-003	314.6163
Supermarket	2.62665e+006	282.2494	0.0346	7.1500e-003	285.2435
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000

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<b>Total</b>		<b>7,567.487 1</b>	<b>0.9264</b>	<b>0.1917</b>	<b>7,647.761 9</b>
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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	157932	16.9707	2.0800e-003	4.3000e-004	17.1507
Apartments Mid Rise	3.2376e+006	347.8993	0.0426	8.8100e-003	351.5898
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	13802.1	1.4831	1.8000e-004	4.0000e-005	1.4989
Discount Club	815578	87.6388	0.0107	2.2200e-003	88.5685
Elementary School	595531	63.9934	7.8300e-003	1.6200e-003	64.6722
Fast Food Restaurant with Drive Thru	594372	63.8688	7.8200e-003	1.6200e-003	64.5463
Gasoline/Service Station	16605.5	1.7844	2.2000e-004	5.0000e-005	1.8033
Gasoline/Service Station	35978.6	3.8661	4.7000e-004	1.0000e-004	3.9071
General Office Building	3.96315e+006	425.8640	0.0521	0.0108	430.3815
Hardware/Paint Store	135930	14.6065	1.7900e-003	3.7000e-004	14.7614
High School	661701	71.1038	8.7000e-003	1.8000e-003	71.8580
Home Improvement Superstore	679649	73.0323	8.9400e-003	1.8500e-003	73.8071

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1029.21	0.1106	1.0000e-005	0.0000	0.1118
Parking Lot	10292.1	2.2119	2.7000e-004	6.0000e-005	2.2354
Parking Lot	12363.7	1.3286	1.6000e-004	3.0000e-005	1.3427
Parking Lot	18050.8	1.9397	2.4000e-004	5.0000e-005	1.9602
Parking Lot	20689.8	2.2232	2.7000e-004	6.0000e-005	2.2468
Parking Lot	2071.61	0.2226	3.0000e-005	1.0000e-005	0.2250
Parking Lot	36035.5	3.8722	4.7000e-004	1.0000e-004	3.9133
Parking Lot	45285.2	4.8662	6.0000e-004	1.2000e-004	4.9178
Parking Lot	51500.1	5.5340	6.8000e-004	1.4000e-004	5.5927
Parking Lot	54891.2	5.8984	7.2000e-004	1.5000e-004	5.9610
Parking Lot	61792.2	6.6399	8.1000e-004	1.7000e-004	6.7104
Parking Lot	80463.1	8.6463	1.0600e-003	2.2000e-004	8.7380
Parking Lot	80924.9	8.6959	1.0600e-003	2.2000e-004	8.7881
Parking Lot	976.43	0.1049	1.0000e-005	0.0000	0.1060
Pharmacy/Drugstore with Drive Thru	135930	14.6065	1.7900e-003	3.7000e-004	14.7614
Single Family Housing	1.11366e+007	1,196.6952	0.1465	0.0303	1,209.3896

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	1.04729e+006	112.5372	0.0138	2.8500e-003	113.7310
Strip Mall	475963	51.1451	6.2600e-003	1.3000e-003	51.6877
Strip Mall	725237	77.9311	9.5400e-003	1.9700e-003	78.7578
Supermarket	969818	104.2128	0.0128	2.6400e-003	105.3183
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,781.5335</b>	<b>0.3405</b>	<b>0.0705</b>	<b>2,811.0396</b>

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Unmitigated	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.5401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.1895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1015	0.8670	0.3689	5.5300e-003		0.0701	0.0701		0.0701	0.0701	0.0000	1,004.0934	1,004.0934	0.0193	0.0184	1,010.0602
Landscaping	1.7555	0.6753	58.5508	3.1000e-003		0.3257	0.3257		0.3257	0.3257	0.0000	96.0038	96.0038	0.0916	0.0000	98.2947
<b>Total</b>	<b>51.5864</b>	<b>1.5423</b>	<b>58.9197</b>	<b>8.6300e-003</b>		<b>0.3958</b>	<b>0.3958</b>		<b>0.3958</b>	<b>0.3958</b>	<b>0.0000</b>	<b>1,100.0972</b>	<b>1,100.0972</b>	<b>0.1109</b>	<b>0.0184</b>	<b>1,108.3550</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.5401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.1895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1015	0.8670	0.3689	5.5300e-003		0.0701	0.0701		0.0701	0.0701	0.0000	1,004.0934	1,004.0934	0.0193	0.0184	1,010.0602
Landscaping	1.7555	0.6753	58.5508	3.1000e-003		0.3257	0.3257		0.3257	0.3257	0.0000	96.0038	96.0038	0.0916	0.0000	98.2947
<b>Total</b>	<b>51.5864</b>	<b>1.5423</b>	<b>58.9197</b>	<b>8.6300e-003</b>		<b>0.3958</b>	<b>0.3958</b>		<b>0.3958</b>	<b>0.3958</b>	<b>0.0000</b>	<b>1,100.0972</b>	<b>1,100.0972</b>	<b>0.1109</b>	<b>0.0184</b>	<b>1,108.3550</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	731.8224	0.8105	0.4853	896.7150
Unmitigated	731.8224	0.8105	0.4853	896.7150

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	140.081 / 88.312	157.7757	0.1838	0.1105	195.3063
City Park	0 / 93.8887	35.3112	4.3200e-003	8.9000e-004	35.6858
Convenience Market (24 Hour)	0.244439 / 0.149818	0.2737	3.2000e-004	1.9000e-004	0.3392
Discount Club	14.4441 / 8.85286	16.1734	0.0189	0.0114	20.0423
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.8378 / 0.755605	10.8105	0.0152	9.2800e-003	13.9553



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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	136.251 / 83.5085	152.5630	0.1787	0.1075	189.0578
Hardware/Paint Store	2.40736 / 1.47548	2.6956	3.1600e-003	1.9000e-003	3.3404
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	12.0368 / 7.37738	13.4779	0.0158	9.4900e-003	16.7019
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.28954 / 1.40327	2.5637	3.0000e-003	1.8100e-003	3.1769
Single Family Housing	230.645 / 145.407	259.7795	0.3027	0.1820	321.5740
Strip Mall	39.8214 / 24.4067	44.5889	0.0522	0.0314	55.2551
Supermarket	8.01243 / 0.247807	7.2180	0.0103	6.2800e-003	9.3455
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>731.8224</b>	<b>0.8105</b>	<b>0.4853</b>	<b>896.7150</b>

**7.2 Water by Land Use****Mitigated**

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	140.081 / 88.312	157.7757	0.1838	0.1105	195.3063
City Park	0 / 93.8887	35.3112	4.3200e-003	8.9000e-004	35.6858
Convenience Market (24 Hour)	0.244439 / 0.149818	0.2737	3.2000e-004	1.9000e-004	0.3392
Discount Club	14.4441 / 8.85286	16.1734	0.0189	0.0114	20.0423
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.8378 / 0.755605	10.8105	0.0152	9.2800e-003	13.9553
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	136.251 / 83.5085	152.5630	0.1787	0.1075	189.0578
Hardware/Paint Store	2.40736 / 1.47548	2.6956	3.1600e-003	1.9000e-003	3.3404
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	12.0368 / 7.37738	13.4779	0.0158	9.4900e-003	16.7019
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.28954 / 1.40327	2.5637	3.0000e-003	1.8100e-003	3.1769
Single Family Housing	230.645 / 145.407	259.7795	0.3027	0.1820	321.5740
Strip Mall	39.8214 / 24.4067	44.5889	0.0522	0.0314	55.2551
Supermarket	8.01243 / 0.247807	7.2180	0.0103	6.2800e-003	9.3455

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>731.8224</b>	<b>0.8105</b>	<b>0.4853</b>	<b>896.7150</b>

### 8.0 Waste Detail

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#### 8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,082.0255	123.0442	0.0000	5,158.1301
Unmitigated	2,082.0255	123.0442	0.0000	5,158.1301

#### 8.2 Waste by Land Use

Unmitigated

## Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	989	200.7581	11.8645	0.0000	497.3696
City Park	6.78	1.3763	0.0813	0.0000	3.4097
Convenience Market (24 Hour)	9.92	2.0137	0.1190	0.0000	4.9888
Discount Club	838.64	170.2363	10.0607	0.0000	421.7533
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	449.24	91.1917	5.3893	0.0000	225.9235
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	712.94	144.7204	8.5527	0.0000	358.5386
Hardware/Paint Store	360.4	73.1579	4.3235	0.0000	181.2457
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1801.99	365.7877	21.6174	0.0000	906.2235
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.73	19.8383	1.1724	0.0000	49.1486
Single Family Housing	3402.72	690.7214	40.8205	0.0000	1,711.2331
Strip Mall	564.48	114.5843	6.7717	0.0000	283.8779
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,082.0255</b>	<b>123.0442</b>	<b>0.0000</b>	<b>5,158.1301</b>

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	989	200.7581	11.8645	0.0000	497.3696
City Park	6.78	1.3763	0.0813	0.0000	3.4097
Convenience Market (24 Hour)	9.92	2.0137	0.1190	0.0000	4.9888
Discount Club	838.64	170.2363	10.0607	0.0000	421.7533
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	449.24	91.1917	5.3893	0.0000	225.9235
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	712.94	144.7204	8.5527	0.0000	358.5386
Hardware/Paint Store	360.4	73.1579	4.3235	0.0000	181.2457
High School	325	65.9721	3.8988	0.0000	163.4430

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Home Improvement Superstore	1801.99	365.7877	21.6174	0.0000	906.2235
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.73	19.8383	1.1724	0.0000	49.1486
Single Family Housing	3402.72	690.7214	40.8205	0.0000	1,711.2331
Strip Mall	564.48	114.5843	6.7717	0.0000	283.8779
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,082.0255</b>	<b>123.0442</b>	<b>0.0000</b>	<b>5,158.1301</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX E-3**  
**ORIGINAL PROJECT ANNUAL OPERATIONAL EMISSIONS – CUMULATIVE VMT**

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## Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Annual**

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	298.40	1000sqft	8.22	298,400.00	0
Hospital	433.40	1000sqft	11.94	433,400.00	0
Office Park	0.00	1000sqft	0.00	0.00	0
Pharmacy/Drugstore with Drive Thru	32.30	1000sqft	1.20	32,300.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,123.00	0
Parking Lot	465.20	1000sqft	10.68	465,200.00	0
Parking Lot	386.80	1000sqft	8.88	386,800.00	0
Parking Lot	154.20	1000sqft	3.54	154,200.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	94.10	1000sqft	2.16	94,100.00	0
Parking Lot	271.80	1000sqft	6.24	271,800.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	452.00	1000sqft	10.38	452,000.00	0
Parking Lot	341.50	1000sqft	7.84	341,500.00	0

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Parking Lot	173.40	1000sqft	3.98	173,400.00	0
Parking Lot	238.70	1000sqft	5.48	238,700.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Unenclosed Parking with Elevator	173.40	1000sqft	3.98	173,400.00	0
Unenclosed Parking with Elevator	0.00	1000sqft	0.00	0.00	0
City Park	39.20	Acre	39.20	1,707,552.00	0
City Park	39.10	Acre	39.10	1,703,196.00	0
Fast Food Restaurant with Drive Thru	38.70	1000sqft	1.44	38,700.00	0
Apartments Mid Rise	2,137.00	Dwelling Unit	85.00	2,137,000.00	5706
Apartments Mid Rise	100.00	Dwelling Unit	11.76	178,600.00	267
Single Family Housing	2,134.00	Dwelling Unit	355.70	3,841,200.00	5698
Single Family Housing	1,772.00	Dwelling Unit	136.30	3,189,600.00	4731
Convenience Market (24 Hour)	3.20	1000sqft	0.12	3,200.00	0
Discount Club	193.70	1000sqft	7.12	193,700.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.12	3,000.00	0
Hardware/Paint Store	32.30	1000sqft	1.20	32,300.00	0
Home Improvement Superstore	161.40	1000sqft	5.92	161,400.00	0
Strip Mall	113.00	1000sqft	4.16	113,000.00	0
Strip Mall	188.60	1000sqft	6.92	188,600.00	0
Strip Mall	248.40	1000sqft	0.00	248,400.00	0
Supermarket	64.60	1000sqft	2.36	64,600.00	0

1.2 Other Project Characteristics

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	236.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O intensity SMUD default.

Land Use - Non-default from Project Description. Mixed Use Retail lot acreage set to 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Vehicle Trips - Trip frequencies and lengths adjusted to match Traffic Study.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,181,312.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,543,935.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,148.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	6,308,820.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	18,926,460.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00

## Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,237.00
tblFireplaces	NumberGas	0.00	3,906.00
tblFireplaces	NumberNoFireplace	2,237.00	0.00
tblFireplaces	NumberNoFireplace	3,906.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,123.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	6.85	8.22
tblLandUse	LotAcreage	9.95	11.94
tblLandUse	LotAcreage	0.74	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.89	1.44
tblLandUse	LotAcreage	56.24	85.00
tblLandUse	LotAcreage	2.63	11.76
tblLandUse	LotAcreage	692.86	355.70
tblLandUse	LotAcreage	575.32	136.30





## Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

tblVehicleTrips	CNW_TL	6.50	3.83
tblVehicleTrips	CNW_TL	6.50	3.83
tblVehicleTrips	CNW_TL	6.50	3.83
tblVehicleTrips	CNW_TL	6.50	3.83
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
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tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	HO_TL	6.50	3.83
tblVehicleTrips	HO_TL	6.50	3.83
tblVehicleTrips	HS_TL	5.00	2.80
tblVehicleTrips	HS_TL	5.00	2.80

## Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

tblVehicleTrips	HW_TL	10.00	5.70
tblVehicleTrips	HW_TL	10.00	5.70
tblVehicleTrips	ST_TR	6.39	4.30
tblVehicleTrips	ST_TR	22.75	15.40
tblVehicleTrips	ST_TR	863.10	583.00
tblVehicleTrips	ST_TR	2.46	1.70
tblVehicleTrips	ST_TR	4.37	2.90
tblVehicleTrips	ST_TR	46.55	31.40
tblVehicleTrips	ST_TR	1.64	1.10
tblVehicleTrips	ST_TR	9.91	6.70
tblVehicleTrips	ST_TR	42.04	28.40
tblVehicleTrips	ST_TR	177.59	120.00
tblVehicleTrips	SU_TR	5.86	3.90
tblVehicleTrips	SU_TR	16.74	11.30
tblVehicleTrips	SU_TR	758.45	512.50
tblVehicleTrips	SU_TR	1.05	0.70
tblVehicleTrips	SU_TR	1.79	1.20
tblVehicleTrips	SU_TR	25.49	17.20
tblVehicleTrips	SU_TR	0.76	0.50
tblVehicleTrips	SU_TR	8.62	5.90
tblVehicleTrips	SU_TR	20.43	13.90
tblVehicleTrips	SU_TR	166.44	112.50
tblVehicleTrips	WD_TR	6.65	4.50
tblVehicleTrips	WD_TR	1.89	1.20
tblVehicleTrips	WD_TR	737.99	499.00
tblVehicleTrips	WD_TR	15.43	10.50
tblVehicleTrips	WD_TR	11.03	7.40



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tblVehicleTrips	WD_TR	12.89	8.70
tblVehicleTrips	WD_TR	56.24	38.00
tblVehicleTrips	WD_TR	11.42	7.40
tblVehicleTrips	WD_TR	9.52	6.40
tblVehicleTrips	WD_TR	44.32	30.00
tblVehicleTrips	WD_TR	102.24	69.00

**2.0 Emissions Summary**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638
Energy	0.9559	8.3287	4.6525	0.0521		0.6604	0.6604		0.6604	0.6604	0.0000	17,657.6676	17,657.6676	1.1849	0.3811	17,800.8446
Mobile	12.8743	68.2546	95.6510	0.3699	38.1143	0.2149	38.3292	10.2049	0.1994	10.4043	0.0000	34,317.7024	34,317.7024	1.6321	0.0000	34,358.5039
Waste						0.0000	0.0000		0.0000	0.0000	3,020.5279	0.0000	3,020.5279	178.5081	0.0000	7,483.2299
Water						0.0000	0.0000		0.0000	0.0000	217.6233	506.9556	724.5790	0.8111	0.4861	889.7139
<b>Total</b>	<b>68.8783</b>	<b>78.6710</b>	<b>164.0873</b>	<b>0.4341</b>	<b>38.1143</b>	<b>1.3368</b>	<b>39.4511</b>	<b>10.2049</b>	<b>1.3213</b>	<b>11.5262</b>	<b>3,238.1512</b>	<b>54,159.4663</b>	<b>57,397.6175</b>	<b>182.2652</b>	<b>0.8960</b>	<b>62,221.2561</b>

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638
Energy	0.8306	7.2383	4.0509	0.0453		0.5739	0.5739		0.5739	0.5739	0.0000	11,198.5814	11,198.5814	0.5222	0.2261	11,279.0252
Mobile	12.8743	68.2546	95.6510	0.3699	38.1143	0.2149	38.3292	10.2049	0.1994	10.4043	0.0000	34,317.7024	34,317.7024	1.6321	0.0000	34,358.5039
Waste						0.0000	0.0000		0.0000	0.0000	3,020.5279	0.0000	3,020.5279	178.5081	0.0000	7,483.2299
Water						0.0000	0.0000		0.0000	0.0000	217.6233	506.9556	724.5790	0.8111	0.4861	889.7139
<b>Total</b>	<b>68.7530</b>	<b>77.5806</b>	<b>163.4857</b>	<b>0.4273</b>	<b>38.1143</b>	<b>1.2502</b>	<b>39.3645</b>	<b>10.2049</b>	<b>1.2347</b>	<b>11.4396</b>	<b>3,238.1512</b>	<b>47,700.3801</b>	<b>50,938.5313</b>	<b>181.6025</b>	<b>0.7411</b>	<b>55,699.4367</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.18</b>	<b>1.39</b>	<b>0.37</b>	<b>1.58</b>	<b>0.00</b>	<b>6.47</b>	<b>0.22</b>	<b>0.00</b>	<b>6.55</b>	<b>0.75</b>	<b>0.00</b>	<b>11.93</b>	<b>11.25</b>	<b>0.36</b>	<b>17.29</b>	<b>10.48</b>

**3.0 Construction Detail**

**Construction Phase**

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

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

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

**Acres of Paving: 84.62**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	12.8743	68.2546	95.6510	0.3699	38.1143	0.2149	38.3292	10.2049	0.1994	10.4043	0.0000	34,317.70 24	34,317.70 24	1.6321	0.0000	34,358.50 39
Unmitigated	12.8743	68.2546	95.6510	0.3699	38.1143	0.2149	38.3292	10.2049	0.1994	10.4043	0.0000	34,317.70 24	34,317.70 24	1.6321	0.0000	34,358.50 39



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Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,130.19	3,130.19	3130.19	1,566,029	1,566,029
Single Family Housing	13,657.60	14,297.80	12590.60	20,091,588	20,091,588
Single Family Housing	11,340.80	11,872.40	10454.80	16,683,361	16,683,361
Strip Mall	3,390.00	3,209.20	1570.70	2,177,881	2,177,881
Strip Mall	5,658.00	5,356.24	2621.54	3,634,940	3,634,940
Strip Mall	7,452.00	7,054.56	3452.76	4,787,483	4,787,483
Supermarket	4,457.40	7,752.00	7267.50	2,633,355	2,633,355
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>119,369.39</b>	<b>133,317.47</b>	<b>107,592.64</b>	<b>102,413,756</b>	<b>102,413,756</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	5.70	2.80	3.83	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	5.70	2.80	3.83	46.50	12.50	41.00	86	11	3
City Park	5.70	2.80	3.83	33.00	48.00	19.00	66	28	6
City Park	5.70	2.80	3.83	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	5.70	2.80	3.83	0.90	80.10	19.00	24	15	61
Discount Club	5.70	2.80	3.83	16.70	64.30	19.00	45	40	15
Elementary School	5.70	2.80	3.83	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	5.70	2.80	3.83	2.20	78.80	19.00	29	21	50
Gasoline/Service Station	5.70	2.80	3.83	2.00	79.00	19.00	14	27	59
Gasoline/Service Station	5.70	2.80	3.83	2.00	79.00	19.00	14	27	59
General Office Building	5.70	2.80	3.83	33.00	48.00	19.00	77	19	4
Hardware/Paint Store	5.70	2.80	3.83	13.60	67.40	19.00	45	29	26
High School	5.70	2.80	3.83	77.80	17.20	5.00	75	19	6
Home Improvement Superstore	5.70	2.80	3.83	23.40	57.60	19.00	32	20	48
Hospital	5.70	2.80	3.83	64.90	16.10	19.00	73	25	2



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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
Library	5.70	2.80	3.83	52.00	43.00	5.00	44	44	12
Office Park	5.70	2.80	3.83	33.00	48.00	19.00	82	15	3
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	5.70	2.80	3.83	7.50	73.50	19.00	38	13	49
Single Family Housing	5.70	2.80	3.83	46.50	12.50	41.00	86	11	3
Single Family Housing	5.70	2.80	3.83	46.50	12.50	41.00	86	11	3
Strip Mall	5.70	2.80	3.83	16.60	64.40	19.00	45	40	15
Strip Mall	5.70	2.80	3.83	16.60	64.40	19.00	45	40	15
Strip Mall	5.70	2.80	3.83	16.60	64.40	19.00	45	40	15
Supermarket	5.70	2.80	3.83	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
User Defined Industrial	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hospital	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Office Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Unenclosed Parking with Elevator	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,978.6014	2,978.6014	0.3646	0.0754	3,010.1979
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	8,197.9374	8,197.9374	1.0036	0.2076	8,284.8999
Natural Gas Mitigated	0.8306	7.2383	4.0509	0.0453		0.5739	0.5739		0.5739	0.5739	0.0000	8,219.9800	8,219.9800	0.1576	0.1507	8,268.8273
Natural Gas Unmitigated	0.9559	8.3287	4.6525	0.0521		0.6604	0.6604		0.6604	0.6604	0.0000	9,459.7302	9,459.7302	0.1813	0.1734	9,515.9447

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

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.08317e+007	0.1123	0.9599	0.4085	6.1300e-003		0.0776	0.0776		0.0776	0.0776	0.0000	1,111.6583	1,111.6583	0.0213	0.0204	1,118.2643
Apartments Mid Rise	974810	5.2600e-003	0.0449	0.0191	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	52.0196	52.0196	1.0000e-003	9.5000e-004	52.3287

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	17344	9.0000e-005	8.5000e-004	7.1000e-004	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.9255	0.9255	2.0000e-005	2.0000e-005	0.9310
Discount Club	1.04985e+006	5.6600e-003	0.0515	0.0432	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	56.0242	56.0242	1.0700e-003	1.0300e-003	56.3571
Elementary School	3.4335e+006	0.0185	0.1683	0.1414	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.2246	183.2246	3.5100e-003	3.3600e-003	184.3135
Fast Food Restaurant with Drive Thru	6.87699e+006	0.0371	0.3371	0.2832	2.0200e-003		0.0256	0.0256		0.0256	0.0256	0.0000	366.9824	366.9824	7.0300e-003	6.7300e-003	369.1632
Gasoline/Service Station	107430	5.8000e-004	5.2700e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	5.7329	5.7329	1.1000e-004	1.1000e-004	5.7669
Gasoline/Service Station	232765	1.2600e-003	0.0114	9.5800e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4212	12.4212	2.4000e-004	2.3000e-004	12.4950
General Office Building	3.90904e+006	0.0211	0.1916	0.1610	1.1500e-003		0.0146	0.0146		0.0146	0.0146	0.0000	208.6013	208.6013	4.0000e-003	3.8200e-003	209.8409
Hardware/Paint Store	175066	9.4000e-004	8.5800e-003	7.2100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3422	9.3422	1.8000e-004	1.7000e-004	9.3977
High School	3.815e+006	0.0206	0.1870	0.1571	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	203.5829	203.5829	3.9000e-003	3.7300e-003	204.7927
Home Improvement Superstore	874788	4.7200e-003	0.0429	0.0360	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	46.6820	46.6820	8.9000e-004	8.6000e-004	46.9594
Hospital	2.92632e+007	0.1578	1.4345	1.2050	8.6100e-003		0.1090	0.1090		0.1090	0.1090	0.0000	1,561.5941	1,561.5941	0.0299	0.0286	1,570.8739
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	175066	9.4000e-004	8.5800e-003	7.2100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3422	9.3422	1.8000e-004	1.7000e-004	9.3977
Single Family Housing	4.57791e+007	0.2469	2.1094	0.8976	0.0135		0.1706	0.1706		0.1706	0.1706	0.0000	2,442.9456	2,442.9456	0.0468	0.0448	2,457.4628

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	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					
Single Family Housing	5.51312e+007	0.2973	2.5404	1.0810	0.0162		0.2054	0.2054		0.2054	0.2054	0.0000	2,942.0123	2,942.0123	0.0564	0.0539	2,959.4952
Strip Mall	1.02221e+006	5.5100e-003	0.0501	0.0421	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.5491	54.5491	1.0500e-003	1.0000e-003	54.8733
Strip Mall	1.34633e+006	7.2600e-003	0.0660	0.0554	4.0000e-004		5.0200e-003	5.0200e-003		5.0200e-003	5.0200e-003	0.0000	71.8452	71.8452	1.3800e-003	1.3200e-003	72.2721
Strip Mall	612460	3.3000e-003	0.0300	0.0252	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6832	32.6832	6.3000e-004	6.0000e-004	32.8774
Supermarket	1.64084e+006	8.8500e-003	0.0804	0.0676	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.5615	87.5615	1.6800e-003	1.6100e-003	88.0818
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.9559</b>	<b>8.3287</b>	<b>4.6524</b>	<b>0.0522</b>		<b>0.6604</b>	<b>0.6604</b>		<b>0.6604</b>	<b>0.6604</b>	<b>0.0000</b>	<b>9,459.7303</b>	<b>9,459.7303</b>	<b>0.1813</b>	<b>0.1735</b>	<b>9,515.9447</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	865363	4.6700e-003	0.0399	0.0170	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.1791	46.1791	8.9000e-004	8.5000e-004	46.4535
Apartments Mid Rise	1.84928e+007	0.0997	0.8521	0.3626	5.4400e-003		0.0689	0.0689		0.0689	0.0689	0.0000	986.8466	986.8466	0.0189	0.0181	992.7109
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	15117	8.0000e-005	7.4000e-004	6.2000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8067	0.8067	2.0000e-005	1.0000e-005	0.8115

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Discount Club	915048	4.9300e-003	0.0449	0.0377	2.7000e-004		3.4100e-003	3.4100e-003		3.4100e-003	3.4100e-003	0.0000	48.8305	48.8305	9.4000e-004	9.0000e-004	49.1207
Elementary School	2.92433e+006	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	156.0531	156.0531	2.9900e-003	2.8600e-003	156.9805
Fast Food Restaurant with Drive Thru	6.51912e+006	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8850	347.8850	6.6700e-003	6.3800e-003	349.9524
Gasoline/Service Station	209200	1.1300e-003	0.0103	8.6100e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.1637	11.1637	2.1000e-004	2.0000e-004	11.2300
Gasoline/Service Station	96553.7	5.2000e-004	4.7300e-003	3.9800e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1525	5.1525	1.0000e-004	9.0000e-005	5.1831
General Office Building	3.33459e+006	0.0180	0.1635	0.1373	9.8000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	177.9464	177.9464	3.4100e-003	3.2600e-003	179.0039
Hardware/Paint Store	152587	8.2000e-004	7.4800e-003	6.2800e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	8.1426	8.1426	1.6000e-004	1.5000e-004	8.1910
High School	3.24925e+006	0.0175	0.1593	0.1338	9.6000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	173.3924	173.3924	3.3200e-003	3.1800e-003	174.4227
Home Improvement Superstore	762462	4.1100e-003	0.0374	0.0314	2.2000e-004		2.8400e-003	2.8400e-003		2.8400e-003	2.8400e-003	0.0000	40.6879	40.6879	7.8000e-004	7.5000e-004	40.9297
Hospital	2.53729e+007	0.1368	1.2438	1.0448	7.4600e-003		0.0945	0.0945		0.0945	0.0945	0.0000	1,353.9971	1,353.9971	0.0260	0.0248	1,362.0433
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	152587	8.2000e-004	7.4800e-003	6.2800e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	8.1426	8.1426	1.6000e-004	1.5000e-004	8.1910
Single Family Housing	3.94213e+007	0.2126	1.8165	0.7730	0.0116		0.1469	0.1469		0.1469	0.1469	0.0000	2,103.6721	2,103.6721	0.0403	0.0386	2,116.1732
Single Family Housing	4.74747e+007	0.2560	2.1876	0.9309	0.0140		0.1769	0.1769		0.1769	0.1769	0.0000	2,533.4290	2,533.4290	0.0486	0.0465	2,548.4839
Strip Mall	1.17345e+006	6.3300e-003	0.0575	0.0483	3.5000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003	0.0000	62.6200	62.6200	1.2000e-003	1.1500e-003	62.9921

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Strip Mall	533818	2.8800e-003	0.0262	0.0220	1.6000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	28.4865	28.4865	5.5000e-004	5.2000e-004	28.6558
Strip Mall	890956	4.8000e-003	0.0437	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003	0.0000	47.5448	47.5448	9.1000e-004	8.7000e-004	47.8273
Supermarket	1.48043e+006	7.9800e-003	0.0726	0.0610	4.4000e-004		5.5200e-003	5.5200e-003		5.5200e-003	5.5200e-003	0.0000	79.0015	79.0015	1.5100e-003	1.4500e-003	79.4709
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.8306</b>	<b>7.2383</b>	<b>4.0509</b>	<b>0.0453</b>		<b>0.5739</b>	<b>0.5739</b>		<b>0.5739</b>	<b>0.5739</b>	<b>0.0000</b>	<b>8,219.9800</b>	<b>8,219.9800</b>	<b>0.1576</b>	<b>0.1507</b>	<b>8,268.8273</b>

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	425646	45.7382	5.6000e-003	1.1600e-003	46.2234
Apartments Mid Rise	9.09606e+006	977.4260	0.1197	0.0248	987.7944
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	37024	3.9785	4.9000e-004	1.0000e-004	4.0207
Discount Club	2.24111e+006	240.8207	0.0295	6.1000e-003	243.3753
Elementary School	1.647e+006	176.9801	0.0217	4.4800e-003	178.8575

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	1.61418e+006	173.4531	0.0212	4.3900e-003	175.2930
Gasoline/Service Station	45540	4.8936	6.0000e-004	1.2000e-004	4.9455
Gasoline/Service Station	98670	10.6027	1.3000e-003	2.7000e-004	10.7152
General Office Building	4.3089e+006	463.0169	0.0567	0.0117	467.9285
Hardware/Paint Store	373711	40.1575	4.9200e-003	1.0200e-003	40.5835
High School	1.83e+006	196.6445	0.0241	4.9800e-003	198.7305
Home Improvement Superstore	1.8674e+006	200.6632	0.0246	5.0800e-003	202.7918
Hospital	8.81102e+006	946.7975	0.1159	0.0240	956.8410
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	119525	12.8437	1.5700e-003	3.3000e-004	12.9799
Parking Lot	135380	14.5474	1.7800e-003	3.7000e-004	14.7017
Parking Lot	158200	16.9995	2.0800e-003	4.3000e-004	17.1799
Parking Lot	162820	17.4960	2.1400e-003	4.4000e-004	17.6816
Parking Lot	213430	22.9343	2.8100e-003	5.8000e-004	23.1776
Parking Lot	2730	0.5867	7.0000e-005	1.0000e-005	0.5929



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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	27440	5.8972	7.2000e-004	1.5000e-004	5.9597
Parking Lot	32935	3.5391	4.3000e-004	9.0000e-005	3.5766
Parking Lot	47880	5.1450	6.3000e-004	1.3000e-004	5.1996
Parking Lot	53970	5.7994	7.1000e-004	1.5000e-004	5.8609
Parking Lot	5495	0.5905	7.0000e-005	1.0000e-005	0.5967
Parking Lot	60690	6.5215	8.0000e-004	1.7000e-004	6.5907
Parking Lot	83545	8.9774	1.1000e-003	2.3000e-004	9.0727
Parking Lot	95130	10.2223	1.2500e-003	2.6000e-004	10.3307
Pharmacy/Drugstore with Drive Thru	373711	40.1575	4.9200e-003	1.0200e-003	40.5835
Single Family Housing	1.49624e+007	1,607.7978	0.1968	0.0407	1,624.8531
Single Family Housing	1.8019e+007	1,936.2531	0.2370	0.0490	1,956.7926
Strip Mall	1.30741e+006	140.4891	0.0172	3.5600e-003	141.9794
Strip Mall	2.1821e+006	234.4800	0.0287	5.9400e-003	236.9674
Strip Mall	2.87399e+006	308.8274	0.0378	7.8200e-003	312.1033
Supermarket	2.61049e+006	280.5125	0.0343	7.1000e-003	283.4881
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	336396	36.1478	4.4300e-003	9.2000e-004	36.5312

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8,197.9374</b>	<b>1.0035</b>	<b>0.2076</b>	<b>8,284.8999</b>

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	156520	16.8190	2.0600e-003	4.3000e-004	16.9974
Apartments Mid Rise	3.34482e+006	359.4216	0.0440	9.1000e-003	363.2343
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	13242.2	1.4230	1.7000e-004	4.0000e-005	1.4381
Discount Club	801569	86.1334	0.0105	2.1800e-003	87.0471
Elementary School	589239	63.3173	7.7500e-003	1.6000e-003	63.9890
Fast Food Restaurant with Drive Thru	583960	62.7500	7.6800e-003	1.5900e-003	63.4157
Gasoline/Service Station	16438.9	1.7665	2.2000e-004	4.0000e-005	1.7852
Gasoline/Service Station	35617.7	3.8273	4.7000e-004	1.0000e-004	3.8679
General Office Building	1.52538e+006	163.9115	0.0201	4.1500e-003	165.6502

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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Hardware/Paint Store	133664	14.3630	1.7600e-003	3.6000e-004	14.5153
High School	654710	70.3526	8.6100e-003	1.7800e-003	71.0989
Home Improvement Superstore	667905	71.7704	8.7900e-003	1.8200e-003	72.5318
Hospital	3.06468e+006	329.3186	0.0403	8.3400e-003	332.8119
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1021.02	0.2194	3.0000e-005	1.0000e-005	0.2218
Parking Lot	10262.6	2.2056	2.7000e-004	6.0000e-005	2.2289
Parking Lot	12317.7	1.3236	1.6000e-004	3.0000e-005	1.3377
Parking Lot	17907.1	1.9242	2.4000e-004	5.0000e-005	1.9446
Parking Lot	20184.8	2.1690	2.7000e-004	5.0000e-005	2.1920
Parking Lot	2055.13	0.2208	3.0000e-005	1.0000e-005	0.2232
Parking Lot	22698.1	2.4390	3.0000e-004	6.0000e-005	2.4649
Parking Lot	31245.8	3.3576	4.1000e-004	9.0000e-005	3.3932
Parking Lot	35578.6	3.8231	4.7000e-004	1.0000e-004	3.8637
Parking Lot	44702.3	4.8035	5.9000e-004	1.2000e-004	4.8545
Parking Lot	50632.1	5.4407	6.7000e-004	1.4000e-004	5.4984

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	59166.8	6.3578	7.8000e-004	1.6000e-004	6.4253
Parking Lot	60894.7	6.5435	8.0000e-004	1.7000e-004	6.6129
Parking Lot	79822.8	8.5774	1.0500e-003	2.2000e-004	8.6684
Pharmacy/Drugstore with Drive Thru	133664	14.3630	1.7600e-003	3.6000e-004	14.5153
Single Family Housing	5.52618e+006	593.8218	0.0727	0.0150	600.1210
Single Family Housing	6.65512e+006	715.1330	0.0875	0.0181	722.7190
Strip Mall	1.02793e+006	110.4571	0.0135	2.8000e-003	111.6288
Strip Mall	467616	50.2482	6.1500e-003	1.2700e-003	50.7812
Strip Mall	780464	83.8656	0.0103	2.1200e-003	84.7552
Supermarket	954939	102.6139	0.0126	2.6000e-003	103.7024
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	125812	13.5193	1.6500e-003	3.4000e-004	13.6627
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,978.6014</b>	<b>0.3646</b>	<b>0.0754</b>	<b>3,010.1979</b>

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638
Unmitigated	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638

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	6.9946					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	45.9999					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1590	1.3587	0.5782	8.6700e-003		0.1099	0.1099		0.1099	0.1099	0.0000	1,573.5066	1,573.5066	0.0302	0.0289	1,582.8572
Landscaping	1.8946	0.7290	63.2057	3.3500e-003		0.3516	0.3516		0.3516	0.3516	0.0000	103.6341	103.6341	0.0989	0.0000	106.1066
<b>Total</b>	<b>55.0481</b>	<b>2.0877</b>	<b>63.7838</b>	<b>0.0120</b>		<b>0.4614</b>	<b>0.4614</b>		<b>0.4614</b>	<b>0.4614</b>	<b>0.0000</b>	<b>1,677.1407</b>	<b>1,677.1407</b>	<b>0.1291</b>	<b>0.0289</b>	<b>1,688.9638</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.9946					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	45.9999					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1590	1.3587	0.5782	8.6700e-003		0.1099	0.1099		0.1099	0.1099	0.0000	1,573.5066	1,573.5066	0.0302	0.0289	1,582.8572
Landscaping	1.8946	0.7290	63.2057	3.3500e-003		0.3516	0.3516		0.3516	0.3516	0.0000	103.6341	103.6341	0.0989	0.0000	106.1066
<b>Total</b>	<b>55.0481</b>	<b>2.0877</b>	<b>63.7838</b>	<b>0.0120</b>		<b>0.4614</b>	<b>0.4614</b>		<b>0.4614</b>	<b>0.4614</b>	<b>0.0000</b>	<b>1,677.1407</b>	<b>1,677.1407</b>	<b>0.1291</b>	<b>0.0289</b>	<b>1,688.9638</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	724.5790	0.8111	0.4861	889.7139
Unmitigated	724.5790	0.8111	0.4861	889.7139

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	145.75 / 91.8856	164.1601	0.1913	0.1150	203.2094
City Park	0 / 93.293	35.0871	4.3000e-003	8.9000e-004	35.4593
Convenience Market (24 Hour)	0.237032 / 0.145278	0.2654	3.1000e-004	1.9000e-004	0.3289
Discount Club	14.3478 / 8.79384	16.0656	0.0188	0.0113	19.9087
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.7468 / 0.749793	10.7274	0.0151	9.2000e-003	13.8480

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	53.0358 / 32.5058	59.3853	0.0696	0.0418	73.5910
Hardware/Paint Store	2.39254 / 1.4664	2.6790	3.1400e-003	1.8900e-003	3.3198
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	11.9553 / 7.32744	13.3866	0.0157	9.4300e-003	16.5889
Hospital	54.3833 / 10.3587	52.2541	0.0703	0.0427	66.7291
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.27546 / 1.39463	2.5479	2.9800e-003	1.7900e-003	3.1574
Single Family Housing	254.492 / 160.44	286.6380	0.3340	0.2008	354.8215
Strip Mall	40.7399 / 24.9696	45.6174	0.0534	0.0321	56.5296
Supermarket	7.96313 / 0.246282	7.1735	0.0102	6.2400e-003	9.2880
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>724.5789</b>	<b>0.8111</b>	<b>0.4861</b>	<b>889.7139</b>

7.2 Water by Land Use



Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	145.75 / 91.8856	164.1601	0.1913	0.1150	203.2094
City Park	0 / 93.293	35.0871	4.3000e-003	8.9000e-004	35.4593
Convenience Market (24 Hour)	0.237032 / 0.145278	0.2654	3.1000e-004	1.9000e-004	0.3289
Discount Club	14.3478 / 8.79384	16.0656	0.0188	0.0113	19.9087
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.7468 / 0.749793	10.7274	0.0151	9.2000e-003	13.8480
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	53.0358 / 32.5058	59.3853	0.0696	0.0418	73.5910
Hardware/Paint Store	2.39254 / 1.4664	2.6790	3.1400e-003	1.8900e-003	3.3198
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	11.9553 / 7.32744	13.3866	0.0157	9.4300e-003	16.5889
Hospital	54.3833 / 10.3587	52.2541	0.0703	0.0427	66.7291
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Pharmacy/Drugstore with Drive Thru	2.27546 / 1.39463	2.5479	2.9800e-003	1.7900e-003	3.1574
Single Family Housing	254.492 / 160.44	286.6380	0.3340	0.2008	354.8215
Strip Mall	40.7399 / 24.9696	45.6174	0.0534	0.0321	56.5296
Supermarket	7.96313 / 0.246282	7.1735	0.0102	6.2400e-003	9.2880
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>724.5789</b>	<b>0.8111</b>	<b>0.4861</b>	<b>889.7139</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3,020.5279	178.5081	0.0000	7,483.2299
Unmitigated	3,020.5279	178.5081	0.0000	7,483.2299

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1029.02	208.8818	12.3446	0.0000	517.4957
City Park	6.73	1.3661	0.0807	0.0000	3.3845
Convenience Market (24 Hour)	9.62	1.9528	0.1154	0.0000	4.8379
Discount Club	833.05	169.1016	9.9936	0.0000	418.9421
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	445.78	90.4893	5.3478	0.0000	224.1834

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	277.51	56.3320	3.3291	0.0000	139.5602
Hardware/Paint Store	358.18	72.7073	4.2969	0.0000	180.1293
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1789.79	363.3112	21.4711	0.0000	900.0881
Hospital	4680.72	950.1439	56.1519	0.0000	2,353.9412
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.13	19.7165	1.1652	0.0000	48.8468
Single Family Housing	3754.44	762.1174	45.0399	0.0000	1,888.1136
Strip Mall	577.5	117.2273	6.9279	0.0000	290.4256
Supermarket	364.34	73.9577	4.3708	0.0000	183.2271
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3,020.5279</b>	<b>178.5081</b>	<b>0.0000</b>	<b>7,483.2299</b>

8.2 Waste by Land Use

## Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1029.02	208.8818	12.3446	0.0000	517.4957
City Park	6.73	1.3661	0.0807	0.0000	3.3845
Convenience Market (24 Hour)	9.62	1.9528	0.1154	0.0000	4.8379
Discount Club	833.05	169.1016	9.9936	0.0000	418.9421
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	445.78	90.4893	5.3478	0.0000	224.1834
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	277.51	56.3320	3.3291	0.0000	139.5602
Hardware/Paint Store	358.18	72.7073	4.2969	0.0000	180.1293
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1789.79	363.3112	21.4711	0.0000	900.0881
Hospital	4680.72	950.1439	56.1519	0.0000	2,353.941 2
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Pharmacy/Drugstore with Drive Thru	97.13	19.7165	1.1652	0.0000	48.8468
Single Family Housing	3754.44	762.1174	45.0399	0.0000	1,888.1136
Strip Mall	577.5	117.2273	6.9279	0.0000	290.4256
Supermarket	364.34	73.9577	4.3708	0.0000	183.2271
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3,020.5279</b>	<b>178.5081</b>	<b>0.0000</b>	<b>7,483.2299</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

## **11.0 Vegetation**

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**APPENDIX E-4**  
**ALTERNATIVE 2 ANNUAL OPERATIONAL EMISSIONS – CUMULATIVE VMT**

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Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	766.60	1000sqft	21.36	766,600.00	0
Pharmacy/Drugstore with Drive Thru	32.50	1000sqft	1.20	32,500.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,213.00	0
Parking Lot	468.30	1000sqft	10.75	468,300.00	0
Parking Lot	390.30	1000sqft	8.96	390,300.00	0
Parking Lot	156.80	1000sqft	3.60	156,800.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	93.70	1000sqft	2.15	93,700.00	0
Parking Lot	273.10	1000sqft	6.27	273,100.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.40	1000sqft	0.17	7,400.00	0
Parking Lot	416.00	1000sqft	9.55	416,000.00	0
Parking Lot	343.20	1000sqft	7.88	343,200.00	0
Parking Lot	613.30	1000sqft	14.08	613,300.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
City Park	40.60	Acre	40.60	1,768,536.00	0
City Park	38.20	Acre	38.20	1,663,992.00	0
Fast Food Restaurant with Drive Thru	39.00	1000sqft	1.43	39,000.00	0
Apartments Mid Rise	2,050.00	Dwelling Unit	82.00	2,050,000.00	5474
Apartments Mid Rise	100.00	Dwelling Unit	11.82	178,600.00	267
Single Family Housing	3,540.00	Dwelling Unit	507.10	6,372,000.00	9452
Convenience Market (24 Hour)	3.30	1000sqft	0.12	3,300.00	0
Discount Club	195.00	1000sqft	7.16	195,000.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.11	3,000.00	0
Hardware/Paint Store	32.50	1000sqft	1.20	32,500.00	0
Home Improvement Superstore	162.50	1000sqft	5.97	162,500.00	0
Strip Mall	113.80	1000sqft	4.18	113,800.00	0
Strip Mall	173.40	1000sqft	6.37	173,400.00	0
Strip Mall	250.40	1000sqft	0.00	250,400.00	0
Supermarket	65.00	1000sqft	2.40	65,000.00	0

1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	236.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

1.3 User Entered Comments & Non-Default Data

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O are default for SMUD.

Land Use - Land use and acreages per Applicant. Acreage for Multi-use shopping entered as 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Vehicle Trips - Trip frequencies and lengths adjusted to match Traffic Study.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,194,357.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,583,070.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,292.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	5,805,405.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	17,416,215.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00

## Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,150.00
tblFireplaces	NumberGas	0.00	3,540.00
tblFireplaces	NumberNoFireplace	2,150.00	0.00
tblFireplaces	NumberNoFireplace	3,540.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,213.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	17.60	21.36
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.90	1.43
tblLandUse	LotAcreage	2.63	11.82
tblLandUse	LotAcreage	53.95	82.00
tblLandUse	LotAcreage	1,149.35	507.10
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	4.48	7.16
tblLandUse	LotAcreage	0.08	0.11
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	3.73	5.97
tblLandUse	LotAcreage	2.61	4.18
tblLandUse	LotAcreage	3.98	6.37
tblLandUse	LotAcreage	5.75	0.00





Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

tblVehicleTrips	CW_TL	10.00	6.00
tblVehicleTrips	CW_TL	10.00	6.00
tblVehicleTrips	CW_TL	10.00	6.00
tblVehicleTrips	CW_TL	10.00	6.00
tblVehicleTrips	CW_TL	10.00	6.00
tblVehicleTrips	HO_TL	6.50	3.99
tblVehicleTrips	HO_TL	6.50	3.99
tblVehicleTrips	HS_TL	5.00	3.00
tblVehicleTrips	HS_TL	5.00	3.00
tblVehicleTrips	HW_TL	10.00	6.00
tblVehicleTrips	HW_TL	10.00	6.00
tblVehicleTrips	ST_TR	6.39	3.80
tblVehicleTrips	ST_TR	22.75	13.70
tblVehicleTrips	ST_TR	863.10	518.00
tblVehicleTrips	ST_TR	2.46	1.50
tblVehicleTrips	ST_TR	4.37	2.60
tblVehicleTrips	ST_TR	46.55	27.90
tblVehicleTrips	ST_TR	9.91	5.90
tblVehicleTrips	ST_TR	42.04	25.20
tblVehicleTrips	ST_TR	177.59	106.60
tblVehicleTrips	SU_TR	5.86	3.50
tblVehicleTrips	SU_TR	16.74	10.00
tblVehicleTrips	SU_TR	758.45	455.00
tblVehicleTrips	SU_TR	1.05	0.60
tblVehicleTrips	SU_TR	1.79	1.10
tblVehicleTrips	SU_TR	25.49	15.30
tblVehicleTrips	SU_TR	8.62	5.20

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

tblVehicleTrips	SU_TR	20.43	12.30
tblVehicleTrips	SU_TR	166.44	99.90
tblVehicleTrips	WD_TR	6.65	4.00
tblVehicleTrips	WD_TR	1.89	1.10
tblVehicleTrips	WD_TR	737.99	443.00
tblVehicleTrips	WD_TR	15.43	9.30
tblVehicleTrips	WD_TR	11.03	6.60
tblVehicleTrips	WD_TR	12.89	7.70
tblVehicleTrips	WD_TR	56.24	33.70
tblVehicleTrips	WD_TR	9.52	5.70
tblVehicleTrips	WD_TR	44.32	26.60
tblVehicleTrips	WD_TR	102.24	61.30

## 2.0 Emissions Summary

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		



Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Energy	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	15,243.7269	15,243.7269	1.0735	0.3324	15,369.6177
Mobile	11.5302	61.1392	85.2499	0.3287	33.7930	0.1914	33.9844	9.0479	0.1776	9.2254	0.0000	30,497.5957	30,497.5957	1.4559	0.0000	30,533.9934
Waste						0.0000	0.0000		0.0000	0.0000	2,082.0255	0.0000	2,082.0255	123.0442	0.0000	5,158.1301
Water						0.0000	0.0000		0.0000	0.0000	217.1821	514.6403	731.8224	0.8105	0.4853	896.7150
<b>Total</b>	<b>63.8922</b>	<b>69.4022</b>	<b>147.6682</b>	<b>0.3797</b>	<b>33.7930</b>	<b>1.1231</b>	<b>34.9160</b>	<b>9.0479</b>	<b>1.1092</b>	<b>10.1571</b>	<b>2,299.2076</b>	<b>47,356.0601</b>	<b>49,655.2677</b>	<b>126.4950</b>	<b>0.8361</b>	<b>53,066.8112</b>

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Energy	0.6800	5.8929	3.0740	0.0371		0.4698	0.4698		0.4698	0.4698	0.0000	9,511.1817	9,511.1817	0.4695	0.1938	9,580.6787
Mobile	11.5302	61.1392	85.2499	0.3287	33.7930	0.1914	33.9844	9.0479	0.1776	9.2254	0.0000	30,497.5957	30,497.5957	1.4559	0.0000	30,533.9934
Waste						0.0000	0.0000		0.0000	0.0000	2,082.0255	0.0000	2,082.0255	123.0442	0.0000	5,158.1301
Water						0.0000	0.0000		0.0000	0.0000	217.1821	514.6403	731.8224	0.8105	0.4853	896.7150
<b>Total</b>	<b>63.7966</b>	<b>68.5744</b>	<b>147.2436</b>	<b>0.3745</b>	<b>33.7930</b>	<b>1.0570</b>	<b>34.8500</b>	<b>9.0479</b>	<b>1.0432</b>	<b>10.0910</b>	<b>2,299.2076</b>	<b>41,623.5149</b>	<b>43,922.7225</b>	<b>125.8910</b>	<b>0.6976</b>	<b>47,277.8722</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.15</b>	<b>1.19</b>	<b>0.29</b>	<b>1.37</b>	<b>0.00</b>	<b>5.88</b>	<b>0.19</b>	<b>0.00</b>	<b>5.96</b>	<b>0.65</b>	<b>0.00</b>	<b>12.11</b>	<b>11.54</b>	<b>0.48</b>	<b>16.57</b>	<b>10.91</b>

**3.0 Construction Detail**

**Construction Phase**

## Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

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

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

**Acres of Paving: 84.67**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	11.5302	61.1392	85.2499	0.3287	33.7930	0.1914	33.9844	9.0479	0.1776	9.2254	0.0000	30,497.59 57	30,497.59 57	1.4559	0.0000	30,533.99 34
Unmitigated	11.5302	61.1392	85.2499	0.3287	33.7930	0.1914	33.9844	9.0479	0.1776	9.2254	0.0000	30,497.59 57	30,497.59 57	1.4559	0.0000	30,533.99 34

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	8,200.00	7,790.00	7175.00	12,408,422	12,408,422
Apartments Mid Rise	400.00	380.00	350.00	605,289	605,289
City Park	44.66	556.22	406.00	188,394	188,394
City Park	42.02	523.34	382.00	177,258	177,258
Convenience Market (24 Hour)	1,461.90	1,709.40	1501.50	521,453	521,453
Discount Club	8,151.00	10,481.25	6565.65	6,143,663	6,143,663
Elementary School	2,092.50	0.00	0.00	1,890,113	1,890,113
Fast Food Restaurant with Drive Thru	19,348.68	28,159.17	21166.08	8,845,263	8,845,263
Gasoline/Service Station	8,090.88	8,090.88	8090.88	2,158,687	2,158,687
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,079,344	1,079,344
General Office Building	5,059.56	1,149.90	459.96	4,784,694	4,784,694
Hardware/Paint Store	1,666.93	2,681.90	2231.13	1,312,286	1,312,286
High School	1,925.00	650.00	275.00	2,358,619	2,358,619
Home Improvement Superstore	4,995.25	9,217.00	9067.50	3,345,852	3,345,852
Library	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,149.58	3,149.58	3149.58	1,670,260	1,670,260
Single Family Housing	20,178.00	20,886.00	18408.00	31,081,251	31,081,251



Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

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
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	6.00	3.00	3.99	7.50	73.50	19.00	38	13	49
Single Family Housing	6.00	3.00	3.99	46.50	12.50	41.00	86	11	3
Strip Mall	6.00	3.00	3.99	16.60	64.40	19.00	45	40	15
Strip Mall	6.00	3.00	3.99	16.60	64.40	19.00	45	40	15
Strip Mall	6.00	3.00	3.99	16.60	64.40	19.00	45	40	15
Supermarket	6.00	3.00	3.99	6.50	74.50	19.00	34	30	36
User Defined Industrial	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix



Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, 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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,781.5335	2,781.5335	0.3405	0.0705	2,811.0396
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7,567.4871	7,567.4871	0.9264	0.1917	7,647.7619
NaturalGas Mitigated	0.6800	5.8929	3.0740	0.0371		0.4698	0.4698		0.4698	0.4698	0.0000	6,729.6482	6,729.6482	0.1290	0.1234	6,769.6392
NaturalGas Unmitigated	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	7,676.2398	7,676.2398	0.1471	0.1407	7,721.8558

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 Mid Rise	1.99836e+007	0.1078	0.9208	0.3918	5.8800e-003		0.0745	0.0745		0.0745	0.0745	0.0000	1,066.4013	1,066.4013	0.0204	0.0196	1,072.7384
Apartments Mid Rise	974810	5.2600e-003	0.0449	0.0191	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	52.0196	52.0196	1.0000e-003	9.5000e-004	52.3287
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	17886	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9545	0.9545	2.0000e-005	2.0000e-005	0.9601
Discount Club	1.0569e+006	5.7000e-003	0.0518	0.0435	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4002	56.4002	1.0800e-003	1.0300e-003	56.7354



Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Total		0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	7,676.2398	7,676.2398	0.1471	0.1407	7,721.8558
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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	871718	4.7000e-003	0.0402	0.0171	2.6000e-004		3.2500e-003	3.2500e-003		3.2500e-003	3.2500e-003	0.0000	46.5182	46.5182	8.9000e-004	8.5000e-004	46.7946
Apartments Mid Rise	1.78702e+007	0.0964	0.8234	0.3504	5.2600e-003		0.0666	0.0666		0.0666	0.0666	0.0000	953.6229	953.6229	0.0183	0.0175	959.2898
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	15722.7	8.0000e-005	7.7000e-004	6.5000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8390	0.8390	2.0000e-005	2.0000e-005	0.8440
Discount Club	929070	5.0100e-003	0.0455	0.0383	2.7000e-004		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	49.5787	49.5787	9.5000e-004	9.1000e-004	49.8733
Elementary School	2.95389e+006	0.0159	0.1448	0.1216	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.6308	157.6308	3.0200e-003	2.8900e-003	158.5675
Fast Food Restaurant with Drive Thru	6.5906e+006	0.0355	0.3231	0.2714	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	351.6993	351.6993	6.7400e-003	6.4500e-003	353.7893
Gasoline/Service Station	210568	1.1400e-003	0.0103	8.6700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.2367	11.2367	2.2000e-004	2.1000e-004	11.3035
Gasoline/Service Station	97185.2	5.2000e-004	4.7600e-003	4.0000e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1862	5.1862	1.0000e-004	1.0000e-004	5.2170
General Office Building	8.65237e+006	0.0467	0.4241	0.3563	2.5400e-003		0.0322	0.0322		0.0322	0.0322	0.0000	461.7234	461.7234	8.8500e-003	8.4600e-003	464.4672
Hardware/Paint Store	154845	8.3000e-004	7.5900e-003	6.3800e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2631	8.2631	1.6000e-004	1.5000e-004	8.3122
High School	3.2821e+006	0.0177	0.1609	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	175.1454	175.1454	3.3600e-003	3.2100e-003	176.1862
Home Improvement Superstore	774225	4.1700e-003	0.0380	0.0319	2.3000e-004		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	41.3156	41.3156	7.9000e-004	7.6000e-004	41.5611

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	154845	8.3000e-004	7.5900e-003	6.3800e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2631	8.2631	1.6000e-004	1.5000e-004	8.3122
Single Family Housing	7.94912e+007	0.4286	3.6628	1.5587	0.0234		0.2961	0.2961		0.2961	0.2961	0.0000	4,241.9505	4,241.9505	0.0813	0.0778	4,267.1583
Strip Mall	1.19302e+006	6.4300e-003	0.0585	0.0491	3.5000e-004		4.4400e-003	4.4400e-003		4.4400e-003	4.4400e-003	0.0000	63.6641	63.6641	1.2200e-003	1.1700e-003	64.0425
Strip Mall	542196	2.9200e-003	0.0266	0.0223	1.6000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	28.9336	28.9336	5.5000e-004	5.3000e-004	29.1056
Strip Mall	826157	4.4500e-003	0.0405	0.0340	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	44.0869	44.0869	8.4000e-004	8.1000e-004	44.3489
Supermarket	1.49897e+006	8.0800e-003	0.0735	0.0617	4.4000e-004		5.5800e-003	5.5800e-003		5.5800e-003	5.5800e-003	0.0000	79.9908	79.9908	1.5300e-003	1.4700e-003	80.4661
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.6800</b>	<b>5.8929</b>	<b>3.0740</b>	<b>0.0371</b>		<b>0.4698</b>	<b>0.4698</b>		<b>0.4698</b>	<b>0.4698</b>	<b>0.0000</b>	<b>6,729.6482</b>	<b>6,729.6482</b>	<b>0.1290</b>	<b>0.1234</b>	<b>6,769.6392</b>

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	425646	45.7382	5.6000e-003	1.1600e-003	46.2234
Apartments Mid Rise	8.72574e+006	937.6337	0.1148	0.0238	947.5800

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	38181	4.1028	5.0000e-004	1.0000e-004	4.1463
Discount Club	2.25615e+006	242.4369	0.0297	6.1400e-003	245.0087
Elementary School	1.647e+006	176.9801	0.0217	4.4800e-003	178.8575
Fast Food Restaurant with Drive Thru	1.62669e+006	174.7977	0.0214	4.4300e-003	176.6519
Gasoline/Service Station	45540	4.8936	6.0000e-004	1.2000e-004	4.9455
Gasoline/Service Station	98670	10.6027	1.3000e-003	2.7000e-004	10.7152
General Office Building	1.10697e+007	1,189.5065	0.1456	0.0301	1,202.1246
Hardware/Paint Store	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
High School	1.83e+006	196.6445	0.0241	4.9800e-003	198.7305
Home Improvement Superstore	1.88013e+006	202.0308	0.0247	5.1200e-003	204.1739
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	120120	12.9076	1.5800e-003	3.3000e-004	13.0445
Parking Lot	136605	14.6790	1.8000e-003	3.7000e-004	14.8347
Parking Lot	145600	15.6456	1.9200e-003	4.0000e-004	15.8116
Parking Lot	163905	17.6126	2.1600e-003	4.5000e-004	17.7994

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	213430	22.9343	2.8100e-003	5.8000e-004	23.1776
Parking Lot	214655	23.0660	2.8200e-003	5.8000e-004	23.3107
Parking Lot	2590	0.2783	3.0000e-005	1.0000e-005	0.2813
Parking Lot	2730	0.2934	4.0000e-005	1.0000e-005	0.2965
Parking Lot	27300	5.8671	7.2000e-004	1.5000e-004	5.9293
Parking Lot	32795	3.5240	4.3000e-004	9.0000e-005	3.5614
Parking Lot	47880	5.1450	6.3000e-004	1.3000e-004	5.1996
Parking Lot	54880	5.8972	7.2000e-004	1.5000e-004	5.9597
Parking Lot	5495	0.5905	7.0000e-005	1.0000e-005	0.5967
Parking Lot	95585	10.2712	1.2600e-003	2.6000e-004	10.3801
Pharmacy/Drugstore with Drive Thru	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
Single Family Housing	2.9891e+007	3,211.9663	0.3932	0.0814	3,246.0383
Strip Mall	1.31667e+006	141.4837	0.0173	3.5800e-003	142.9845
Strip Mall	2.00624e+006	215.5824	0.0264	5.4600e-003	217.8692
Strip Mall	2.89713e+006	311.3139	0.0381	7.8800e-003	314.6163
Supermarket	2.62665e+006	282.2494	0.0346	7.1500e-003	285.2435
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

<b>Total</b>		<b>7,567.487 1</b>	<b>0.9264</b>	<b>0.1917</b>	<b>7,647.761 9</b>
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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	157932	16.9707	2.0800e-003	4.3000e-004	17.1507
Apartments Mid Rise	3.2376e+006	347.8993	0.0426	8.8100e-003	351.5898
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	13802.1	1.4831	1.8000e-004	4.0000e-005	1.4989
Discount Club	815578	87.6388	0.0107	2.2200e-003	88.5685
Elementary School	595531	63.9934	7.8300e-003	1.6200e-003	64.6722
Fast Food Restaurant with Drive Thru	594372	63.8688	7.8200e-003	1.6200e-003	64.5463
Gasoline/Service Station	16605.5	1.7844	2.2000e-004	5.0000e-005	1.8033
Gasoline/Service Station	35978.6	3.8661	4.7000e-004	1.0000e-004	3.9071
General Office Building	3.96315e+006	425.8640	0.0521	0.0108	430.3815
Hardware/Paint Store	135930	14.6065	1.7900e-003	3.7000e-004	14.7614
High School	661701	71.1038	8.7000e-003	1.8000e-003	71.8580
Home Improvement Superstore	679649	73.0323	8.9400e-003	1.8500e-003	73.8071



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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1029.21	0.1106	1.0000e-005	0.0000	0.1118
Parking Lot	10292.1	2.2119	2.7000e-004	6.0000e-005	2.2354
Parking Lot	12363.7	1.3286	1.6000e-004	3.0000e-005	1.3427
Parking Lot	18050.8	1.9397	2.4000e-004	5.0000e-005	1.9602
Parking Lot	20689.8	2.2232	2.7000e-004	6.0000e-005	2.2468
Parking Lot	2071.61	0.2226	3.0000e-005	1.0000e-005	0.2250
Parking Lot	36035.5	3.8722	4.7000e-004	1.0000e-004	3.9133
Parking Lot	45285.2	4.8662	6.0000e-004	1.2000e-004	4.9178
Parking Lot	51500.1	5.5340	6.8000e-004	1.4000e-004	5.5927
Parking Lot	54891.2	5.8984	7.2000e-004	1.5000e-004	5.9610
Parking Lot	61792.2	6.6399	8.1000e-004	1.7000e-004	6.7104
Parking Lot	80463.1	8.6463	1.0600e-003	2.2000e-004	8.7380
Parking Lot	80924.9	8.6959	1.0600e-003	2.2000e-004	8.7881
Parking Lot	976.43	0.1049	1.0000e-005	0.0000	0.1060
Pharmacy/Drugstore with Drive Thru	135930	14.6065	1.7900e-003	3.7000e-004	14.7614
Single Family Housing	1.11366e+007	1,196.6952	0.1465	0.0303	1,209.3896

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	1.04729e+006	112.5372	0.0138	2.8500e-003	113.7310
Strip Mall	475963	51.1451	6.2600e-003	1.3000e-003	51.6877
Strip Mall	725237	77.9311	9.5400e-003	1.9700e-003	78.7578
Supermarket	969818	104.2128	0.0128	2.6400e-003	105.3183
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,781.5335</b>	<b>0.3405</b>	<b>0.0705</b>	<b>2,811.0396</b>

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Unmitigated	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**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	6.5401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.1895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1015	0.8670	0.3689	5.5300e-003		0.0701	0.0701		0.0701	0.0701	0.0000	1,004.0934	1,004.0934	0.0193	0.0184	1,010.0602
Landscaping	1.7555	0.6753	58.5508	3.1000e-003		0.3257	0.3257		0.3257	0.3257	0.0000	96.0038	96.0038	0.0916	0.0000	98.2947
<b>Total</b>	<b>51.5864</b>	<b>1.5423</b>	<b>58.9197</b>	<b>8.6300e-003</b>		<b>0.3958</b>	<b>0.3958</b>		<b>0.3958</b>	<b>0.3958</b>	<b>0.0000</b>	<b>1,100.0972</b>	<b>1,100.0972</b>	<b>0.1109</b>	<b>0.0184</b>	<b>1,108.3550</b>

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, 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	6.5401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.1895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1015	0.8670	0.3689	5.5300e-003		0.0701	0.0701		0.0701	0.0701	0.0000	1,004.0934	1,004.0934	0.0193	0.0184	1,010.0602
Landscaping	1.7555	0.6753	58.5508	3.1000e-003		0.3257	0.3257		0.3257	0.3257	0.0000	96.0038	96.0038	0.0916	0.0000	98.2947
<b>Total</b>	<b>51.5864</b>	<b>1.5423</b>	<b>58.9197</b>	<b>8.6300e-003</b>		<b>0.3958</b>	<b>0.3958</b>		<b>0.3958</b>	<b>0.3958</b>	<b>0.0000</b>	<b>1,100.0972</b>	<b>1,100.0972</b>	<b>0.1109</b>	<b>0.0184</b>	<b>1,108.3550</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	731.8224	0.8105	0.4853	896.7150
Unmitigated	731.8224	0.8105	0.4853	896.7150

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	140.081 / 88.312	157.7757	0.1838	0.1105	195.3063
City Park	0 / 93.8887	35.3112	4.3200e-003	8.9000e-004	35.6858
Convenience Market (24 Hour)	0.244439 / 0.149818	0.2737	3.2000e-004	1.9000e-004	0.3392
Discount Club	14.4441 / 8.85286	16.1734	0.0189	0.0114	20.0423
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.8378 / 0.755605	10.8105	0.0152	9.2800e-003	13.9553

## Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	136.251 / 83.5085	152.5630	0.1787	0.1075	189.0578
Hardware/Paint Store	2.40736 / 1.47548	2.6956	3.1600e-003	1.9000e-003	3.3404
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	12.0368 / 7.37738	13.4779	0.0158	9.4900e-003	16.7019
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.28954 / 1.40327	2.5637	3.0000e-003	1.8100e-003	3.1769
Single Family Housing	230.645 / 145.407	259.7795	0.3027	0.1820	321.5740
Strip Mall	39.8214 / 24.4067	44.5889	0.0522	0.0314	55.2551
Supermarket	8.01243 / 0.247807	7.2180	0.0103	6.2800e-003	9.3455
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>731.8224</b>	<b>0.8105</b>	<b>0.4853</b>	<b>896.7150</b>

## 7.2 Water by Land Use

Mitigated

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	140.081 / 88.312	157.7757	0.1838	0.1105	195.3063
City Park	0 / 93.8887	35.3112	4.3200e-003	8.9000e-004	35.6858
Convenience Market (24 Hour)	0.244439 / 0.149818	0.2737	3.2000e-004	1.9000e-004	0.3392
Discount Club	14.4441 / 8.85286	16.1734	0.0189	0.0114	20.0423
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.8378 / 0.755605	10.8105	0.0152	9.2800e-003	13.9553
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	136.251 / 83.5085	152.5630	0.1787	0.1075	189.0578
Hardware/Paint Store	2.40736 / 1.47548	2.6956	3.1600e-003	1.9000e-003	3.3404
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	12.0368 / 7.37738	13.4779	0.0158	9.4900e-003	16.7019
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.28954 / 1.40327	2.5637	3.0000e-003	1.8100e-003	3.1769
Single Family Housing	230.645 / 145.407	259.7795	0.3027	0.1820	321.5740
Strip Mall	39.8214 / 24.4067	44.5889	0.0522	0.0314	55.2551
Supermarket	8.01243 / 0.247807	7.2180	0.0103	6.2800e-003	9.3455

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>731.8224</b>	<b>0.8105</b>	<b>0.4853</b>	<b>896.7150</b>

### 8.0 Waste Detail

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#### 8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,082.0255	123.0442	0.0000	5,158.1301
Unmitigated	2,082.0255	123.0442	0.0000	5,158.1301

#### 8.2 Waste by Land Use

Unmitigated



## Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	989	200.7581	11.8645	0.0000	497.3696
City Park	6.78	1.3763	0.0813	0.0000	3.4097
Convenience Market (24 Hour)	9.92	2.0137	0.1190	0.0000	4.9888
Discount Club	838.64	170.2363	10.0607	0.0000	421.7533
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	449.24	91.1917	5.3893	0.0000	225.9235
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	712.94	144.7204	8.5527	0.0000	358.5386
Hardware/Paint Store	360.4	73.1579	4.3235	0.0000	181.2457
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1801.99	365.7877	21.6174	0.0000	906.2235
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.73	19.8383	1.1724	0.0000	49.1486
Single Family Housing	3402.72	690.7214	40.8205	0.0000	1,711.2331
Strip Mall	564.48	114.5843	6.7717	0.0000	283.8779
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,082.0255</b>	<b>123.0442</b>	<b>0.0000</b>	<b>5,158.1301</b>

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	989	200.7581	11.8645	0.0000	497.3696
City Park	6.78	1.3763	0.0813	0.0000	3.4097
Convenience Market (24 Hour)	9.92	2.0137	0.1190	0.0000	4.9888
Discount Club	838.64	170.2363	10.0607	0.0000	421.7533
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	449.24	91.1917	5.3893	0.0000	225.9235
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	712.94	144.7204	8.5527	0.0000	358.5386
Hardware/Paint Store	360.4	73.1579	4.3235	0.0000	181.2457
High School	325	65.9721	3.8988	0.0000	163.4430

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Home Improvement Superstore	1801.99	365.7877	21.6174	0.0000	906.2235
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.73	19.8383	1.1724	0.0000	49.1486
Single Family Housing	3402.72	690.7214	40.8205	0.0000	1,711.2331
Strip Mall	564.48	114.5843	6.7717	0.0000	283.8779
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,082.0255</b>	<b>123.0442</b>	<b>0.0000</b>	<b>5,158.1301</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX F**  
**ORIGINAL PROJECT AND ALTERNATIVE 2**  
**PEAK SUMMER AND WINTER DAILY OPERATIONAL EMISSION ESTIMATES**

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**APPENDIX F-1**  
**ORIGINAL PROJECT PEAK DAILY SUMMER OPERATIONAL**  
**EMISSIONS – PROJECT-RELATED VMT**

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Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	298.40	1000sqft	8.22	298,400.00	0
Hospital	433.40	1000sqft	11.94	433,400.00	0
Office Park	0.00	1000sqft	0.00	0.00	0
Pharmacy/Drugstore with Drive Thru	32.30	1000sqft	1.20	32,300.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,123.00	0
Parking Lot	465.20	1000sqft	10.68	465,200.00	0
Parking Lot	386.80	1000sqft	8.88	386,800.00	0
Parking Lot	154.20	1000sqft	3.54	154,200.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	94.10	1000sqft	2.16	94,100.00	0
Parking Lot	271.80	1000sqft	6.24	271,800.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	452.00	1000sqft	10.38	452,000.00	0
Parking Lot	341.50	1000sqft	7.84	341,500.00	0

## Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Parking Lot	173.40	1000sqft	3.98	173,400.00	0
Parking Lot	238.70	1000sqft	5.48	238,700.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Unenclosed Parking with Elevator	173.40	1000sqft	3.98	173,400.00	0
Unenclosed Parking with Elevator	0.00	1000sqft	0.00	0.00	0
City Park	39.20	Acre	39.20	1,707,552.00	0
City Park	39.10	Acre	39.10	1,703,196.00	0
Fast Food Restaurant with Drive Thru	38.70	1000sqft	1.44	38,700.00	0
Apartments Mid Rise	2,137.00	Dwelling Unit	85.00	2,137,000.00	5706
Apartments Mid Rise	100.00	Dwelling Unit	11.76	178,600.00	267
Single Family Housing	2,134.00	Dwelling Unit	355.70	3,841,200.00	5698
Single Family Housing	1,772.00	Dwelling Unit	136.30	3,189,600.00	4731
Convenience Market (24 Hour)	3.20	1000sqft	0.12	3,200.00	0
Discount Club	193.70	1000sqft	7.12	193,700.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.12	3,000.00	0
Hardware/Paint Store	32.30	1000sqft	1.20	32,300.00	0
Home Improvement Superstore	161.40	1000sqft	5.92	161,400.00	0
Strip Mall	113.00	1000sqft	4.16	113,000.00	0
Strip Mall	188.60	1000sqft	6.92	188,600.00	0
Strip Mall	248.40	1000sqft	0.00	248,400.00	0
Supermarket	64.60	1000sqft	2.36	64,600.00	0

## 1.2 Other Project Characteristics



Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	236.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O intensity SMUD default.

Land Use - Non-default from Project Description. Mixed Use Retail lot acreage set to 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Vehicle Trips - Trip frequencies and lengths adjusted to match Traffic Study.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,181,312.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,543,935.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,148.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	6,308,820.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	18,926,460.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00

## Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,237.00
tblFireplaces	NumberGas	0.00	3,906.00
tblFireplaces	NumberNoFireplace	2,237.00	0.00
tblFireplaces	NumberNoFireplace	3,906.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,123.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	6.85	8.22
tblLandUse	LotAcreage	9.95	11.94
tblLandUse	LotAcreage	0.74	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.89	1.44
tblLandUse	LotAcreage	56.24	85.00
tblLandUse	LotAcreage	2.63	11.76
tblLandUse	LotAcreage	692.86	355.70
tblLandUse	LotAcreage	575.32	136.30





Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblVehicleTrips	CNW_TL	6.50	4.00
tblVehicleTrips	CNW_TL	6.50	4.00
tblVehicleTrips	CNW_TL	6.50	4.00
tblVehicleTrips	CNW_TL	6.50	4.00
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	HO_TL	6.50	4.00
tblVehicleTrips	HO_TL	6.50	4.00
tblVehicleTrips	HS_TL	5.00	3.00
tblVehicleTrips	HS_TL	5.00	3.00

## Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblVehicleTrips	HW_TL	10.00	6.10
tblVehicleTrips	HW_TL	10.00	6.10
tblVehicleTrips	ST_TR	6.39	5.30
tblVehicleTrips	ST_TR	22.75	19.00
tblVehicleTrips	ST_TR	863.10	718.00
tblVehicleTrips	ST_TR	2.46	2.10
tblVehicleTrips	ST_TR	4.37	3.60
tblVehicleTrips	ST_TR	46.55	38.90
tblVehicleTrips	ST_TR	1.64	1.30
tblVehicleTrips	ST_TR	9.91	8.30
tblVehicleTrips	ST_TR	42.04	35.00
tblVehicleTrips	ST_TR	177.59	145.00
tblVehicleTrips	SU_TR	5.86	4.80
tblVehicleTrips	SU_TR	16.74	13.90
tblVehicleTrips	SU_TR	758.45	631.00
tblVehicleTrips	SU_TR	1.05	0.80
tblVehicleTrips	SU_TR	1.79	1.50
tblVehicleTrips	SU_TR	25.49	21.20
tblVehicleTrips	SU_TR	0.76	0.60
tblVehicleTrips	SU_TR	8.62	7.30
tblVehicleTrips	SU_TR	20.43	17.10
tblVehicleTrips	SU_TR	166.44	138.60
tblVehicleTrips	WD_TR	6.65	5.50
tblVehicleTrips	WD_TR	1.89	1.50
tblVehicleTrips	WD_TR	737.99	614.00
tblVehicleTrips	WD_TR	15.43	12.90
tblVehicleTrips	WD_TR	11.03	9.10



Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.35 69	57,137.35 69	1.0951	1.0475	57,476.89 57
Mobile	129.1409	496.0875	762.3412	3.0337	305.0645	1.6205	306.6850	81.4475	1.5035	82.9511		309,835.2 563	309,835.2 563	13.2629		310,166.8 291
<b>Total</b>	<b>447.8660</b>	<b>615.4907</b>	<b>1,322.3875</b>	<b>3.7798</b>	<b>305.0645</b>	<b>13.5445</b>	<b>318.6090</b>	<b>81.4475</b>	<b>13.4275</b>	<b>94.8750</b>	<b>0.0000</b>	<b>454,611.2153</b>	<b>454,611.2153</b>	<b>16.8924</b>	<b>2.6375</b>	<b>455,819.4922</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.18 88	49,649.18 88	0.9516	0.9102	49,944.22 91
Mobile	129.1409	496.0875	762.3412	3.0337	305.0645	1.6205	306.6850	81.4475	1.5035	82.9511		309,835.2 563	309,835.2 563	13.2629		310,166.8 291
<b>Total</b>	<b>447.1796</b>	<b>609.5158</b>	<b>1,319.0914</b>	<b>3.7424</b>	<b>305.0645</b>	<b>13.0703</b>	<b>318.1348</b>	<b>81.4475</b>	<b>12.9532</b>	<b>94.4008</b>	<b>0.0000</b>	<b>447,123.0471</b>	<b>447,123.0471</b>	<b>16.7489</b>	<b>2.5002</b>	<b>448,286.8256</b>



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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.15	0.97	0.25	0.99	0.00	3.50	0.15	0.00	3.53	0.50	0.00	1.65	1.65	0.85	5.20	1.65

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 84.62

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	129.1409	496.0875	762.3412	3.0337	305.0645	1.6205	306.6850	81.4475	1.5035	82.9511		309,835.2563	309,835.2563	13.2629		310,166.8291
Unmitigated	129.1409	496.0875	762.3412	3.0337	305.0645	1.6205	306.6850	81.4475	1.5035	82.9511		309,835.2563	309,835.2563	13.2629		310,166.8291



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Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,130.19	3,130.19	3130.19	1,664,400	1,664,400
Single Family Housing	16,858.60	17,712.20	15578.20	26,344,881	26,344,881
Single Family Housing	13,998.80	14,707.60	12935.60	21,875,881	21,875,881
Strip Mall	4,181.00	3,955.00	1932.30	2,859,584	2,859,584
Strip Mall	6,978.20	6,601.00	3225.06	4,772,722	4,772,722
Strip Mall	9,190.80	8,694.00	4247.64	6,286,024	6,286,024
Supermarket	5,491.00	9,367.00	8953.56	3,435,940	3,435,940
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>134,287.76</b>	<b>148,057.31</b>	<b>119,208.02</b>	<b>126,596,742</b>	<b>126,596,742</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	6.10	3.00	4.00	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	6.10	3.00	4.00	46.50	12.50	41.00	86	11	3
City Park	6.10	3.00	4.00	33.00	48.00	19.00	66	28	6
City Park	6.10	3.00	4.00	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	6.10	3.00	4.00	0.90	80.10	19.00	24	15	61
Discount Club	6.10	3.00	4.00	16.70	64.30	19.00	45	40	15
Elementary School	6.10	3.00	4.00	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	6.10	3.00	4.00	2.20	78.80	19.00	29	21	50
Gasoline/Service Station	6.10	3.00	4.00	2.00	79.00	19.00	14	27	59
Gasoline/Service Station	6.10	3.00	4.00	2.00	79.00	19.00	14	27	59
General Office Building	6.10	3.00	4.00	33.00	48.00	19.00	77	19	4
Hardware/Paint Store	6.10	3.00	4.00	13.60	67.40	19.00	45	29	26
High School	6.10	3.00	4.00	77.80	17.20	5.00	75	19	6
Home Improvement Superstore	6.10	3.00	4.00	23.40	57.60	19.00	32	20	48
Hospital	6.10	3.00	4.00	64.90	16.10	19.00	73	25	2

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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
Library	6.10	3.00	4.00	52.00	43.00	5.00	44	44	12
Office Park	6.10	3.00	4.00	33.00	48.00	19.00	82	15	3
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	6.10	3.00	4.00	7.50	73.50	19.00	38	13	49
Single Family Housing	6.10	3.00	4.00	46.50	12.50	41.00	86	11	3
Single Family Housing	6.10	3.00	4.00	46.50	12.50	41.00	86	11	3
Strip Mall	6.10	3.00	4.00	16.60	64.40	19.00	45	40	15
Strip Mall	6.10	3.00	4.00	16.60	64.40	19.00	45	40	15
Strip Mall	6.10	3.00	4.00	16.60	64.40	19.00	45	40	15
Supermarket	6.10	3.00	4.00	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
User Defined Industrial	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hospital	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Office Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Unenclosed Parking with Elevator	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.1888	49,649.1888	0.9516	0.9102	49,944.2291
NaturalGas Unmitigated	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.3569	57,137.3569	1.0951	1.0475	57,476.8957

**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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	57073.1	0.6155	5.2597	2.2382	0.0336		0.4253	0.4253		0.4253	0.4253		6,714.4850	6,714.4850	0.1287	0.1231	6,754.3858
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000



Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market (24 Hour)	47.5178	5.1000e-004	4.6600e-003	3.9100e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5903	5.5903	1.1000e-004	1.0000e-004	5.6236
Discount Club	2876.31	0.0310	0.2820	0.2369	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.3897	338.3897	6.4900e-003	6.2000e-003	340.4006
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647
Fast Food Restaurant with Drive Thru	18841.1	0.2032	1.8472	1.5516	0.0111		0.1404	0.1404		0.1404	0.1404		2,216.5963	2,216.5963	0.0425	0.0406	2,229.7684
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	10709.7	0.1155	1.0500	0.8820	6.3000e-003		0.0798	0.0798		0.0798	0.0798		1,259.9645	1,259.9645	0.0242	0.0231	1,267.4519
Hardware/Paint Store	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2396.68	0.0259	0.2350	0.1974	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.9623	281.9623	5.4000e-003	5.1700e-003	283.6379
Hospital	80173.1	0.8646	7.8601	6.6025	0.0472		0.5974	0.5974		0.5974	0.5974		9,432.1251	9,432.1251	0.1808	0.1729	9,488.1755
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
Single Family Housing	125422	1.3526	11.5585	4.9185	0.0738		0.9345	0.9345		0.9345	0.9345		14,755.5425	14,755.5425	0.2828	0.2705	14,843.2273
Single Family Housing	151044	1.6289	13.9198	5.9233	0.0889		1.1254	1.1254		1.1254	1.1254		17,769.9367	17,769.9367	0.3406	0.3258	17,875.5345

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	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					
Strip Mall	1677.97	0.0181	0.1645	0.1382	9.9000e-004		0.0125	0.0125		0.0125	0.0125		197.4085	197.4085	3.7800e-003	3.6200e-003	198.5816
Strip Mall	2800.58	0.0302	0.2746	0.2306	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.4801	329.4801	6.3200e-003	6.0400e-003	331.4380
Strip Mall	3688.57	0.0398	0.3616	0.3038	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.9494	433.9494	8.3200e-003	7.9600e-003	436.5281
Supermarket	4495.45	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.8767	528.8767	0.0101	9.7000e-003	532.0196
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.2376</b>	<b>45.6367</b>	<b>25.4930</b>	<b>0.2857</b>		<b>3.6187</b>	<b>3.6187</b>		<b>3.6187</b>	<b>3.6187</b>		<b>57,137.3569</b>	<b>57,137.3569</b>	<b>1.0951</b>	<b>1.0475</b>	<b>57,476.8957</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.37086	0.0256	0.2185	0.0930	1.3900e-003		0.0177	0.0177		0.0177	0.0177		278.9244	278.9244	5.3500e-003	5.1100e-003	280.5819
Apartments Mid Rise	50.6652	0.5464	4.6692	1.9869	0.0298		0.3775	0.3775		0.3775	0.3775		5,960.6144	5,960.6144	0.1143	0.1093	5,996.0354
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0414163	4.5000e-004	4.0600e-003	3.4100e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8725	4.8725	9.0000e-005	9.0000e-005	4.9015
Discount Club	2.50698	0.0270	0.2458	0.2065	1.4700e-003		0.0187	0.0187		0.0187	0.0187		294.9391	294.9391	5.6500e-003	5.4100e-003	296.6918

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Elementary School	8.01185	0.0864	0.7855	0.6598	4.7100e-003		0.0597	0.0597		0.0597	0.0597		942.5705	942.5705	0.0181	0.0173	948.1717
Fast Food Restaurant with Drive Thru	17.8606	0.1926	1.7510	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2472	2,101.2472	0.0403	0.0385	2,113.7339
Gasoline/Service Station	0.264531	2.8500e-003	0.0259	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1212	31.1212	6.0000e-004	5.7000e-004	31.3062
Gasoline/Service Station	0.57315	6.1800e-003	0.0562	0.0472	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003		67.4294	67.4294	1.2900e-003	1.2400e-003	67.8301
General Office Building	9.13586	0.0985	0.8957	0.7524	5.3700e-003		0.0681	0.0681		0.0681	0.0681		1,074.8075	1,074.8075	0.0206	0.0197	1,081.1945
Hardware/Paint Store	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
High School	8.90205	0.0960	0.8728	0.7331	5.2400e-003		0.0663	0.0663		0.0663	0.0663		1,047.3006	1,047.3006	0.0201	0.0192	1,053.5242
Home Improvement Superstore	2.08894	0.0225	0.2048	0.1720	1.2300e-003		0.0156	0.0156		0.0156	0.0156		245.7572	245.7572	4.7100e-003	4.5100e-003	247.2176
Hospital	69.5149	0.7497	6.8152	5.7248	0.0409		0.5180	0.5180		0.5180	0.5180		8,178.2266	8,178.2266	0.1568	0.1499	8,226.8257
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
Single Family Housing	108.004	1.1648	9.9533	4.2354	0.0635		0.8047	0.8047		0.8047	0.8047		12,706.3098	12,706.3098	0.2435	0.2330	12,781.8170
Single Family Housing	130.068	1.4027	11.9866	5.1007	0.0765		0.9691	0.9691		0.9691	0.9691		15,302.0683	15,302.0683	0.2933	0.2805	15,393.0009
Strip Mall	1.46251	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0605	172.0605	3.3000e-003	3.1500e-003	173.0830
Strip Mall	2.44097	0.0263	0.2393	0.2010	1.4400e-003		0.0182	0.0182		0.0182	0.0182		287.1735	287.1735	5.5000e-003	5.2600e-003	288.8800

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	3.21494	0.0347	0.3152	0.2648	1.8900e-003		0.0240	0.0240		0.0240	0.0240		378.2285	378.2285	7.2500e-003	6.9300e-003	380.4762
Supermarket	4.05598	0.0437	0.3976	0.3340	2.3900e-003		0.0302	0.0302		0.0302	0.0302		477.1738	477.1738	9.1500e-003	8.7500e-003	480.0094
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.5512</b>	<b>39.6619</b>	<b>22.1969</b>	<b>0.2483</b>		<b>3.1444</b>	<b>3.1444</b>		<b>3.1444</b>	<b>3.1444</b>		<b>49,649.1888</b>	<b>49,649.1888</b>	<b>0.9516</b>	<b>0.9102</b>	<b>49,944.2291</b>

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674
Unmitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.70 59	86,724.70 59	1.6622	1.5900	87,240.06 75
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.60 21</b>	<b>87,638.60 21</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.76 74</b>

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.70 59	86,724.70 59	1.6622	1.5900	87,240.06 75
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.60 21</b>	<b>87,638.60 21</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.76 74</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX F-2**  
**ORIGINAL PROJECT PEAK DAILY WINTER OPERATIONAL**  
**EMISSIONS – PROJECT-RELATED VMT**

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Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	298.40	1000sqft	8.22	298,400.00	0
Hospital	433.40	1000sqft	11.94	433,400.00	0
Office Park	0.00	1000sqft	0.00	0.00	0
Pharmacy/Drugstore with Drive Thru	32.30	1000sqft	1.20	32,300.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,123.00	0
Parking Lot	465.20	1000sqft	10.68	465,200.00	0
Parking Lot	386.80	1000sqft	8.88	386,800.00	0
Parking Lot	154.20	1000sqft	3.54	154,200.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	94.10	1000sqft	2.16	94,100.00	0
Parking Lot	271.80	1000sqft	6.24	271,800.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	452.00	1000sqft	10.38	452,000.00	0
Parking Lot	341.50	1000sqft	7.84	341,500.00	0

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Parking Lot	173.40	1000sqft	3.98	173,400.00	0
Parking Lot	238.70	1000sqft	5.48	238,700.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Unenclosed Parking with Elevator	173.40	1000sqft	3.98	173,400.00	0
Unenclosed Parking with Elevator	0.00	1000sqft	0.00	0.00	0
City Park	39.20	Acre	39.20	1,707,552.00	0
City Park	39.10	Acre	39.10	1,703,196.00	0
Fast Food Restaurant with Drive Thru	38.70	1000sqft	1.44	38,700.00	0
Apartments Mid Rise	2,137.00	Dwelling Unit	85.00	2,137,000.00	5706
Apartments Mid Rise	100.00	Dwelling Unit	11.76	178,600.00	267
Single Family Housing	2,134.00	Dwelling Unit	355.70	3,841,200.00	5698
Single Family Housing	1,772.00	Dwelling Unit	136.30	3,189,600.00	4731
Convenience Market (24 Hour)	3.20	1000sqft	0.12	3,200.00	0
Discount Club	193.70	1000sqft	7.12	193,700.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.12	3,000.00	0
Hardware/Paint Store	32.30	1000sqft	1.20	32,300.00	0
Home Improvement Superstore	161.40	1000sqft	5.92	161,400.00	0
Strip Mall	113.00	1000sqft	4.16	113,000.00	0
Strip Mall	188.60	1000sqft	6.92	188,600.00	0
Strip Mall	248.40	1000sqft	0.00	248,400.00	0
Supermarket	64.60	1000sqft	2.36	64,600.00	0

1.2 Other Project Characteristics

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	236.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O intensity SMUD default.

Land Use - Non-default from Project Description. Mixed Use Retail lot acreage set to 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Vehicle Trips - Trip frequencies and lengths adjusted to match Traffic Study.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,181,312.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,543,935.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,148.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	6,308,820.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	18,926,460.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00

## Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,237.00
tblFireplaces	NumberGas	0.00	3,906.00
tblFireplaces	NumberNoFireplace	2,237.00	0.00
tblFireplaces	NumberNoFireplace	3,906.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,123.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	6.85	8.22
tblLandUse	LotAcreage	9.95	11.94
tblLandUse	LotAcreage	0.74	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.89	1.44
tblLandUse	LotAcreage	56.24	85.00
tblLandUse	LotAcreage	2.63	11.76
tblLandUse	LotAcreage	692.86	355.70
tblLandUse	LotAcreage	575.32	136.30





Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

tblVehicleTrips	CNW_TL	6.50	4.00
tblVehicleTrips	CNW_TL	6.50	4.00
tblVehicleTrips	CNW_TL	6.50	4.00
tblVehicleTrips	CNW_TL	6.50	4.00
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
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tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	CW_TL	10.00	6.10
tblVehicleTrips	HO_TL	6.50	4.00
tblVehicleTrips	HO_TL	6.50	4.00
tblVehicleTrips	HS_TL	5.00	3.00
tblVehicleTrips	HS_TL	5.00	3.00

## Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

tblVehicleTrips	HW_TL	10.00	6.10
tblVehicleTrips	HW_TL	10.00	6.10
tblVehicleTrips	ST_TR	6.39	5.30
tblVehicleTrips	ST_TR	22.75	19.00
tblVehicleTrips	ST_TR	863.10	718.00
tblVehicleTrips	ST_TR	2.46	2.10
tblVehicleTrips	ST_TR	4.37	3.60
tblVehicleTrips	ST_TR	46.55	38.90
tblVehicleTrips	ST_TR	1.64	1.30
tblVehicleTrips	ST_TR	9.91	8.30
tblVehicleTrips	ST_TR	42.04	35.00
tblVehicleTrips	ST_TR	177.59	145.00
tblVehicleTrips	SU_TR	5.86	4.80
tblVehicleTrips	SU_TR	16.74	13.90
tblVehicleTrips	SU_TR	758.45	631.00
tblVehicleTrips	SU_TR	1.05	0.80
tblVehicleTrips	SU_TR	1.79	1.50
tblVehicleTrips	SU_TR	25.49	21.20
tblVehicleTrips	SU_TR	0.76	0.60
tblVehicleTrips	SU_TR	8.62	7.30
tblVehicleTrips	SU_TR	20.43	17.10
tblVehicleTrips	SU_TR	166.44	138.60
tblVehicleTrips	WD_TR	6.65	5.50
tblVehicleTrips	WD_TR	1.89	1.50
tblVehicleTrips	WD_TR	737.99	614.00
tblVehicleTrips	WD_TR	15.43	12.90
tblVehicleTrips	WD_TR	11.03	9.10





Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.35 69	57,137.35 69	1.0951	1.0475	57,476.89 57
Mobile	85.0832	501.6894	773.3935	2.7540	305.0645	1.6367	306.7013	81.4475	1.5190	82.9666		281,488.9 294	281,488.9 294	14.0942		281,841.2 843
<b>Total</b>	<b>403.8083</b>	<b>621.0926</b>	<b>1,333.439 9</b>	<b>3.5001</b>	<b>305.0645</b>	<b>13.5607</b>	<b>318.6252</b>	<b>81.4475</b>	<b>13.4430</b>	<b>94.8905</b>	<b>0.0000</b>	<b>426,264.8 884</b>	<b>426,264.8 884</b>	<b>17.7237</b>	<b>2.6375</b>	<b>427,493.9 474</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.18 88	49,649.18 88	0.9516	0.9102	49,944.22 91
Mobile	85.0832	501.6894	773.3935	2.7540	305.0645	1.6367	306.7013	81.4475	1.5190	82.9666		281,488.9 294	281,488.9 294	14.0942		281,841.2 843
<b>Total</b>	<b>403.1219</b>	<b>615.1178</b>	<b>1,330.143 8</b>	<b>3.4627</b>	<b>305.0645</b>	<b>13.0865</b>	<b>318.1510</b>	<b>81.4475</b>	<b>12.9688</b>	<b>94.4163</b>	<b>0.0000</b>	<b>418,776.7 203</b>	<b>418,776.7 203</b>	<b>17.5802</b>	<b>2.5002</b>	<b>419,961.2 808</b>

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.17	0.96	0.25	1.07	0.00	3.50	0.15	0.00	3.53	0.50	0.00	1.76	1.76	0.81	5.20	1.76

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 84.62

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	85.0832	501.6894	773.3935	2.7540	305.0645	1.6367	306.7013	81.4475	1.5190	82.9666		281,488.9294	281,488.9294	14.0942		281,841.2843
Unmitigated	85.0832	501.6894	773.3935	2.7540	305.0645	1.6367	306.7013	81.4475	1.5190	82.9666		281,488.9294	281,488.9294	14.0942		281,841.2843



Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,130.19	3,130.19	3130.19	1,664,400	1,664,400
Single Family Housing	16,858.60	17,712.20	15578.20	26,344,881	26,344,881
Single Family Housing	13,998.80	14,707.60	12935.60	21,875,881	21,875,881
Strip Mall	4,181.00	3,955.00	1932.30	2,859,584	2,859,584
Strip Mall	6,978.20	6,601.00	3225.06	4,772,722	4,772,722
Strip Mall	9,190.80	8,694.00	4247.64	6,286,024	6,286,024
Supermarket	5,491.00	9,367.00	8953.56	3,435,940	3,435,940
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>134,287.76</b>	<b>148,057.31</b>	<b>119,208.02</b>	<b>126,596,742</b>	<b>126,596,742</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	6.10	3.00	4.00	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	6.10	3.00	4.00	46.50	12.50	41.00	86	11	3
City Park	6.10	3.00	4.00	33.00	48.00	19.00	66	28	6
City Park	6.10	3.00	4.00	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	6.10	3.00	4.00	0.90	80.10	19.00	24	15	61
Discount Club	6.10	3.00	4.00	16.70	64.30	19.00	45	40	15
Elementary School	6.10	3.00	4.00	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	6.10	3.00	4.00	2.20	78.80	19.00	29	21	50
Gasoline/Service Station	6.10	3.00	4.00	2.00	79.00	19.00	14	27	59
Gasoline/Service Station	6.10	3.00	4.00	2.00	79.00	19.00	14	27	59
General Office Building	6.10	3.00	4.00	33.00	48.00	19.00	77	19	4
Hardware/Paint Store	6.10	3.00	4.00	13.60	67.40	19.00	45	29	26
High School	6.10	3.00	4.00	77.80	17.20	5.00	75	19	6
Home Improvement Superstore	6.10	3.00	4.00	23.40	57.60	19.00	32	20	48
Hospital	6.10	3.00	4.00	64.90	16.10	19.00	73	25	2

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

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
Library	6.10	3.00	4.00	52.00	43.00	5.00	44	44	12
Office Park	6.10	3.00	4.00	33.00	48.00	19.00	82	15	3
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Parking Lot	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	6.10	3.00	4.00	7.50	73.50	19.00	38	13	49
Single Family Housing	6.10	3.00	4.00	46.50	12.50	41.00	86	11	3
Single Family Housing	6.10	3.00	4.00	46.50	12.50	41.00	86	11	3
Strip Mall	6.10	3.00	4.00	16.60	64.40	19.00	45	40	15
Strip Mall	6.10	3.00	4.00	16.60	64.40	19.00	45	40	15
Strip Mall	6.10	3.00	4.00	16.60	64.40	19.00	45	40	15
Supermarket	6.10	3.00	4.00	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0
User Defined Industrial	6.10	3.00	4.00	0.00	0.00	0.00	0	0	0



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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hospital	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Office Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Unenclosed Parking with Elevator	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.1888	49,649.1888	0.9516	0.9102	49,944.2291
NaturalGas Unmitigated	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.3569	57,137.3569	1.0951	1.0475	57,476.8957

**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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	57073.1	0.6155	5.2597	2.2382	0.0336		0.4253	0.4253		0.4253	0.4253		6,714.4850	6,714.4850	0.1287	0.1231	6,754.3858
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market (24 Hour)	47.5178	5.1000e-004	4.6600e-003	3.9100e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5903	5.5903	1.1000e-004	1.0000e-004	5.6236
Discount Club	2876.31	0.0310	0.2820	0.2369	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.3897	338.3897	6.4900e-003	6.2000e-003	340.4006
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647
Fast Food Restaurant with Drive Thru	18841.1	0.2032	1.8472	1.5516	0.0111		0.1404	0.1404		0.1404	0.1404		2,216.5963	2,216.5963	0.0425	0.0406	2,229.7684
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	10709.7	0.1155	1.0500	0.8820	6.3000e-003		0.0798	0.0798		0.0798	0.0798		1,259.9645	1,259.9645	0.0242	0.0231	1,267.4519
Hardware/Paint Store	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2396.68	0.0259	0.2350	0.1974	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.9623	281.9623	5.4000e-003	5.1700e-003	283.6379
Hospital	80173.1	0.8646	7.8601	6.6025	0.0472		0.5974	0.5974		0.5974	0.5974		9,432.1251	9,432.1251	0.1808	0.1729	9,488.1755
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
Single Family Housing	125422	1.3526	11.5585	4.9185	0.0738		0.9345	0.9345		0.9345	0.9345		14,755.5425	14,755.5425	0.2828	0.2705	14,843.2273
Single Family Housing	151044	1.6289	13.9198	5.9233	0.0889		1.1254	1.1254		1.1254	1.1254		17,769.9367	17,769.9367	0.3406	0.3258	17,875.5345

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	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					
Strip Mall	1677.97	0.0181	0.1645	0.1382	9.9000e-004		0.0125	0.0125		0.0125	0.0125		197.4085	197.4085	3.7800e-003	3.6200e-003	198.5816
Strip Mall	2800.58	0.0302	0.2746	0.2306	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.4801	329.4801	6.3200e-003	6.0400e-003	331.4380
Strip Mall	3688.57	0.0398	0.3616	0.3038	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.9494	433.9494	8.3200e-003	7.9600e-003	436.5281
Supermarket	4495.45	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.8767	528.8767	0.0101	9.7000e-003	532.0196
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.2376</b>	<b>45.6367</b>	<b>25.4930</b>	<b>0.2857</b>		<b>3.6187</b>	<b>3.6187</b>		<b>3.6187</b>	<b>3.6187</b>		<b>57,137.3569</b>	<b>57,137.3569</b>	<b>1.0951</b>	<b>1.0475</b>	<b>57,476.8957</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.37086	0.0256	0.2185	0.0930	1.3900e-003		0.0177	0.0177		0.0177	0.0177		278.9244	278.9244	5.3500e-003	5.1100e-003	280.5819
Apartments Mid Rise	50.6652	0.5464	4.6692	1.9869	0.0298		0.3775	0.3775		0.3775	0.3775		5,960.6144	5,960.6144	0.1143	0.1093	5,996.0354
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0414163	4.5000e-004	4.0600e-003	3.4100e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8725	4.8725	9.0000e-005	9.0000e-005	4.9015
Discount Club	2.50698	0.0270	0.2458	0.2065	1.4700e-003		0.0187	0.0187		0.0187	0.0187		294.9391	294.9391	5.6500e-003	5.4100e-003	296.6918

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Elementary School	8.01185	0.0864	0.7855	0.6598	4.7100e-003		0.0597	0.0597		0.0597	0.0597		942.5705	942.5705	0.0181	0.0173	948.1717
Fast Food Restaurant with Drive Thru	17.8606	0.1926	1.7510	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2472	2,101.2472	0.0403	0.0385	2,113.7339
Gasoline/Service Station	0.264531	2.8500e-003	0.0259	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1212	31.1212	6.0000e-004	5.7000e-004	31.3062
Gasoline/Service Station	0.57315	6.1800e-003	0.0562	0.0472	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003		67.4294	67.4294	1.2900e-003	1.2400e-003	67.8301
General Office Building	9.13586	0.0985	0.8957	0.7524	5.3700e-003		0.0681	0.0681		0.0681	0.0681		1,074.8075	1,074.8075	0.0206	0.0197	1,081.1945
Hardware/Paint Store	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
High School	8.90205	0.0960	0.8728	0.7331	5.2400e-003		0.0663	0.0663		0.0663	0.0663		1,047.3006	1,047.3006	0.0201	0.0192	1,053.5242
Home Improvement Superstore	2.08894	0.0225	0.2048	0.1720	1.2300e-003		0.0156	0.0156		0.0156	0.0156		245.7572	245.7572	4.7100e-003	4.5100e-003	247.2176
Hospital	69.5149	0.7497	6.8152	5.7248	0.0409		0.5180	0.5180		0.5180	0.5180		8,178.2266	8,178.2266	0.1568	0.1499	8,226.8257
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
Single Family Housing	108.004	1.1648	9.9533	4.2354	0.0635		0.8047	0.8047		0.8047	0.8047		12,706.3098	12,706.3098	0.2435	0.2330	12,781.8170
Single Family Housing	130.068	1.4027	11.9866	5.1007	0.0765		0.9691	0.9691		0.9691	0.9691		15,302.0683	15,302.0683	0.2933	0.2805	15,393.0009
Strip Mall	1.46251	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0605	172.0605	3.3000e-003	3.1500e-003	173.0830
Strip Mall	2.44097	0.0263	0.2393	0.2010	1.4400e-003		0.0182	0.0182		0.0182	0.0182		287.1735	287.1735	5.5000e-003	5.2600e-003	288.8800

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	3.21494	0.0347	0.3152	0.2648	1.8900e-003		0.0240	0.0240		0.0240	0.0240		378.2285	378.2285	7.2500e-003	6.9300e-003	380.4762
Supermarket	4.05598	0.0437	0.3976	0.3340	2.3900e-003		0.0302	0.0302		0.0302	0.0302		477.1738	477.1738	9.1500e-003	8.7500e-003	480.0094
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.5512</b>	<b>39.6619</b>	<b>22.1969</b>	<b>0.2483</b>		<b>3.1444</b>	<b>3.1444</b>		<b>3.1444</b>	<b>3.1444</b>		<b>49,649.1888</b>	<b>49,649.1888</b>	<b>0.9516</b>	<b>0.9102</b>	<b>49,944.2291</b>

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674
Unmitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.70 59	86,724.70 59	1.6622	1.5900	87,240.06 75
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.60 21</b>	<b>87,638.60 21</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.76 74</b>

Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.70 59	86,724.70 59	1.6622	1.5900	87,240.06 75
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.60 21</b>	<b>87,638.60 21</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.76 74</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Jackson CEQA Original Project Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX F-3**  
**ALTERNATIVE 2 PEAK DAILY SUMMER OPERATIONAL**  
**EMISSIONS – PROJECT-RELATED VMT**

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## Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Summer**

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	766.60	1000sqft	21.36	766,600.00	0
Pharmacy/Drugstore with Drive Thru	32.50	1000sqft	1.20	32,500.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,213.00	0
Parking Lot	468.30	1000sqft	10.75	468,300.00	0
Parking Lot	390.30	1000sqft	8.96	390,300.00	0
Parking Lot	156.80	1000sqft	3.60	156,800.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	93.70	1000sqft	2.15	93,700.00	0
Parking Lot	273.10	1000sqft	6.27	273,100.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.40	1000sqft	0.17	7,400.00	0
Parking Lot	416.00	1000sqft	9.55	416,000.00	0
Parking Lot	343.20	1000sqft	7.88	343,200.00	0
Parking Lot	613.30	1000sqft	14.08	613,300.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
City Park	40.60	Acre	40.60	1,768,536.00	0
City Park	38.20	Acre	38.20	1,663,992.00	0
Fast Food Restaurant with Drive Thru	39.00	1000sqft	1.43	39,000.00	0
Apartments Mid Rise	2,050.00	Dwelling Unit	82.00	2,050,000.00	5474
Apartments Mid Rise	100.00	Dwelling Unit	11.82	178,600.00	267
Single Family Housing	3,540.00	Dwelling Unit	507.10	6,372,000.00	9452
Convenience Market (24 Hour)	3.30	1000sqft	0.12	3,300.00	0
Discount Club	195.00	1000sqft	7.16	195,000.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.11	3,000.00	0
Hardware/Paint Store	32.50	1000sqft	1.20	32,500.00	0
Home Improvement Superstore	162.50	1000sqft	5.97	162,500.00	0
Strip Mall	113.80	1000sqft	4.18	113,800.00	0
Strip Mall	173.40	1000sqft	6.37	173,400.00	0
Strip Mall	250.40	1000sqft	0.00	250,400.00	0
Supermarket	65.00	1000sqft	2.40	65,000.00	0

1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	236.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

1.3 User Entered Comments & Non-Default Data

## Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O are default for SMUD.

Land Use - Land use and acreages per Applicant. Acreage for Multi-use shopping entered as 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Vehicle Trips - Trip frequencies and lengths adjusted to match Traffic Study.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,194,357.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,583,070.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,292.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	5,805,405.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	17,416,215.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00

## Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,150.00
tblFireplaces	NumberGas	0.00	3,540.00
tblFireplaces	NumberNoFireplace	2,150.00	0.00
tblFireplaces	NumberNoFireplace	3,540.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,213.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	17.60	21.36
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.90	1.43
tblLandUse	LotAcreage	2.63	11.82
tblLandUse	LotAcreage	53.95	82.00
tblLandUse	LotAcreage	1,149.35	507.10
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	4.48	7.16
tblLandUse	LotAcreage	0.08	0.11
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	3.73	5.97
tblLandUse	LotAcreage	2.61	4.18
tblLandUse	LotAcreage	3.98	6.37
tblLandUse	LotAcreage	5.75	0.00







## Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblVehicleTrips	CW_TL	10.00	6.20
tblVehicleTrips	CW_TL	10.00	6.20
tblVehicleTrips	CW_TL	10.00	6.20
tblVehicleTrips	CW_TL	10.00	6.20
tblVehicleTrips	CW_TL	10.00	6.20
tblVehicleTrips	HO_TL	6.50	4.11
tblVehicleTrips	HO_TL	6.50	4.11
tblVehicleTrips	HS_TL	5.00	3.15
tblVehicleTrips	HS_TL	5.00	3.15
tblVehicleTrips	HW_TL	10.00	6.20
tblVehicleTrips	HW_TL	10.00	6.20
tblVehicleTrips	ST_TR	6.39	4.70
tblVehicleTrips	ST_TR	22.75	17.10
tblVehicleTrips	ST_TR	863.10	645.00
tblVehicleTrips	ST_TR	2.46	1.90
tblVehicleTrips	ST_TR	4.37	3.20
tblVehicleTrips	ST_TR	46.55	34.80
tblVehicleTrips	ST_TR	9.91	7.40
tblVehicleTrips	ST_TR	42.04	31.40
tblVehicleTrips	ST_TR	177.59	132.90
tblVehicleTrips	SU_TR	5.86	4.40
tblVehicleTrips	SU_TR	16.74	12.50
tblVehicleTrips	SU_TR	758.45	567.00
tblVehicleTrips	SU_TR	1.05	0.70
tblVehicleTrips	SU_TR	1.79	1.40
tblVehicleTrips	SU_TR	25.49	19.00
tblVehicleTrips	SU_TR	8.62	6.50



Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Energy	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.96 39	46,364.96 39	0.8887	0.8500	46,640.48 77
Mobile	116.7489	448.2533	680.4044	2.6975	270.1317	1.4465	271.5782	72.1210	1.3420	73.4630		275,518.0 270	275,518.0 270	11.8740		275,814.8 774
<b>Total</b>	<b>412.6061</b>	<b>533.8322</b>	<b>1,186.427 9</b>	<b>3.2308</b>	<b>270.1317</b>	<b>10.4933</b>	<b>280.6250</b>	<b>72.1210</b>	<b>10.3888</b>	<b>82.5098</b>	<b>0.0000</b>	<b>378,070.7 758</b>	<b>378,070.7 758</b>	<b>14.6315</b>	<b>1.8646</b>	<b>378,992.2 175</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Energy	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.49 24	40,647.49 24	0.7791	0.7452	40,889.04 01
Mobile	116.7489	448.2533	680.4044	2.6975	270.1317	1.4465	271.5782	72.1210	1.3420	73.4630		275,518.0 270	275,518.0 270	11.8740		275,814.8 774
<b>Total</b>	<b>412.0820</b>	<b>529.2961</b>	<b>1,184.101 5</b>	<b>3.2022</b>	<b>270.1317</b>	<b>10.1312</b>	<b>280.2629</b>	<b>72.1210</b>	<b>10.0267</b>	<b>82.1477</b>	<b>0.0000</b>	<b>372,353.3 042</b>	<b>372,353.3 042</b>	<b>14.5219</b>	<b>1.7598</b>	<b>373,240.7 699</b>

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.13	0.85	0.20	0.88	0.00	3.45	0.13	0.00	3.49	0.44	0.00	1.51	1.51	0.75	5.62	1.52

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 84.67

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	116.7489	448.2533	680.4044	2.6975	270.1317	1.4465	271.5782	72.1210	1.3420	73.4630		275,518.0 270	275,518.0 270	11.8740		275,814.8 774
Unmitigated	116.7489	448.2533	680.4044	2.6975	270.1317	1.4465	271.5782	72.1210	1.3420	73.4630		275,518.0 270	275,518.0 270	11.8740		275,814.8 774

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	10,250.00	9,635.00	9020.00	16,018,408	16,018,408
Apartments Mid Rise	500.00	470.00	440.00	781,386	781,386
City Park	56.84	694.26	507.50	245,208	245,208
City Park	53.48	653.22	477.50	230,713	230,713
Convenience Market (24 Hour)	1,821.60	2,128.50	1871.10	677,068	677,068
Discount Club	8,151.00	10,481.25	6565.65	6,396,014	6,396,014
Elementary School	2,610.00	0.00	0.00	2,442,618	2,442,618
Fast Food Restaurant with Drive Thru	19,348.68	28,159.17	21166.08	9,223,519	9,223,519
Gasoline/Service Station	8,090.88	8,090.88	8090.88	2,247,481	2,247,481
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,123,740	1,123,740
General Office Building	6,286.12	1,456.54	536.62	6,171,852	6,171,852
Hardware/Paint Store	1,666.93	2,681.90	2231.13	1,366,673	1,366,673
High School	2,400.00	800.00	350.00	3,042,084	3,042,084
Home Improvement Superstore	4,995.25	9,217.00	9067.50	3,475,697	3,475,697
Library	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,149.58	3,149.58	3149.58	1,740,275	1,740,275
Single Family Housing	26,196.00	26,196.00	23010.00	41,288,789	41,288,789





Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

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
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	6.20	3.15	4.11	7.50	73.50	19.00	38	13	49
Single Family Housing	6.20	3.15	4.11	46.50	12.50	41.00	86	11	3
Strip Mall	6.20	3.15	4.11	16.60	64.40	19.00	45	40	15
Strip Mall	6.20	3.15	4.11	16.60	64.40	19.00	45	40	15
Strip Mall	6.20	3.15	4.11	16.60	64.40	19.00	45	40	15
Supermarket	6.20	3.15	4.11	6.50	74.50	19.00	34	30	36
User Defined Industrial	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.4924	40,647.4924	0.7791	0.7452	40,889.0401
NaturalGas Unmitigated	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.9639	46,364.9639	0.8887	0.8500	46,640.4877

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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	54749.6	0.5904	5.0456	2.1470	0.0322		0.4079	0.4079		0.4079	0.4079		6,441.1297	6,441.1297	0.1235	0.1181	6,479.4062
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	49.0027	5.3000e-004	4.8000e-003	4.0400e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.7650	5.7650	1.1000e-004	1.1000e-004	5.7993
Discount Club	2895.62	0.0312	0.2839	0.2385	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.6608	340.6608	6.5300e-003	6.2500e-003	342.6851
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	18987.1	0.2048	1.8615	1.5637	0.0112		0.1415	0.1415		0.1415	0.1415		2,233.7792	2,233.7792	0.0428	0.0410	2,247.0534
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	27513.6	0.2967	2.6974	2.2658	0.0162		0.2050	0.2050		0.2050	0.2050		3,236.8928	3,236.8928	0.0620	0.0593	3,256.1281
Hardware/Paint Store	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2413.01	0.0260	0.2366	0.1987	1.4200e-003		0.0180	0.0180		0.0180	0.0180		283.8840	283.8840	5.4400e-003	5.2000e-003	285.5710
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
Single Family Housing	250561	2.7021	23.0909	9.8259	0.1474		1.8669	1.8669		1.8669	1.8669		29,477.7768	29,477.7768	0.5650	0.5404	29,652.9485
Strip Mall	1689.85	0.0182	0.1657	0.1392	9.9000e-004		0.0126	0.0126		0.0126	0.0126		198.8061	198.8061	3.8100e-003	3.6400e-003	199.9875
Strip Mall	2574.87	0.0278	0.2524	0.2121	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.9260	302.9260	5.8100e-003	5.5500e-003	304.7262
Strip Mall	3718.27	0.0401	0.3645	0.3062	2.1900e-003		0.0277	0.0277		0.0277	0.0277		437.4434	437.4434	8.3800e-003	8.0200e-003	440.0429
Supermarket	4523.29	0.0488	0.4435	0.3725	2.6600e-003		0.0337	0.0337		0.0337	0.0337		532.1515	532.1515	0.0102	9.7600e-003	535.3138
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.2501</b>	<b>36.8258</b>	<b>19.1700</b>	<b>0.2318</b>		<b>2.9365</b>	<b>2.9365</b>		<b>2.9365</b>	<b>2.9365</b>		<b>46,364.9639</b>	<b>46,364.9639</b>	<b>0.8887</b>	<b>0.8500</b>	<b>46,640.4877</b>

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.38827	0.0258	0.2201	0.0937	1.4000e-003		0.0178	0.0178		0.0178	0.0178		280.9727	280.9727	5.3900e-003	5.1500e-003	282.6424
Apartments Mid Rise	48.9595	0.5280	4.5120	1.9200	0.0288		0.3648	0.3648		0.3648	0.3648		5,759.9413	5,759.9413	0.1104	0.1056	5,794.1697
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0430759	4.6000e-004	4.2200e-003	3.5500e-003	3.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		5.0678	5.0678	1.0000e-004	9.0000e-005	5.0979
Discount Club	2.5454	0.0275	0.2496	0.2096	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.4584	299.4584	5.7400e-003	5.4900e-003	301.2379
Elementary School	8.09285	0.0873	0.7934	0.6665	4.7600e-003		0.0603	0.0603		0.0603	0.0603		952.0999	952.0999	0.0183	0.0175	957.7578
Fast Food Restaurant with Drive Thru	18.0564	0.1947	1.7702	1.4870	0.0106		0.1345	0.1345		0.1345	0.1345		2,124.2856	2,124.2856	0.0407	0.0390	2,136.9091
Gasoline/Service Station	0.266261	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.3248	31.3248	6.0000e-004	5.7000e-004	31.5109
Gasoline/Service Station	0.576898	6.2200e-003	0.0566	0.0475	3.4000e-004		4.3000e-003	4.3000e-003		4.3000e-003	4.3000e-003		67.8704	67.8704	1.3000e-003	1.2400e-003	68.2737
General Office Building	23.7051	0.2556	2.3240	1.9522	0.0139		0.1766	0.1766		0.1766	0.1766		2,788.8377	2,788.8377	0.0535	0.0511	2,805.4103
Hardware/Paint Store	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
High School	8.99205	0.0970	0.8816	0.7405	5.2900e-003		0.0670	0.0670		0.0670	0.0670		1,057.8888	1,057.8888	0.0203	0.0194	1,064.1753
Home Improvement Superstore	2.12116	0.0229	0.2080	0.1747	1.2500e-003		0.0158	0.0158		0.0158	0.0158		249.5487	249.5487	4.7800e-003	4.5800e-003	251.0316
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Pharmacy/Drugstore with Drive Thru	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
Single Family Housing	217.784	2.3487	20.0703	8.5406	0.1281		1.6227	1.6227		1.6227	1.6227		25,621.6440	25,621.6440	0.4911	0.4697	25,773.9006
Strip Mall	1.48547	0.0160	0.1456	0.1223	8.7000e-004		0.0111	0.0111		0.0111	0.0111		174.7609	174.7609	3.3500e-003	3.2000e-003	175.7994
Strip Mall	2.26344	0.0244	0.2219	0.1864	1.3300e-003		0.0169	0.0169		0.0169	0.0169		266.2876	266.2876	5.1000e-003	4.8800e-003	267.8700
Strip Mall	3.26855	0.0353	0.3205	0.2692	1.9200e-003		0.0244	0.0244		0.0244	0.0244		384.5353	384.5353	7.3700e-003	7.0500e-003	386.8204
Supermarket	4.10677	0.0443	0.4026	0.3382	2.4200e-003		0.0306	0.0306		0.0306	0.0306		483.1491	483.1491	9.2600e-003	8.8600e-003	486.0203
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.7260</b>	<b>32.2898</b>	<b>16.8436</b>	<b>0.2032</b>		<b>2.5743</b>	<b>2.5743</b>		<b>2.5743</b>	<b>2.5743</b>		<b>40,647.4924</b>	<b>40,647.4924</b>	<b>0.7791</b>	<b>0.7452</b>	<b>40,889.0401</b>

6.0 Area Detail

6.1 Mitigation Measures Area

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Unmitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24

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	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.17 65	55,341.17 65	1.0607	1.0146	55,670.04 14
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.78 48</b>	<b>56,187.78 48</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.85 24</b>

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.1765	55,341.1765	1.0607	1.0146	55,670.0414
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.7848</b>	<b>56,187.7848</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.8524</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX F-4**  
**ALTERNATIVE 2 PEAK DAILY WINTER OPERATIONAL**  
**EMISSIONS – PROJECT-RELATED VMT**

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Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	766.60	1000sqft	21.36	766,600.00	0
Pharmacy/Drugstore with Drive Thru	32.50	1000sqft	1.20	32,500.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,213.00	0
Parking Lot	468.30	1000sqft	10.75	468,300.00	0
Parking Lot	390.30	1000sqft	8.96	390,300.00	0
Parking Lot	156.80	1000sqft	3.60	156,800.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	93.70	1000sqft	2.15	93,700.00	0
Parking Lot	273.10	1000sqft	6.27	273,100.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.40	1000sqft	0.17	7,400.00	0
Parking Lot	416.00	1000sqft	9.55	416,000.00	0
Parking Lot	343.20	1000sqft	7.88	343,200.00	0
Parking Lot	613.30	1000sqft	14.08	613,300.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
City Park	40.60	Acre	40.60	1,768,536.00	0
City Park	38.20	Acre	38.20	1,663,992.00	0
Fast Food Restaurant with Drive Thru	39.00	1000sqft	1.43	39,000.00	0
Apartments Mid Rise	2,050.00	Dwelling Unit	82.00	2,050,000.00	5474
Apartments Mid Rise	100.00	Dwelling Unit	11.82	178,600.00	267
Single Family Housing	3,540.00	Dwelling Unit	507.10	6,372,000.00	9452
Convenience Market (24 Hour)	3.30	1000sqft	0.12	3,300.00	0
Discount Club	195.00	1000sqft	7.16	195,000.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.11	3,000.00	0
Hardware/Paint Store	32.50	1000sqft	1.20	32,500.00	0
Home Improvement Superstore	162.50	1000sqft	5.97	162,500.00	0
Strip Mall	113.80	1000sqft	4.18	113,800.00	0
Strip Mall	173.40	1000sqft	6.37	173,400.00	0
Strip Mall	250.40	1000sqft	0.00	250,400.00	0
Supermarket	65.00	1000sqft	2.40	65,000.00	0

1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	236.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

1.3 User Entered Comments & Non-Default Data

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O are default for SMUD.

Land Use - Land use and acreages per Applicant. Acreage for Multi-use shopping entered as 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Vehicle Trips - Trip frequencies and lengths adjusted to match Traffic Study.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,194,357.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,583,070.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,292.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	5,805,405.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	17,416,215.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00

## Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,150.00
tblFireplaces	NumberGas	0.00	3,540.00
tblFireplaces	NumberNoFireplace	2,150.00	0.00
tblFireplaces	NumberNoFireplace	3,540.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,213.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	17.60	21.36
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.90	1.43
tblLandUse	LotAcreage	2.63	11.82
tblLandUse	LotAcreage	53.95	82.00
tblLandUse	LotAcreage	1,149.35	507.10
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	4.48	7.16
tblLandUse	LotAcreage	0.08	0.11
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	3.73	5.97
tblLandUse	LotAcreage	2.61	4.18
tblLandUse	LotAcreage	3.98	6.37
tblLandUse	LotAcreage	5.75	0.00







## Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

tblVehicleTrips	CW_TL	10.00	6.20
tblVehicleTrips	CW_TL	10.00	6.20
tblVehicleTrips	CW_TL	10.00	6.20
tblVehicleTrips	CW_TL	10.00	6.20
tblVehicleTrips	CW_TL	10.00	6.20
tblVehicleTrips	HO_TL	6.50	4.11
tblVehicleTrips	HO_TL	6.50	4.11
tblVehicleTrips	HS_TL	5.00	3.15
tblVehicleTrips	HS_TL	5.00	3.15
tblVehicleTrips	HW_TL	10.00	6.20
tblVehicleTrips	HW_TL	10.00	6.20
tblVehicleTrips	ST_TR	6.39	4.70
tblVehicleTrips	ST_TR	22.75	17.10
tblVehicleTrips	ST_TR	863.10	645.00
tblVehicleTrips	ST_TR	2.46	1.90
tblVehicleTrips	ST_TR	4.37	3.20
tblVehicleTrips	ST_TR	46.55	34.80
tblVehicleTrips	ST_TR	9.91	7.40
tblVehicleTrips	ST_TR	42.04	31.40
tblVehicleTrips	ST_TR	177.59	132.90
tblVehicleTrips	SU_TR	5.86	4.40
tblVehicleTrips	SU_TR	16.74	12.50
tblVehicleTrips	SU_TR	758.45	567.00
tblVehicleTrips	SU_TR	1.05	0.70
tblVehicleTrips	SU_TR	1.79	1.40
tblVehicleTrips	SU_TR	25.49	19.00
tblVehicleTrips	SU_TR	8.62	6.50



Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Energy	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.96 39	46,364.96 39	0.8887	0.8500	46,640.48 77
Mobile	76.7842	453.0866	692.5430	2.4488	270.1317	1.4612	271.5929	72.1210	1.3560	73.4770		250,308.7 425	250,308.7 425	12.6337		250,624.5 860
<b>Total</b>	<b>372.6413</b>	<b>538.6655</b>	<b>1,198.566 5</b>	<b>2.9822</b>	<b>270.1317</b>	<b>10.5080</b>	<b>280.6397</b>	<b>72.1210</b>	<b>10.4029</b>	<b>82.5239</b>	<b>0.0000</b>	<b>352,861.4 912</b>	<b>352,861.4 912</b>	<b>15.3912</b>	<b>1.8646</b>	<b>353,801.9 262</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Energy	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.49 24	40,647.49 24	0.7791	0.7452	40,889.04 01
Mobile	76.7842	453.0866	692.5430	2.4488	270.1317	1.4612	271.5929	72.1210	1.3560	73.4770		250,308.7 425	250,308.7 425	12.6337		250,624.5 860
<b>Total</b>	<b>372.1172</b>	<b>534.1294</b>	<b>1,196.240 2</b>	<b>2.9536</b>	<b>270.1317</b>	<b>10.1459</b>	<b>280.2776</b>	<b>72.1210</b>	<b>10.0408</b>	<b>82.1618</b>	<b>0.0000</b>	<b>347,144.0 196</b>	<b>347,144.0 196</b>	<b>15.2816</b>	<b>1.7598</b>	<b>348,050.4 786</b>

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	0.84	0.19	0.96	0.00	3.45	0.13	0.00	3.48	0.44	0.00	1.62	1.62	0.71	5.62	1.63

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 84.67

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	76.7842	453.0866	692.5430	2.4488	270.1317	1.4612	271.5929	72.1210	1.3560	73.4770		250,308.7425	250,308.7425	12.6337		250,624.5860
Unmitigated	76.7842	453.0866	692.5430	2.4488	270.1317	1.4612	271.5929	72.1210	1.3560	73.4770		250,308.7425	250,308.7425	12.6337		250,624.5860

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	10,250.00	9,635.00	9020.00	16,018,408	16,018,408
Apartments Mid Rise	500.00	470.00	440.00	781,386	781,386
City Park	56.84	694.26	507.50	245,208	245,208
City Park	53.48	653.22	477.50	230,713	230,713
Convenience Market (24 Hour)	1,821.60	2,128.50	1871.10	677,068	677,068
Discount Club	8,151.00	10,481.25	6565.65	6,396,014	6,396,014
Elementary School	2,610.00	0.00	0.00	2,442,618	2,442,618
Fast Food Restaurant with Drive Thru	19,348.68	28,159.17	21166.08	9,223,519	9,223,519
Gasoline/Service Station	8,090.88	8,090.88	8090.88	2,247,481	2,247,481
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,123,740	1,123,740
General Office Building	6,286.12	1,456.54	536.62	6,171,852	6,171,852
Hardware/Paint Store	1,666.93	2,681.90	2231.13	1,366,673	1,366,673
High School	2,400.00	800.00	350.00	3,042,084	3,042,084
Home Improvement Superstore	4,995.25	9,217.00	9067.50	3,475,697	3,475,697
Library	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,149.58	3,149.58	3149.58	1,740,275	1,740,275
Single Family Housing	26,196.00	26,196.00	23010.00	41,288,789	41,288,789





Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

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
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Parking Lot	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	6.20	3.15	4.11	7.50	73.50	19.00	38	13	49
Single Family Housing	6.20	3.15	4.11	46.50	12.50	41.00	86	11	3
Strip Mall	6.20	3.15	4.11	16.60	64.40	19.00	45	40	15
Strip Mall	6.20	3.15	4.11	16.60	64.40	19.00	45	40	15
Strip Mall	6.20	3.15	4.11	16.60	64.40	19.00	45	40	15
Supermarket	6.20	3.15	4.11	6.50	74.50	19.00	34	30	36
User Defined Industrial	6.20	3.15	4.11	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.4924	40,647.4924	0.7791	0.7452	40,889.0401
NaturalGas Unmitigated	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.9639	46,364.9639	0.8887	0.8500	46,640.4877

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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	54749.6	0.5904	5.0456	2.1470	0.0322		0.4079	0.4079		0.4079	0.4079		6,441.1297	6,441.1297	0.1235	0.1181	6,479.4062
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	49.0027	5.3000e-004	4.8000e-003	4.0400e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.7650	5.7650	1.1000e-004	1.1000e-004	5.7993
Discount Club	2895.62	0.0312	0.2839	0.2385	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.6608	340.6608	6.5300e-003	6.2500e-003	342.6851
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	18987.1	0.2048	1.8615	1.5637	0.0112		0.1415	0.1415		0.1415	0.1415		2,233.7792	2,233.7792	0.0428	0.0410	2,247.0534
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	27513.6	0.2967	2.6974	2.2658	0.0162		0.2050	0.2050		0.2050	0.2050		3,236.8928	3,236.8928	0.0620	0.0593	3,256.1281
Hardware/Paint Store	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2413.01	0.0260	0.2366	0.1987	1.4200e-003		0.0180	0.0180		0.0180	0.0180		283.8840	283.8840	5.4400e-003	5.2000e-003	285.5710
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
Single Family Housing	250561	2.7021	23.0909	9.8259	0.1474		1.8669	1.8669		1.8669	1.8669		29,477.7768	29,477.7768	0.5650	0.5404	29,652.9485
Strip Mall	1689.85	0.0182	0.1657	0.1392	9.9000e-004		0.0126	0.0126		0.0126	0.0126		198.8061	198.8061	3.8100e-003	3.6400e-003	199.9875
Strip Mall	2574.87	0.0278	0.2524	0.2121	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.9260	302.9260	5.8100e-003	5.5500e-003	304.7262
Strip Mall	3718.27	0.0401	0.3645	0.3062	2.1900e-003		0.0277	0.0277		0.0277	0.0277		437.4434	437.4434	8.3800e-003	8.0200e-003	440.0429
Supermarket	4523.29	0.0488	0.4435	0.3725	2.6600e-003		0.0337	0.0337		0.0337	0.0337		532.1515	532.1515	0.0102	9.7600e-003	535.3138
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.2501</b>	<b>36.8258</b>	<b>19.1700</b>	<b>0.2318</b>		<b>2.9365</b>	<b>2.9365</b>		<b>2.9365</b>	<b>2.9365</b>		<b>46,364.9639</b>	<b>46,364.9639</b>	<b>0.8887</b>	<b>0.8500</b>	<b>46,640.4877</b>

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.38827	0.0258	0.2201	0.0937	1.4000e-003		0.0178	0.0178		0.0178	0.0178		280.9727	280.9727	5.3900e-003	5.1500e-003	282.6424
Apartments Mid Rise	48.9595	0.5280	4.5120	1.9200	0.0288		0.3648	0.3648		0.3648	0.3648		5,759.9413	5,759.9413	0.1104	0.1056	5,794.1697
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0430759	4.6000e-004	4.2200e-003	3.5500e-003	3.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		5.0678	5.0678	1.0000e-004	9.0000e-005	5.0979
Discount Club	2.5454	0.0275	0.2496	0.2096	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.4584	299.4584	5.7400e-003	5.4900e-003	301.2379
Elementary School	8.09285	0.0873	0.7934	0.6665	4.7600e-003		0.0603	0.0603		0.0603	0.0603		952.0999	952.0999	0.0183	0.0175	957.7578
Fast Food Restaurant with Drive Thru	18.0564	0.1947	1.7702	1.4870	0.0106		0.1345	0.1345		0.1345	0.1345		2,124.2856	2,124.2856	0.0407	0.0390	2,136.9091
Gasoline/Service Station	0.266261	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.3248	31.3248	6.0000e-004	5.7000e-004	31.5109
Gasoline/Service Station	0.576898	6.2200e-003	0.0566	0.0475	3.4000e-004		4.3000e-003	4.3000e-003		4.3000e-003	4.3000e-003		67.8704	67.8704	1.3000e-003	1.2400e-003	68.2737
General Office Building	23.7051	0.2556	2.3240	1.9522	0.0139		0.1766	0.1766		0.1766	0.1766		2,788.8377	2,788.8377	0.0535	0.0511	2,805.4103
Hardware/Paint Store	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
High School	8.99205	0.0970	0.8816	0.7405	5.2900e-003		0.0670	0.0670		0.0670	0.0670		1,057.8888	1,057.8888	0.0203	0.0194	1,064.1753
Home Improvement Superstore	2.12116	0.0229	0.2080	0.1747	1.2500e-003		0.0158	0.0158		0.0158	0.0158		249.5487	249.5487	4.7800e-003	4.5800e-003	251.0316
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Pharmacy/Drugstore with Drive Thru	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
Single Family Housing	217.784	2.3487	20.0703	8.5406	0.1281		1.6227	1.6227		1.6227	1.6227		25,621.6440	25,621.6440	0.4911	0.4697	25,773.9006
Strip Mall	1.48547	0.0160	0.1456	0.1223	8.7000e-004		0.0111	0.0111		0.0111	0.0111		174.7609	174.7609	3.3500e-003	3.2000e-003	175.7994
Strip Mall	2.26344	0.0244	0.2219	0.1864	1.3300e-003		0.0169	0.0169		0.0169	0.0169		266.2876	266.2876	5.1000e-003	4.8800e-003	267.8700
Strip Mall	3.26855	0.0353	0.3205	0.2692	1.9200e-003		0.0244	0.0244		0.0244	0.0244		384.5353	384.5353	7.3700e-003	7.0500e-003	386.8204
Supermarket	4.10677	0.0443	0.4026	0.3382	2.4200e-003		0.0306	0.0306		0.0306	0.0306		483.1491	483.1491	9.2600e-003	8.8600e-003	486.0203
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.7260</b>	<b>32.2898</b>	<b>16.8436</b>	<b>0.2032</b>		<b>2.5743</b>	<b>2.5743</b>		<b>2.5743</b>	<b>2.5743</b>		<b>40,647.4924</b>	<b>40,647.4924</b>	<b>0.7791</b>	<b>0.7452</b>	<b>40,889.0401</b>

6.0 Area Detail

6.1 Mitigation Measures Area

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Unmitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24

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	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.17 65	55,341.17 65	1.0607	1.0146	55,670.04 14
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.78 48</b>	<b>56,187.78 48</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.85 24</b>

Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.1765	55,341.1765	1.0607	1.0146	55,670.0414
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.7848</b>	<b>56,187.7848</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.8524</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Jackson CEQA Alt 2 Project-Related VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX F-5**  
**ORIGINAL PROJECT PEAK DAILY SUMMER OPERATIONAL**  
**EMISSIONS – CUMULATIVE VMT**

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Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	298.40	1000sqft	8.22	298,400.00	0
Hospital	433.40	1000sqft	11.94	433,400.00	0
Office Park	0.00	1000sqft	0.00	0.00	0
Pharmacy/Drugstore with Drive Thru	32.30	1000sqft	1.20	32,300.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,123.00	0
Parking Lot	465.20	1000sqft	10.68	465,200.00	0
Parking Lot	386.80	1000sqft	8.88	386,800.00	0
Parking Lot	154.20	1000sqft	3.54	154,200.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	94.10	1000sqft	2.16	94,100.00	0
Parking Lot	271.80	1000sqft	6.24	271,800.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	452.00	1000sqft	10.38	452,000.00	0
Parking Lot	341.50	1000sqft	7.84	341,500.00	0

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Parking Lot	173.40	1000sqft	3.98	173,400.00	0
Parking Lot	238.70	1000sqft	5.48	238,700.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Unenclosed Parking with Elevator	173.40	1000sqft	3.98	173,400.00	0
Unenclosed Parking with Elevator	0.00	1000sqft	0.00	0.00	0
City Park	39.20	Acre	39.20	1,707,552.00	0
City Park	39.10	Acre	39.10	1,703,196.00	0
Fast Food Restaurant with Drive Thru	38.70	1000sqft	1.44	38,700.00	0
Apartments Mid Rise	2,137.00	Dwelling Unit	85.00	2,137,000.00	5706
Apartments Mid Rise	100.00	Dwelling Unit	11.76	178,600.00	267
Single Family Housing	2,134.00	Dwelling Unit	355.70	3,841,200.00	5698
Single Family Housing	1,772.00	Dwelling Unit	136.30	3,189,600.00	4731
Convenience Market (24 Hour)	3.20	1000sqft	0.12	3,200.00	0
Discount Club	193.70	1000sqft	7.12	193,700.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.12	3,000.00	0
Hardware/Paint Store	32.30	1000sqft	1.20	32,300.00	0
Home Improvement Superstore	161.40	1000sqft	5.92	161,400.00	0
Strip Mall	113.00	1000sqft	4.16	113,000.00	0
Strip Mall	188.60	1000sqft	6.92	188,600.00	0
Strip Mall	248.40	1000sqft	0.00	248,400.00	0
Supermarket	64.60	1000sqft	2.36	64,600.00	0

1.2 Other Project Characteristics

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	236.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O intensity SMUD default.

Land Use - Non-default from Project Description. Mixed Use Retail lot acreage set to 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Vehicle Trips - Trip frequencies and lengths adjusted to match Traffic Study.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,181,312.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,543,935.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,148.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	6,308,820.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	18,926,460.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00

## Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,237.00
tblFireplaces	NumberGas	0.00	3,906.00
tblFireplaces	NumberNoFireplace	2,237.00	0.00
tblFireplaces	NumberNoFireplace	3,906.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,123.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	6.85	8.22
tblLandUse	LotAcreage	9.95	11.94
tblLandUse	LotAcreage	0.74	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.89	1.44
tblLandUse	LotAcreage	56.24	85.00
tblLandUse	LotAcreage	2.63	11.76
tblLandUse	LotAcreage	692.86	355.70
tblLandUse	LotAcreage	575.32	136.30







Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblVehicleTrips	CNW_TL	6.50	3.83
tblVehicleTrips	CNW_TL	6.50	3.83
tblVehicleTrips	CNW_TL	6.50	3.83
tblVehicleTrips	CNW_TL	6.50	3.83
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
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tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	HO_TL	6.50	3.83
tblVehicleTrips	HO_TL	6.50	3.83
tblVehicleTrips	HS_TL	5.00	2.80
tblVehicleTrips	HS_TL	5.00	2.80

## Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblVehicleTrips	HW_TL	10.00	5.70
tblVehicleTrips	HW_TL	10.00	5.70
tblVehicleTrips	ST_TR	6.39	4.30
tblVehicleTrips	ST_TR	22.75	15.40
tblVehicleTrips	ST_TR	863.10	583.00
tblVehicleTrips	ST_TR	2.46	1.70
tblVehicleTrips	ST_TR	4.37	2.90
tblVehicleTrips	ST_TR	46.55	31.40
tblVehicleTrips	ST_TR	1.64	1.10
tblVehicleTrips	ST_TR	9.91	6.70
tblVehicleTrips	ST_TR	42.04	28.40
tblVehicleTrips	ST_TR	177.59	120.00
tblVehicleTrips	SU_TR	5.86	3.90
tblVehicleTrips	SU_TR	16.74	11.30
tblVehicleTrips	SU_TR	758.45	512.50
tblVehicleTrips	SU_TR	1.05	0.70
tblVehicleTrips	SU_TR	1.79	1.20
tblVehicleTrips	SU_TR	25.49	17.20
tblVehicleTrips	SU_TR	0.76	0.50
tblVehicleTrips	SU_TR	8.62	5.90
tblVehicleTrips	SU_TR	20.43	13.90
tblVehicleTrips	SU_TR	166.44	112.50
tblVehicleTrips	WD_TR	6.65	4.50
tblVehicleTrips	WD_TR	1.89	1.20
tblVehicleTrips	WD_TR	737.99	499.00
tblVehicleTrips	WD_TR	15.43	10.50
tblVehicleTrips	WD_TR	11.03	7.40



Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.35 69	57,137.35 69	1.0951	1.0475	57,476.89 57
Mobile	114.2545	438.0034	640.3060	2.5086	247.8921	1.3615	249.2536	66.1834	1.2629	67.4463		256,286.4 551	256,286.4 551	11.2821		256,568.5 081
<b>Total</b>	<b>432.9796</b>	<b>557.4066</b>	<b>1,200.3523</b>	<b>3.2547</b>	<b>247.8921</b>	<b>13.2855</b>	<b>261.1776</b>	<b>66.1834</b>	<b>13.1869</b>	<b>79.3703</b>	<b>0.0000</b>	<b>401,062.4141</b>	<b>401,062.4141</b>	<b>14.9116</b>	<b>2.6375</b>	<b>402,221.1712</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.18 88	49,649.18 88	0.9516	0.9102	49,944.22 91
Mobile	114.2545	438.0034	640.3060	2.5086	247.8921	1.3615	249.2536	66.1834	1.2629	67.4463		256,286.4 551	256,286.4 551	11.2821		256,568.5 081
<b>Total</b>	<b>432.2932</b>	<b>551.4318</b>	<b>1,197.0562</b>	<b>3.2172</b>	<b>247.8921</b>	<b>12.8112</b>	<b>260.7033</b>	<b>66.1834</b>	<b>12.7127</b>	<b>78.8961</b>	<b>0.0000</b>	<b>393,574.2460</b>	<b>393,574.2460</b>	<b>14.7681</b>	<b>2.5002</b>	<b>394,688.5046</b>

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.16	1.07	0.27	1.15	0.00	3.57	0.18	0.00	3.60	0.60	0.00	1.87	1.87	0.96	5.20	1.87

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 84.62

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	114.2545	438.0034	640.3060	2.5086	247.8921	1.3615	249.2536	66.1834	1.2629	67.4463		256,286.4551	256,286.4551	11.2821		256,568.5081
Unmitigated	114.2545	438.0034	640.3060	2.5086	247.8921	1.3615	249.2536	66.1834	1.2629	67.4463		256,286.4551	256,286.4551	11.2821		256,568.5081





Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,130.19	3,130.19	3130.19	1,566,029	1,566,029
Single Family Housing	13,657.60	14,297.80	12590.60	20,091,588	20,091,588
Single Family Housing	11,340.80	11,872.40	10454.80	16,683,361	16,683,361
Strip Mall	3,390.00	3,209.20	1570.70	2,177,881	2,177,881
Strip Mall	5,658.00	5,356.24	2621.54	3,634,940	3,634,940
Strip Mall	7,452.00	7,054.56	3452.76	4,787,483	4,787,483
Supermarket	4,457.40	7,752.00	7267.50	2,633,355	2,633,355
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>119,369.39</b>	<b>133,317.47</b>	<b>107,592.64</b>	<b>102,413,756</b>	<b>102,413,756</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	5.70	2.80	3.83	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	5.70	2.80	3.83	46.50	12.50	41.00	86	11	3
City Park	5.70	2.80	3.83	33.00	48.00	19.00	66	28	6
City Park	5.70	2.80	3.83	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	5.70	2.80	3.83	0.90	80.10	19.00	24	15	61
Discount Club	5.70	2.80	3.83	16.70	64.30	19.00	45	40	15
Elementary School	5.70	2.80	3.83	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	5.70	2.80	3.83	2.20	78.80	19.00	29	21	50
Gasoline/Service Station	5.70	2.80	3.83	2.00	79.00	19.00	14	27	59
Gasoline/Service Station	5.70	2.80	3.83	2.00	79.00	19.00	14	27	59
General Office Building	5.70	2.80	3.83	33.00	48.00	19.00	77	19	4
Hardware/Paint Store	5.70	2.80	3.83	13.60	67.40	19.00	45	29	26
High School	5.70	2.80	3.83	77.80	17.20	5.00	75	19	6
Home Improvement Superstore	5.70	2.80	3.83	23.40	57.60	19.00	32	20	48
Hospital	5.70	2.80	3.83	64.90	16.10	19.00	73	25	2

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

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
Library	5.70	2.80	3.83	52.00	43.00	5.00	44	44	12
Office Park	5.70	2.80	3.83	33.00	48.00	19.00	82	15	3
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	5.70	2.80	3.83	7.50	73.50	19.00	38	13	49
Single Family Housing	5.70	2.80	3.83	46.50	12.50	41.00	86	11	3
Single Family Housing	5.70	2.80	3.83	46.50	12.50	41.00	86	11	3
Strip Mall	5.70	2.80	3.83	16.60	64.40	19.00	45	40	15
Strip Mall	5.70	2.80	3.83	16.60	64.40	19.00	45	40	15
Strip Mall	5.70	2.80	3.83	16.60	64.40	19.00	45	40	15
Supermarket	5.70	2.80	3.83	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
User Defined Industrial	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0

## Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hospital	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Office Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Unenclosed Parking with Elevator	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.1888	49,649.1888	0.9516	0.9102	49,944.2291
NaturalGas Unmitigated	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.3569	57,137.3569	1.0951	1.0475	57,476.8957

**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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	57073.1	0.6155	5.2597	2.2382	0.0336		0.4253	0.4253		0.4253	0.4253		6,714.4850	6,714.4850	0.1287	0.1231	6,754.3858
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market (24 Hour)	47.5178	5.1000e-004	4.6600e-003	3.9100e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5903	5.5903	1.1000e-004	1.0000e-004	5.6236
Discount Club	2876.31	0.0310	0.2820	0.2369	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.3897	338.3897	6.4900e-003	6.2000e-003	340.4006
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647
Fast Food Restaurant with Drive Thru	18841.1	0.2032	1.8472	1.5516	0.0111		0.1404	0.1404		0.1404	0.1404		2,216.5963	2,216.5963	0.0425	0.0406	2,229.7684
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	10709.7	0.1155	1.0500	0.8820	6.3000e-003		0.0798	0.0798		0.0798	0.0798		1,259.9645	1,259.9645	0.0242	0.0231	1,267.4519
Hardware/Paint Store	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2396.68	0.0259	0.2350	0.1974	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.9623	281.9623	5.4000e-003	5.1700e-003	283.6379
Hospital	80173.1	0.8646	7.8601	6.6025	0.0472		0.5974	0.5974		0.5974	0.5974		9,432.1251	9,432.1251	0.1808	0.1729	9,488.1755
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
Single Family Housing	125422	1.3526	11.5585	4.9185	0.0738		0.9345	0.9345		0.9345	0.9345		14,755.5425	14,755.5425	0.2828	0.2705	14,843.2273
Single Family Housing	151044	1.6289	13.9198	5.9233	0.0889		1.1254	1.1254		1.1254	1.1254		17,769.9367	17,769.9367	0.3406	0.3258	17,875.5345

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	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					
Strip Mall	1677.97	0.0181	0.1645	0.1382	9.9000e-004		0.0125	0.0125		0.0125	0.0125		197.4085	197.4085	3.7800e-003	3.6200e-003	198.5816
Strip Mall	2800.58	0.0302	0.2746	0.2306	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.4801	329.4801	6.3200e-003	6.0400e-003	331.4380
Strip Mall	3688.57	0.0398	0.3616	0.3038	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.9494	433.9494	8.3200e-003	7.9600e-003	436.5281
Supermarket	4495.45	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.8767	528.8767	0.0101	9.7000e-003	532.0196
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.2376</b>	<b>45.6367</b>	<b>25.4930</b>	<b>0.2857</b>		<b>3.6187</b>	<b>3.6187</b>		<b>3.6187</b>	<b>3.6187</b>		<b>57,137.3569</b>	<b>57,137.3569</b>	<b>1.0951</b>	<b>1.0475</b>	<b>57,476.8957</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.37086	0.0256	0.2185	0.0930	1.3900e-003		0.0177	0.0177		0.0177	0.0177		278.9244	278.9244	5.3500e-003	5.1100e-003	280.5819
Apartments Mid Rise	50.6652	0.5464	4.6692	1.9869	0.0298		0.3775	0.3775		0.3775	0.3775		5,960.6144	5,960.6144	0.1143	0.1093	5,996.0354
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0414163	4.5000e-004	4.0600e-003	3.4100e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8725	4.8725	9.0000e-005	9.0000e-005	4.9015
Discount Club	2.50698	0.0270	0.2458	0.2065	1.4700e-003		0.0187	0.0187		0.0187	0.0187		294.9391	294.9391	5.6500e-003	5.4100e-003	296.6918

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Elementary School	8.01185	0.0864	0.7855	0.6598	4.7100e-003		0.0597	0.0597		0.0597	0.0597		942.5705	942.5705	0.0181	0.0173	948.1717
Fast Food Restaurant with Drive Thru	17.8606	0.1926	1.7510	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2472	2,101.2472	0.0403	0.0385	2,113.7339
Gasoline/Service Station	0.264531	2.8500e-003	0.0259	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1212	31.1212	6.0000e-004	5.7000e-004	31.3062
Gasoline/Service Station	0.57315	6.1800e-003	0.0562	0.0472	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003		67.4294	67.4294	1.2900e-003	1.2400e-003	67.8301
General Office Building	9.13586	0.0985	0.8957	0.7524	5.3700e-003		0.0681	0.0681		0.0681	0.0681		1,074.8075	1,074.8075	0.0206	0.0197	1,081.1945
Hardware/Paint Store	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
High School	8.90205	0.0960	0.8728	0.7331	5.2400e-003		0.0663	0.0663		0.0663	0.0663		1,047.3006	1,047.3006	0.0201	0.0192	1,053.5242
Home Improvement Superstore	2.08894	0.0225	0.2048	0.1720	1.2300e-003		0.0156	0.0156		0.0156	0.0156		245.7572	245.7572	4.7100e-003	4.5100e-003	247.2176
Hospital	69.5149	0.7497	6.8152	5.7248	0.0409		0.5180	0.5180		0.5180	0.5180		8,178.2266	8,178.2266	0.1568	0.1499	8,226.8257
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
Single Family Housing	108.004	1.1648	9.9533	4.2354	0.0635		0.8047	0.8047		0.8047	0.8047		12,706.3098	12,706.3098	0.2435	0.2330	12,781.8170
Single Family Housing	130.068	1.4027	11.9866	5.1007	0.0765		0.9691	0.9691		0.9691	0.9691		15,302.0683	15,302.0683	0.2933	0.2805	15,393.0009
Strip Mall	1.46251	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0605	172.0605	3.3000e-003	3.1500e-003	173.0830
Strip Mall	2.44097	0.0263	0.2393	0.2010	1.4400e-003		0.0182	0.0182		0.0182	0.0182		287.1735	287.1735	5.5000e-003	5.2600e-003	288.8800

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	3.21494	0.0347	0.3152	0.2648	1.8900e-003		0.0240	0.0240		0.0240	0.0240		378.2285	378.2285	7.2500e-003	6.9300e-003	380.4762
Supermarket	4.05598	0.0437	0.3976	0.3340	2.3900e-003		0.0302	0.0302		0.0302	0.0302		477.1738	477.1738	9.1500e-003	8.7500e-003	480.0094
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.5512</b>	<b>39.6619</b>	<b>22.1969</b>	<b>0.2483</b>		<b>3.1444</b>	<b>3.1444</b>		<b>3.1444</b>	<b>3.1444</b>		<b>49,649.1888</b>	<b>49,649.1888</b>	<b>0.9516</b>	<b>0.9102</b>	<b>49,944.2291</b>

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674
Unmitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674



Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.70 59	86,724.70 59	1.6622	1.5900	87,240.06 75
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.60 21</b>	<b>87,638.60 21</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.76 74</b>

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.70 59	86,724.70 59	1.6622	1.5900	87,240.06 75
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.60 21</b>	<b>87,638.60 21</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.76 74</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX F-6**  
**ORIGINAL PROJECT PEAK DAILY WINTER OPERATIONAL**  
**EMISSIONS – CUMULATIVE VMT**

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Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	298.40	1000sqft	8.22	298,400.00	0
Hospital	433.40	1000sqft	11.94	433,400.00	0
Office Park	0.00	1000sqft	0.00	0.00	0
Pharmacy/Drugstore with Drive Thru	32.30	1000sqft	1.20	32,300.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,123.00	0
Parking Lot	465.20	1000sqft	10.68	465,200.00	0
Parking Lot	386.80	1000sqft	8.88	386,800.00	0
Parking Lot	154.20	1000sqft	3.54	154,200.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	94.10	1000sqft	2.16	94,100.00	0
Parking Lot	271.80	1000sqft	6.24	271,800.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	452.00	1000sqft	10.38	452,000.00	0
Parking Lot	341.50	1000sqft	7.84	341,500.00	0

## Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Parking Lot	173.40	1000sqft	3.98	173,400.00	0
Parking Lot	238.70	1000sqft	5.48	238,700.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Unenclosed Parking with Elevator	173.40	1000sqft	3.98	173,400.00	0
Unenclosed Parking with Elevator	0.00	1000sqft	0.00	0.00	0
City Park	39.20	Acre	39.20	1,707,552.00	0
City Park	39.10	Acre	39.10	1,703,196.00	0
Fast Food Restaurant with Drive Thru	38.70	1000sqft	1.44	38,700.00	0
Apartments Mid Rise	2,137.00	Dwelling Unit	85.00	2,137,000.00	5706
Apartments Mid Rise	100.00	Dwelling Unit	11.76	178,600.00	267
Single Family Housing	2,134.00	Dwelling Unit	355.70	3,841,200.00	5698
Single Family Housing	1,772.00	Dwelling Unit	136.30	3,189,600.00	4731
Convenience Market (24 Hour)	3.20	1000sqft	0.12	3,200.00	0
Discount Club	193.70	1000sqft	7.12	193,700.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.12	3,000.00	0
Hardware/Paint Store	32.30	1000sqft	1.20	32,300.00	0
Home Improvement Superstore	161.40	1000sqft	5.92	161,400.00	0
Strip Mall	113.00	1000sqft	4.16	113,000.00	0
Strip Mall	188.60	1000sqft	6.92	188,600.00	0
Strip Mall	248.40	1000sqft	0.00	248,400.00	0
Supermarket	64.60	1000sqft	2.36	64,600.00	0

## 1.2 Other Project Characteristics

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	236.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O intensity SMUD default.

Land Use - Non-default from Project Description. Mixed Use Retail lot acreage set to 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Vehicle Trips - Trip frequencies and lengths adjusted to match Traffic Study.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,181,312.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,543,935.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,148.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	6,308,820.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	18,926,460.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00

## Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,237.00
tblFireplaces	NumberGas	0.00	3,906.00
tblFireplaces	NumberNoFireplace	2,237.00	0.00
tblFireplaces	NumberNoFireplace	3,906.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,123.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	6.85	8.22
tblLandUse	LotAcreage	9.95	11.94
tblLandUse	LotAcreage	0.74	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.89	1.44
tblLandUse	LotAcreage	56.24	85.00
tblLandUse	LotAcreage	2.63	11.76
tblLandUse	LotAcreage	692.86	355.70
tblLandUse	LotAcreage	575.32	136.30







Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

tblVehicleTrips	CNW_TL	6.50	3.83
tblVehicleTrips	CNW_TL	6.50	3.83
tblVehicleTrips	CNW_TL	6.50	3.83
tblVehicleTrips	CNW_TL	6.50	3.83
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
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tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	CW_TL	10.00	5.70
tblVehicleTrips	HO_TL	6.50	3.83
tblVehicleTrips	HO_TL	6.50	3.83
tblVehicleTrips	HS_TL	5.00	2.80
tblVehicleTrips	HS_TL	5.00	2.80

## Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

tblVehicleTrips	HW_TL	10.00	5.70
tblVehicleTrips	HW_TL	10.00	5.70
tblVehicleTrips	ST_TR	6.39	4.30
tblVehicleTrips	ST_TR	22.75	15.40
tblVehicleTrips	ST_TR	863.10	583.00
tblVehicleTrips	ST_TR	2.46	1.70
tblVehicleTrips	ST_TR	4.37	2.90
tblVehicleTrips	ST_TR	46.55	31.40
tblVehicleTrips	ST_TR	1.64	1.10
tblVehicleTrips	ST_TR	9.91	6.70
tblVehicleTrips	ST_TR	42.04	28.40
tblVehicleTrips	ST_TR	177.59	120.00
tblVehicleTrips	SU_TR	5.86	3.90
tblVehicleTrips	SU_TR	16.74	11.30
tblVehicleTrips	SU_TR	758.45	512.50
tblVehicleTrips	SU_TR	1.05	0.70
tblVehicleTrips	SU_TR	1.79	1.20
tblVehicleTrips	SU_TR	25.49	17.20
tblVehicleTrips	SU_TR	0.76	0.50
tblVehicleTrips	SU_TR	8.62	5.90
tblVehicleTrips	SU_TR	20.43	13.90
tblVehicleTrips	SU_TR	166.44	112.50
tblVehicleTrips	WD_TR	6.65	4.50
tblVehicleTrips	WD_TR	1.89	1.20
tblVehicleTrips	WD_TR	737.99	499.00
tblVehicleTrips	WD_TR	15.43	10.50
tblVehicleTrips	WD_TR	11.03	7.40



Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.35 69	57,137.35 69	1.0951	1.0475	57,476.89 57
Mobile	74.7517	442.0609	658.4318	2.2775	247.8921	1.3760	249.2681	66.1834	1.2769	67.4603		232,829.1 682	232,829.1 682	12.0495		233,130.4 061
<b>Total</b>	<b>393.4768</b>	<b>561.4641</b>	<b>1,218.478 2</b>	<b>3.0236</b>	<b>247.8921</b>	<b>13.3000</b>	<b>261.1921</b>	<b>66.1834</b>	<b>13.2008</b>	<b>79.3842</b>	<b>0.0000</b>	<b>377,605.1 272</b>	<b>377,605.1 272</b>	<b>15.6790</b>	<b>2.6375</b>	<b>378,783.0 692</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.18 88	49,649.18 88	0.9516	0.9102	49,944.22 91
Mobile	74.7517	442.0609	658.4318	2.2775	247.8921	1.3760	249.2681	66.1834	1.2769	67.4603		232,829.1 682	232,829.1 682	12.0495		233,130.4 061
<b>Total</b>	<b>392.7904</b>	<b>555.4893</b>	<b>1,215.182 1</b>	<b>2.9861</b>	<b>247.8921</b>	<b>12.8258</b>	<b>260.7179</b>	<b>66.1834</b>	<b>12.7266</b>	<b>78.9100</b>	<b>0.0000</b>	<b>370,116.9 590</b>	<b>370,116.9 590</b>	<b>15.5355</b>	<b>2.5002</b>	<b>371,250.4 026</b>

## Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.17	1.06	0.27	1.24	0.00	3.57	0.18	0.00	3.59	0.60	0.00	1.98	1.98	0.92	5.20	1.99

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

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

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

**Acres of Paving: 84.62**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

#### OffRoad Equipment

## Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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



Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	74.7517	442.0609	658.4318	2.2775	247.8921	1.3760	249.2681	66.1834	1.2769	67.4603		232,829.1682	232,829.1682	12.0495		233,130.4061
Unmitigated	74.7517	442.0609	658.4318	2.2775	247.8921	1.3760	249.2681	66.1834	1.2769	67.4603		232,829.1682	232,829.1682	12.0495		233,130.4061



Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,130.19	3,130.19	3130.19	1,566,029	1,566,029
Single Family Housing	13,657.60	14,297.80	12590.60	20,091,588	20,091,588
Single Family Housing	11,340.80	11,872.40	10454.80	16,683,361	16,683,361
Strip Mall	3,390.00	3,209.20	1570.70	2,177,881	2,177,881
Strip Mall	5,658.00	5,356.24	2621.54	3,634,940	3,634,940
Strip Mall	7,452.00	7,054.56	3452.76	4,787,483	4,787,483
Supermarket	4,457.40	7,752.00	7267.50	2,633,355	2,633,355
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>119,369.39</b>	<b>133,317.47</b>	<b>107,592.64</b>	<b>102,413,756</b>	<b>102,413,756</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	5.70	2.80	3.83	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	5.70	2.80	3.83	46.50	12.50	41.00	86	11	3
City Park	5.70	2.80	3.83	33.00	48.00	19.00	66	28	6
City Park	5.70	2.80	3.83	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	5.70	2.80	3.83	0.90	80.10	19.00	24	15	61
Discount Club	5.70	2.80	3.83	16.70	64.30	19.00	45	40	15
Elementary School	5.70	2.80	3.83	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	5.70	2.80	3.83	2.20	78.80	19.00	29	21	50
Gasoline/Service Station	5.70	2.80	3.83	2.00	79.00	19.00	14	27	59
Gasoline/Service Station	5.70	2.80	3.83	2.00	79.00	19.00	14	27	59
General Office Building	5.70	2.80	3.83	33.00	48.00	19.00	77	19	4
Hardware/Paint Store	5.70	2.80	3.83	13.60	67.40	19.00	45	29	26
High School	5.70	2.80	3.83	77.80	17.20	5.00	75	19	6
Home Improvement Superstore	5.70	2.80	3.83	23.40	57.60	19.00	32	20	48
Hospital	5.70	2.80	3.83	64.90	16.10	19.00	73	25	2

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

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
Library	5.70	2.80	3.83	52.00	43.00	5.00	44	44	12
Office Park	5.70	2.80	3.83	33.00	48.00	19.00	82	15	3
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Parking Lot	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	5.70	2.80	3.83	7.50	73.50	19.00	38	13	49
Single Family Housing	5.70	2.80	3.83	46.50	12.50	41.00	86	11	3
Single Family Housing	5.70	2.80	3.83	46.50	12.50	41.00	86	11	3
Strip Mall	5.70	2.80	3.83	16.60	64.40	19.00	45	40	15
Strip Mall	5.70	2.80	3.83	16.60	64.40	19.00	45	40	15
Strip Mall	5.70	2.80	3.83	16.60	64.40	19.00	45	40	15
Supermarket	5.70	2.80	3.83	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0
User Defined Industrial	5.70	2.80	3.83	0.00	0.00	0.00	0	0	0

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hospital	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Office Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Unenclosed Parking with Elevator	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.1888	49,649.1888	0.9516	0.9102	49,944.2291
NaturalGas Unmitigated	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.3569	57,137.3569	1.0951	1.0475	57,476.8957

**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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	57073.1	0.6155	5.2597	2.2382	0.0336		0.4253	0.4253		0.4253	0.4253		6,714.4850	6,714.4850	0.1287	0.1231	6,754.3858
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market (24 Hour)	47.5178	5.1000e-004	4.6600e-003	3.9100e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5903	5.5903	1.1000e-004	1.0000e-004	5.6236
Discount Club	2876.31	0.0310	0.2820	0.2369	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.3897	338.3897	6.4900e-003	6.2000e-003	340.4006
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647
Fast Food Restaurant with Drive Thru	18841.1	0.2032	1.8472	1.5516	0.0111		0.1404	0.1404		0.1404	0.1404		2,216.5963	2,216.5963	0.0425	0.0406	2,229.7684
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	10709.7	0.1155	1.0500	0.8820	6.3000e-003		0.0798	0.0798		0.0798	0.0798		1,259.9645	1,259.9645	0.0242	0.0231	1,267.4519
Hardware/Paint Store	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2396.68	0.0259	0.2350	0.1974	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.9623	281.9623	5.4000e-003	5.1700e-003	283.6379
Hospital	80173.1	0.8646	7.8601	6.6025	0.0472		0.5974	0.5974		0.5974	0.5974		9,432.1251	9,432.1251	0.1808	0.1729	9,488.1755
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
Single Family Housing	125422	1.3526	11.5585	4.9185	0.0738		0.9345	0.9345		0.9345	0.9345		14,755.5425	14,755.5425	0.2828	0.2705	14,843.2273
Single Family Housing	151044	1.6289	13.9198	5.9233	0.0889		1.1254	1.1254		1.1254	1.1254		17,769.9367	17,769.9367	0.3406	0.3258	17,875.5345

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	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					
Strip Mall	1677.97	0.0181	0.1645	0.1382	9.9000e-004		0.0125	0.0125		0.0125	0.0125		197.4085	197.4085	3.7800e-003	3.6200e-003	198.5816
Strip Mall	2800.58	0.0302	0.2746	0.2306	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.4801	329.4801	6.3200e-003	6.0400e-003	331.4380
Strip Mall	3688.57	0.0398	0.3616	0.3038	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.9494	433.9494	8.3200e-003	7.9600e-003	436.5281
Supermarket	4495.45	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.8767	528.8767	0.0101	9.7000e-003	532.0196
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.2376</b>	<b>45.6367</b>	<b>25.4930</b>	<b>0.2857</b>		<b>3.6187</b>	<b>3.6187</b>		<b>3.6187</b>	<b>3.6187</b>		<b>57,137.3569</b>	<b>57,137.3569</b>	<b>1.0951</b>	<b>1.0475</b>	<b>57,476.8957</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.37086	0.0256	0.2185	0.0930	1.3900e-003		0.0177	0.0177		0.0177	0.0177		278.9244	278.9244	5.3500e-003	5.1100e-003	280.5819
Apartments Mid Rise	50.6652	0.5464	4.6692	1.9869	0.0298		0.3775	0.3775		0.3775	0.3775		5,960.6144	5,960.6144	0.1143	0.1093	5,996.0354
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0414163	4.5000e-004	4.0600e-003	3.4100e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8725	4.8725	9.0000e-005	9.0000e-005	4.9015
Discount Club	2.50698	0.0270	0.2458	0.2065	1.4700e-003		0.0187	0.0187		0.0187	0.0187		294.9391	294.9391	5.6500e-003	5.4100e-003	296.6918



Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Elementary School	8.01185	0.0864	0.7855	0.6598	4.7100e-003		0.0597	0.0597		0.0597	0.0597		942.5705	942.5705	0.0181	0.0173	948.1717
Fast Food Restaurant with Drive Thru	17.8606	0.1926	1.7510	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2472	2,101.2472	0.0403	0.0385	2,113.7339
Gasoline/Service Station	0.264531	2.8500e-003	0.0259	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1212	31.1212	6.0000e-004	5.7000e-004	31.3062
Gasoline/Service Station	0.57315	6.1800e-003	0.0562	0.0472	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003		67.4294	67.4294	1.2900e-003	1.2400e-003	67.8301
General Office Building	9.13586	0.0985	0.8957	0.7524	5.3700e-003		0.0681	0.0681		0.0681	0.0681		1,074.8075	1,074.8075	0.0206	0.0197	1,081.1945
Hardware/Paint Store	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
High School	8.90205	0.0960	0.8728	0.7331	5.2400e-003		0.0663	0.0663		0.0663	0.0663		1,047.3006	1,047.3006	0.0201	0.0192	1,053.5242
Home Improvement Superstore	2.08894	0.0225	0.2048	0.1720	1.2300e-003		0.0156	0.0156		0.0156	0.0156		245.7572	245.7572	4.7100e-003	4.5100e-003	247.2176
Hospital	69.5149	0.7497	6.8152	5.7248	0.0409		0.5180	0.5180		0.5180	0.5180		8,178.2266	8,178.2266	0.1568	0.1499	8,226.8257
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
Single Family Housing	108.004	1.1648	9.9533	4.2354	0.0635		0.8047	0.8047		0.8047	0.8047		12,706.3098	12,706.3098	0.2435	0.2330	12,781.8170
Single Family Housing	130.068	1.4027	11.9866	5.1007	0.0765		0.9691	0.9691		0.9691	0.9691		15,302.0683	15,302.0683	0.2933	0.2805	15,393.0009
Strip Mall	1.46251	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0605	172.0605	3.3000e-003	3.1500e-003	173.0830
Strip Mall	2.44097	0.0263	0.2393	0.2010	1.4400e-003		0.0182	0.0182		0.0182	0.0182		287.1735	287.1735	5.5000e-003	5.2600e-003	288.8800

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	3.21494	0.0347	0.3152	0.2648	1.8900e-003		0.0240	0.0240		0.0240	0.0240		378.2285	378.2285	7.2500e-003	6.9300e-003	380.4762
Supermarket	4.05598	0.0437	0.3976	0.3340	2.3900e-003		0.0302	0.0302		0.0302	0.0302		477.1738	477.1738	9.1500e-003	8.7500e-003	480.0094
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.5512</b>	<b>39.6619</b>	<b>22.1969</b>	<b>0.2483</b>		<b>3.1444</b>	<b>3.1444</b>		<b>3.1444</b>	<b>3.1444</b>		<b>49,649.1888</b>	<b>49,649.1888</b>	<b>0.9516</b>	<b>0.9102</b>	<b>49,944.2291</b>

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674
Unmitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.70 59	86,724.70 59	1.6622	1.5900	87,240.06 75
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.60 21</b>	<b>87,638.60 21</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.76 74</b>

Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.70 59	86,724.70 59	1.6622	1.5900	87,240.06 75
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.60 21</b>	<b>87,638.60 21</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.76 74</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Jackson CEQA Original Project Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX F-7**  
**ALTERNATIVE 2 PEAK DAILY SUMMER OPERATIONAL**  
**EMISSIONS – CUMULATIVE VMT**

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Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	766.60	1000sqft	21.36	766,600.00	0
Pharmacy/Drugstore with Drive Thru	32.50	1000sqft	1.20	32,500.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,213.00	0
Parking Lot	468.30	1000sqft	10.75	468,300.00	0
Parking Lot	390.30	1000sqft	8.96	390,300.00	0
Parking Lot	156.80	1000sqft	3.60	156,800.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	93.70	1000sqft	2.15	93,700.00	0
Parking Lot	273.10	1000sqft	6.27	273,100.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.40	1000sqft	0.17	7,400.00	0
Parking Lot	416.00	1000sqft	9.55	416,000.00	0
Parking Lot	343.20	1000sqft	7.88	343,200.00	0
Parking Lot	613.30	1000sqft	14.08	613,300.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
City Park	40.60	Acre	40.60	1,768,536.00	0
City Park	38.20	Acre	38.20	1,663,992.00	0
Fast Food Restaurant with Drive Thru	39.00	1000sqft	1.43	39,000.00	0
Apartments Mid Rise	2,050.00	Dwelling Unit	82.00	2,050,000.00	5474
Apartments Mid Rise	100.00	Dwelling Unit	11.82	178,600.00	267
Single Family Housing	3,540.00	Dwelling Unit	507.10	6,372,000.00	9452
Convenience Market (24 Hour)	3.30	1000sqft	0.12	3,300.00	0
Discount Club	195.00	1000sqft	7.16	195,000.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.11	3,000.00	0
Hardware/Paint Store	32.50	1000sqft	1.20	32,500.00	0
Home Improvement Superstore	162.50	1000sqft	5.97	162,500.00	0
Strip Mall	113.80	1000sqft	4.18	113,800.00	0
Strip Mall	173.40	1000sqft	6.37	173,400.00	0
Strip Mall	250.40	1000sqft	0.00	250,400.00	0
Supermarket	65.00	1000sqft	2.40	65,000.00	0

1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	236.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

1.3 User Entered Comments & Non-Default Data



Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O are default for SMUD.

Land Use - Land use and acreages per Applicant. Acreage for Multi-use shopping entered as 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Vehicle Trips - Trip frequencies and lengths adjusted to match Traffic Study.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,194,357.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,583,070.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,292.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	5,805,405.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	17,416,215.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00

## Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,150.00
tblFireplaces	NumberGas	0.00	3,540.00
tblFireplaces	NumberNoFireplace	2,150.00	0.00
tblFireplaces	NumberNoFireplace	3,540.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,213.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	17.60	21.36
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.90	1.43
tblLandUse	LotAcreage	2.63	11.82
tblLandUse	LotAcreage	53.95	82.00
tblLandUse	LotAcreage	1,149.35	507.10
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	4.48	7.16
tblLandUse	LotAcreage	0.08	0.11
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	3.73	5.97
tblLandUse	LotAcreage	2.61	4.18
tblLandUse	LotAcreage	3.98	6.37
tblLandUse	LotAcreage	5.75	0.00





## Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblVehicleTrips	CW_TL	10.00	6.00
tblVehicleTrips	CW_TL	10.00	6.00
tblVehicleTrips	CW_TL	10.00	6.00
tblVehicleTrips	CW_TL	10.00	6.00
tblVehicleTrips	CW_TL	10.00	6.00
tblVehicleTrips	HO_TL	6.50	3.99
tblVehicleTrips	HO_TL	6.50	3.99
tblVehicleTrips	HS_TL	5.00	3.00
tblVehicleTrips	HS_TL	5.00	3.00
tblVehicleTrips	HW_TL	10.00	6.00
tblVehicleTrips	HW_TL	10.00	6.00
tblVehicleTrips	ST_TR	6.39	3.80
tblVehicleTrips	ST_TR	22.75	13.70
tblVehicleTrips	ST_TR	863.10	518.00
tblVehicleTrips	ST_TR	2.46	1.50
tblVehicleTrips	ST_TR	4.37	2.60
tblVehicleTrips	ST_TR	46.55	27.90
tblVehicleTrips	ST_TR	9.91	5.90
tblVehicleTrips	ST_TR	42.04	25.20
tblVehicleTrips	ST_TR	177.59	106.60
tblVehicleTrips	SU_TR	5.86	3.50
tblVehicleTrips	SU_TR	16.74	10.00
tblVehicleTrips	SU_TR	758.45	455.00
tblVehicleTrips	SU_TR	1.05	0.60
tblVehicleTrips	SU_TR	1.79	1.10
tblVehicleTrips	SU_TR	25.49	15.30
tblVehicleTrips	SU_TR	8.62	5.20



Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Energy	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.96 39	46,364.96 39	0.8887	0.8500	46,640.48 77
Mobile	103.5664	396.9541	577.5351	2.2591	222.8521	1.2281	224.0801	59.4981	1.1391	60.6372		230,812.0 920	230,812.0 920	10.1887		231,066.8 097
<b>Total</b>	<b>399.4235</b>	<b>482.5330</b>	<b>1,083.558 6</b>	<b>2.7925</b>	<b>222.8521</b>	<b>10.2749</b>	<b>233.1270</b>	<b>59.4981</b>	<b>10.1860</b>	<b>69.6841</b>	<b>0.0000</b>	<b>333,364.8 407</b>	<b>333,364.8 407</b>	<b>12.9462</b>	<b>1.8646</b>	<b>334,244.1 499</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Energy	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.49 24	40,647.49 24	0.7791	0.7452	40,889.04 01
Mobile	103.5664	396.9541	577.5351	2.2591	222.8521	1.2281	224.0801	59.4981	1.1391	60.6372		230,812.0 920	230,812.0 920	10.1887		231,066.8 097
<b>Total</b>	<b>398.8994</b>	<b>477.9969</b>	<b>1,081.232 2</b>	<b>2.7639</b>	<b>222.8521</b>	<b>9.9128</b>	<b>232.7648</b>	<b>59.4981</b>	<b>9.8239</b>	<b>69.3220</b>	<b>0.0000</b>	<b>327,647.3 691</b>	<b>327,647.3 691</b>	<b>12.8366</b>	<b>1.7598</b>	<b>328,492.7 023</b>

## Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.13	0.94	0.21	1.02	0.00	3.52	0.16	0.00	3.55	0.52	0.00	1.72	1.72	0.85	5.62	1.72

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 84.67

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment



## Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	103.5664	396.9541	577.5351	2.2591	222.8521	1.2281	224.0801	59.4981	1.1391	60.6372		230,812.0920	230,812.0920	10.1887		231,066.8097
Unmitigated	103.5664	396.9541	577.5351	2.2591	222.8521	1.2281	224.0801	59.4981	1.1391	60.6372		230,812.0920	230,812.0920	10.1887		231,066.8097

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	8,200.00	7,790.00	7175.00	12,408,422	12,408,422
Apartments Mid Rise	400.00	380.00	350.00	605,289	605,289
City Park	44.66	556.22	406.00	188,394	188,394
City Park	42.02	523.34	382.00	177,258	177,258
Convenience Market (24 Hour)	1,461.90	1,709.40	1501.50	521,453	521,453
Discount Club	8,151.00	10,481.25	6565.65	6,143,663	6,143,663
Elementary School	2,092.50	0.00	0.00	1,890,113	1,890,113
Fast Food Restaurant with Drive Thru	19,348.68	28,159.17	21166.08	8,845,263	8,845,263
Gasoline/Service Station	8,090.88	8,090.88	8090.88	2,158,687	2,158,687
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,079,344	1,079,344
General Office Building	5,059.56	1,149.90	459.96	4,784,694	4,784,694
Hardware/Paint Store	1,666.93	2,681.90	2231.13	1,312,286	1,312,286
High School	1,925.00	650.00	275.00	2,358,619	2,358,619
Home Improvement Superstore	4,995.25	9,217.00	9067.50	3,345,852	3,345,852
Library	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,149.58	3,149.58	3149.58	1,670,260	1,670,260
Single Family Housing	20,178.00	20,886.00	18408.00	31,081,251	31,081,251



Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

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
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	6.00	3.00	3.99	7.50	73.50	19.00	38	13	49
Single Family Housing	6.00	3.00	3.99	46.50	12.50	41.00	86	11	3
Strip Mall	6.00	3.00	3.99	16.60	64.40	19.00	45	40	15
Strip Mall	6.00	3.00	3.99	16.60	64.40	19.00	45	40	15
Strip Mall	6.00	3.00	3.99	16.60	64.40	19.00	45	40	15
Supermarket	6.00	3.00	3.99	6.50	74.50	19.00	34	30	36
User Defined Industrial	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.4924	40,647.4924	0.7791	0.7452	40,889.0401
NaturalGas Unmitigated	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.9639	46,364.9639	0.8887	0.8500	46,640.4877

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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	54749.6	0.5904	5.0456	2.1470	0.0322		0.4079	0.4079		0.4079	0.4079		6,441.1297	6,441.1297	0.1235	0.1181	6,479.4062
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	49.0027	5.3000e-004	4.8000e-003	4.0400e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.7650	5.7650	1.1000e-004	1.1000e-004	5.7993
Discount Club	2895.62	0.0312	0.2839	0.2385	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.6608	340.6608	6.5300e-003	6.2500e-003	342.6851
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	18987.1	0.2048	1.8615	1.5637	0.0112		0.1415	0.1415		0.1415	0.1415		2,233.7792	2,233.7792	0.0428	0.0410	2,247.0534
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	27513.6	0.2967	2.6974	2.2658	0.0162		0.2050	0.2050		0.2050	0.2050		3,236.8928	3,236.8928	0.0620	0.0593	3,256.1281
Hardware/Paint Store	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2413.01	0.0260	0.2366	0.1987	1.4200e-003		0.0180	0.0180		0.0180	0.0180		283.8840	283.8840	5.4400e-003	5.2000e-003	285.5710
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
Single Family Housing	250561	2.7021	23.0909	9.8259	0.1474		1.8669	1.8669		1.8669	1.8669		29,477.7768	29,477.7768	0.5650	0.5404	29,652.9485
Strip Mall	1689.85	0.0182	0.1657	0.1392	9.9000e-004		0.0126	0.0126		0.0126	0.0126		198.8061	198.8061	3.8100e-003	3.6400e-003	199.9875
Strip Mall	2574.87	0.0278	0.2524	0.2121	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.9260	302.9260	5.8100e-003	5.5500e-003	304.7262
Strip Mall	3718.27	0.0401	0.3645	0.3062	2.1900e-003		0.0277	0.0277		0.0277	0.0277		437.4434	437.4434	8.3800e-003	8.0200e-003	440.0429
Supermarket	4523.29	0.0488	0.4435	0.3725	2.6600e-003		0.0337	0.0337		0.0337	0.0337		532.1515	532.1515	0.0102	9.7600e-003	535.3138
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.2501</b>	<b>36.8258</b>	<b>19.1700</b>	<b>0.2318</b>		<b>2.9365</b>	<b>2.9365</b>		<b>2.9365</b>	<b>2.9365</b>		<b>46,364.9639</b>	<b>46,364.9639</b>	<b>0.8887</b>	<b>0.8500</b>	<b>46,640.4877</b>



Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.38827	0.0258	0.2201	0.0937	1.4000e-003		0.0178	0.0178		0.0178	0.0178		280.9727	280.9727	5.3900e-003	5.1500e-003	282.6424
Apartments Mid Rise	48.9595	0.5280	4.5120	1.9200	0.0288		0.3648	0.3648		0.3648	0.3648		5,759.9413	5,759.9413	0.1104	0.1056	5,794.1697
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0430759	4.6000e-004	4.2200e-003	3.5500e-003	3.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		5.0678	5.0678	1.0000e-004	9.0000e-005	5.0979
Discount Club	2.5454	0.0275	0.2496	0.2096	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.4584	299.4584	5.7400e-003	5.4900e-003	301.2379
Elementary School	8.09285	0.0873	0.7934	0.6665	4.7600e-003		0.0603	0.0603		0.0603	0.0603		952.0999	952.0999	0.0183	0.0175	957.7578
Fast Food Restaurant with Drive Thru	18.0564	0.1947	1.7702	1.4870	0.0106		0.1345	0.1345		0.1345	0.1345		2,124.2856	2,124.2856	0.0407	0.0390	2,136.9091
Gasoline/Service Station	0.266261	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.3248	31.3248	6.0000e-004	5.7000e-004	31.5109
Gasoline/Service Station	0.576898	6.2200e-003	0.0566	0.0475	3.4000e-004		4.3000e-003	4.3000e-003		4.3000e-003	4.3000e-003		67.8704	67.8704	1.3000e-003	1.2400e-003	68.2737
General Office Building	23.7051	0.2556	2.3240	1.9522	0.0139		0.1766	0.1766		0.1766	0.1766		2,788.8377	2,788.8377	0.0535	0.0511	2,805.4103
Hardware/Paint Store	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
High School	8.99205	0.0970	0.8816	0.7405	5.2900e-003		0.0670	0.0670		0.0670	0.0670		1,057.8888	1,057.8888	0.0203	0.0194	1,064.1753
Home Improvement Superstore	2.12116	0.0229	0.2080	0.1747	1.2500e-003		0.0158	0.0158		0.0158	0.0158		249.5487	249.5487	4.7800e-003	4.5800e-003	251.0316
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Pharmacy/Drugstore with Drive Thru	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
Single Family Housing	217.784	2.3487	20.0703	8.5406	0.1281		1.6227	1.6227		1.6227	1.6227		25,621.6440	25,621.6440	0.4911	0.4697	25,773.9006
Strip Mall	1.48547	0.0160	0.1456	0.1223	8.7000e-004		0.0111	0.0111		0.0111	0.0111		174.7609	174.7609	3.3500e-003	3.2000e-003	175.7994
Strip Mall	2.26344	0.0244	0.2219	0.1864	1.3300e-003		0.0169	0.0169		0.0169	0.0169		266.2876	266.2876	5.1000e-003	4.8800e-003	267.8700
Strip Mall	3.26855	0.0353	0.3205	0.2692	1.9200e-003		0.0244	0.0244		0.0244	0.0244		384.5353	384.5353	7.3700e-003	7.0500e-003	386.8204
Supermarket	4.10677	0.0443	0.4026	0.3382	2.4200e-003		0.0306	0.0306		0.0306	0.0306		483.1491	483.1491	9.2600e-003	8.8600e-003	486.0203
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.7260</b>	<b>32.2898</b>	<b>16.8436</b>	<b>0.2032</b>		<b>2.5743</b>	<b>2.5743</b>		<b>2.5743</b>	<b>2.5743</b>		<b>40,647.4924</b>	<b>40,647.4924</b>	<b>0.7791</b>	<b>0.7452</b>	<b>40,889.0401</b>

6.0 Area Detail

6.1 Mitigation Measures Area

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Unmitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24

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	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.17 65	55,341.17 65	1.0607	1.0146	55,670.04 14
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.78 48</b>	<b>56,187.78 48</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.85 24</b>

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.1765	55,341.1765	1.0607	1.0146	55,670.0414
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.7848</b>	<b>56,187.7848</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.8524</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX F-8**  
**ALTERNATIVE 2 PEAK DAILY WINTER OPERATIONAL**  
**EMISSIONS – CUMULATIVE VMT**

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Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	766.60	1000sqft	21.36	766,600.00	0
Pharmacy/Drugstore with Drive Thru	32.50	1000sqft	1.20	32,500.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,213.00	0
Parking Lot	468.30	1000sqft	10.75	468,300.00	0
Parking Lot	390.30	1000sqft	8.96	390,300.00	0
Parking Lot	156.80	1000sqft	3.60	156,800.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	93.70	1000sqft	2.15	93,700.00	0
Parking Lot	273.10	1000sqft	6.27	273,100.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.40	1000sqft	0.17	7,400.00	0
Parking Lot	416.00	1000sqft	9.55	416,000.00	0
Parking Lot	343.20	1000sqft	7.88	343,200.00	0
Parking Lot	613.30	1000sqft	14.08	613,300.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
City Park	40.60	Acre	40.60	1,768,536.00	0
City Park	38.20	Acre	38.20	1,663,992.00	0
Fast Food Restaurant with Drive Thru	39.00	1000sqft	1.43	39,000.00	0
Apartments Mid Rise	2,050.00	Dwelling Unit	82.00	2,050,000.00	5474
Apartments Mid Rise	100.00	Dwelling Unit	11.82	178,600.00	267
Single Family Housing	3,540.00	Dwelling Unit	507.10	6,372,000.00	9452
Convenience Market (24 Hour)	3.30	1000sqft	0.12	3,300.00	0
Discount Club	195.00	1000sqft	7.16	195,000.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.11	3,000.00	0
Hardware/Paint Store	32.50	1000sqft	1.20	32,500.00	0
Home Improvement Superstore	162.50	1000sqft	5.97	162,500.00	0
Strip Mall	113.80	1000sqft	4.18	113,800.00	0
Strip Mall	173.40	1000sqft	6.37	173,400.00	0
Strip Mall	250.40	1000sqft	0.00	250,400.00	0
Supermarket	65.00	1000sqft	2.40	65,000.00	0

1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	236.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

1.3 User Entered Comments & Non-Default Data



Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O are default for SMUD.

Land Use - Land use and acreages per Applicant. Acreage for Multi-use shopping entered as 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Vehicle Trips - Trip frequencies and lengths adjusted to match Traffic Study.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,194,357.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,583,070.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,292.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	5,805,405.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	17,416,215.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00

## Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,150.00
tblFireplaces	NumberGas	0.00	3,540.00
tblFireplaces	NumberNoFireplace	2,150.00	0.00
tblFireplaces	NumberNoFireplace	3,540.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,213.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	17.60	21.36
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.90	1.43
tblLandUse	LotAcreage	2.63	11.82
tblLandUse	LotAcreage	53.95	82.00
tblLandUse	LotAcreage	1,149.35	507.10
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	4.48	7.16
tblLandUse	LotAcreage	0.08	0.11
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	3.73	5.97
tblLandUse	LotAcreage	2.61	4.18
tblLandUse	LotAcreage	3.98	6.37
tblLandUse	LotAcreage	5.75	0.00





## Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

tblVehicleTrips	CW_TL	10.00	6.00
tblVehicleTrips	CW_TL	10.00	6.00
tblVehicleTrips	CW_TL	10.00	6.00
tblVehicleTrips	CW_TL	10.00	6.00
tblVehicleTrips	CW_TL	10.00	6.00
tblVehicleTrips	HO_TL	6.50	3.99
tblVehicleTrips	HO_TL	6.50	3.99
tblVehicleTrips	HS_TL	5.00	3.00
tblVehicleTrips	HS_TL	5.00	3.00
tblVehicleTrips	HW_TL	10.00	6.00
tblVehicleTrips	HW_TL	10.00	6.00
tblVehicleTrips	ST_TR	6.39	3.80
tblVehicleTrips	ST_TR	22.75	13.70
tblVehicleTrips	ST_TR	863.10	518.00
tblVehicleTrips	ST_TR	2.46	1.50
tblVehicleTrips	ST_TR	4.37	2.60
tblVehicleTrips	ST_TR	46.55	27.90
tblVehicleTrips	ST_TR	9.91	5.90
tblVehicleTrips	ST_TR	42.04	25.20
tblVehicleTrips	ST_TR	177.59	106.60
tblVehicleTrips	SU_TR	5.86	3.50
tblVehicleTrips	SU_TR	16.74	10.00
tblVehicleTrips	SU_TR	758.45	455.00
tblVehicleTrips	SU_TR	1.05	0.60
tblVehicleTrips	SU_TR	1.79	1.10
tblVehicleTrips	SU_TR	25.49	15.30
tblVehicleTrips	SU_TR	8.62	5.20



Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.7848	56,187.7848	1.8688	1.0146	56,536.8524
Energy	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.9639	46,364.9639	0.8887	0.8500	46,640.4877
Mobile	67.7149	400.5565	594.6673	2.0510	222.8521	1.2413	224.0933	59.4981	1.1518	60.6499		209,685.5084	209,685.5084	10.8870		209,957.6835
<b>Total</b>	<b>363.5720</b>	<b>486.1353</b>	<b>1,100.6908</b>	<b>2.5844</b>	<b>222.8521</b>	<b>10.2881</b>	<b>233.1402</b>	<b>59.4981</b>	<b>10.1986</b>	<b>69.6967</b>	<b>0.0000</b>	<b>312,238.2571</b>	<b>312,238.2571</b>	<b>13.6445</b>	<b>1.8646</b>	<b>313,135.0237</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.7848	56,187.7848	1.8688	1.0146	56,536.8524
Energy	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.4924	40,647.4924	0.7791	0.7452	40,889.0401
Mobile	67.7149	400.5565	594.6673	2.0510	222.8521	1.2413	224.0933	59.4981	1.1518	60.6499		209,685.5084	209,685.5084	10.8870		209,957.6835
<b>Total</b>	<b>363.0479</b>	<b>481.5993</b>	<b>1,098.3644</b>	<b>2.5558</b>	<b>222.8521</b>	<b>9.9260</b>	<b>232.7780</b>	<b>59.4981</b>	<b>9.8365</b>	<b>69.3346</b>	<b>0.0000</b>	<b>306,520.7856</b>	<b>306,520.7856</b>	<b>13.5349</b>	<b>1.7598</b>	<b>307,383.5761</b>

## Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	0.93	0.21	1.11	0.00	3.52	0.16	0.00	3.55	0.52	0.00	1.83	1.83	0.80	5.62	1.84

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

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

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

**Acres of Paving: 84.67**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

#### OffRoad Equipment



## Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	67.7149	400.5565	594.6673	2.0510	222.8521	1.2413	224.0933	59.4981	1.1518	60.6499		209,685.5084	209,685.5084	10.8870		209,957.6835
Unmitigated	67.7149	400.5565	594.6673	2.0510	222.8521	1.2413	224.0933	59.4981	1.1518	60.6499		209,685.5084	209,685.5084	10.8870		209,957.6835

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	8,200.00	7,790.00	7175.00	12,408,422	12,408,422
Apartments Mid Rise	400.00	380.00	350.00	605,289	605,289
City Park	44.66	556.22	406.00	188,394	188,394
City Park	42.02	523.34	382.00	177,258	177,258
Convenience Market (24 Hour)	1,461.90	1,709.40	1501.50	521,453	521,453
Discount Club	8,151.00	10,481.25	6565.65	6,143,663	6,143,663
Elementary School	2,092.50	0.00	0.00	1,890,113	1,890,113
Fast Food Restaurant with Drive Thru	19,348.68	28,159.17	21166.08	8,845,263	8,845,263
Gasoline/Service Station	8,090.88	8,090.88	8090.88	2,158,687	2,158,687
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,079,344	1,079,344
General Office Building	5,059.56	1,149.90	459.96	4,784,694	4,784,694
Hardware/Paint Store	1,666.93	2,681.90	2231.13	1,312,286	1,312,286
High School	1,925.00	650.00	275.00	2,358,619	2,358,619
Home Improvement Superstore	4,995.25	9,217.00	9067.50	3,345,852	3,345,852
Library	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,149.58	3,149.58	3149.58	1,670,260	1,670,260
Single Family Housing	20,178.00	20,886.00	18408.00	31,081,251	31,081,251



Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

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
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Parking Lot	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	6.00	3.00	3.99	7.50	73.50	19.00	38	13	49
Single Family Housing	6.00	3.00	3.99	46.50	12.50	41.00	86	11	3
Strip Mall	6.00	3.00	3.99	16.60	64.40	19.00	45	40	15
Strip Mall	6.00	3.00	3.99	16.60	64.40	19.00	45	40	15
Strip Mall	6.00	3.00	3.99	16.60	64.40	19.00	45	40	15
Supermarket	6.00	3.00	3.99	6.50	74.50	19.00	34	30	36
User Defined Industrial	6.00	3.00	3.99	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.4924	40,647.4924	0.7791	0.7452	40,889.0401
NaturalGas Unmitigated	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.9639	46,364.9639	0.8887	0.8500	46,640.4877

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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	54749.6	0.5904	5.0456	2.1470	0.0322		0.4079	0.4079		0.4079	0.4079		6,441.1297	6,441.1297	0.1235	0.1181	6,479.4062
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	49.0027	5.3000e-004	4.8000e-003	4.0400e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.7650	5.7650	1.1000e-004	1.1000e-004	5.7993
Discount Club	2895.62	0.0312	0.2839	0.2385	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.6608	340.6608	6.5300e-003	6.2500e-003	342.6851
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	18987.1	0.2048	1.8615	1.5637	0.0112		0.1415	0.1415		0.1415	0.1415		2,233.7792	2,233.7792	0.0428	0.0410	2,247.0534
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	27513.6	0.2967	2.6974	2.2658	0.0162		0.2050	0.2050		0.2050	0.2050		3,236.8928	3,236.8928	0.0620	0.0593	3,256.1281
Hardware/Paint Store	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2413.01	0.0260	0.2366	0.1987	1.4200e-003		0.0180	0.0180		0.0180	0.0180		283.8840	283.8840	5.4400e-003	5.2000e-003	285.5710
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
Single Family Housing	250561	2.7021	23.0909	9.8259	0.1474		1.8669	1.8669		1.8669	1.8669		29,477.7768	29,477.7768	0.5650	0.5404	29,652.9485
Strip Mall	1689.85	0.0182	0.1657	0.1392	9.9000e-004		0.0126	0.0126		0.0126	0.0126		198.8061	198.8061	3.8100e-003	3.6400e-003	199.9875
Strip Mall	2574.87	0.0278	0.2524	0.2121	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.9260	302.9260	5.8100e-003	5.5500e-003	304.7262
Strip Mall	3718.27	0.0401	0.3645	0.3062	2.1900e-003		0.0277	0.0277		0.0277	0.0277		437.4434	437.4434	8.3800e-003	8.0200e-003	440.0429
Supermarket	4523.29	0.0488	0.4435	0.3725	2.6600e-003		0.0337	0.0337		0.0337	0.0337		532.1515	532.1515	0.0102	9.7600e-003	535.3138
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.2501</b>	<b>36.8258</b>	<b>19.1700</b>	<b>0.2318</b>		<b>2.9365</b>	<b>2.9365</b>		<b>2.9365</b>	<b>2.9365</b>		<b>46,364.9639</b>	<b>46,364.9639</b>	<b>0.8887</b>	<b>0.8500</b>	<b>46,640.4877</b>



Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.38827	0.0258	0.2201	0.0937	1.4000e-003		0.0178	0.0178		0.0178	0.0178		280.9727	280.9727	5.3900e-003	5.1500e-003	282.6424
Apartments Mid Rise	48.9595	0.5280	4.5120	1.9200	0.0288		0.3648	0.3648		0.3648	0.3648		5,759.9413	5,759.9413	0.1104	0.1056	5,794.1697
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0430759	4.6000e-004	4.2200e-003	3.5500e-003	3.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		5.0678	5.0678	1.0000e-004	9.0000e-005	5.0979
Discount Club	2.5454	0.0275	0.2496	0.2096	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.4584	299.4584	5.7400e-003	5.4900e-003	301.2379
Elementary School	8.09285	0.0873	0.7934	0.6665	4.7600e-003		0.0603	0.0603		0.0603	0.0603		952.0999	952.0999	0.0183	0.0175	957.7578
Fast Food Restaurant with Drive Thru	18.0564	0.1947	1.7702	1.4870	0.0106		0.1345	0.1345		0.1345	0.1345		2,124.2856	2,124.2856	0.0407	0.0390	2,136.9091
Gasoline/Service Station	0.266261	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.3248	31.3248	6.0000e-004	5.7000e-004	31.5109
Gasoline/Service Station	0.576898	6.2200e-003	0.0566	0.0475	3.4000e-004		4.3000e-003	4.3000e-003		4.3000e-003	4.3000e-003		67.8704	67.8704	1.3000e-003	1.2400e-003	68.2737
General Office Building	23.7051	0.2556	2.3240	1.9522	0.0139		0.1766	0.1766		0.1766	0.1766		2,788.8377	2,788.8377	0.0535	0.0511	2,805.4103
Hardware/Paint Store	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
High School	8.99205	0.0970	0.8816	0.7405	5.2900e-003		0.0670	0.0670		0.0670	0.0670		1,057.8888	1,057.8888	0.0203	0.0194	1,064.1753
Home Improvement Superstore	2.12116	0.0229	0.2080	0.1747	1.2500e-003		0.0158	0.0158		0.0158	0.0158		249.5487	249.5487	4.7800e-003	4.5800e-003	251.0316
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Pharmacy/Drugstore with Drive Thru	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
Single Family Housing	217.784	2.3487	20.0703	8.5406	0.1281		1.6227	1.6227		1.6227	1.6227		25,621.6440	25,621.6440	0.4911	0.4697	25,773.9006
Strip Mall	1.48547	0.0160	0.1456	0.1223	8.7000e-004		0.0111	0.0111		0.0111	0.0111		174.7609	174.7609	3.3500e-003	3.2000e-003	175.7994
Strip Mall	2.26344	0.0244	0.2219	0.1864	1.3300e-003		0.0169	0.0169		0.0169	0.0169		266.2876	266.2876	5.1000e-003	4.8800e-003	267.8700
Strip Mall	3.26855	0.0353	0.3205	0.2692	1.9200e-003		0.0244	0.0244		0.0244	0.0244		384.5353	384.5353	7.3700e-003	7.0500e-003	386.8204
Supermarket	4.10677	0.0443	0.4026	0.3382	2.4200e-003		0.0306	0.0306		0.0306	0.0306		483.1491	483.1491	9.2600e-003	8.8600e-003	486.0203
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.7260</b>	<b>32.2898</b>	<b>16.8436</b>	<b>0.2032</b>		<b>2.5743</b>	<b>2.5743</b>		<b>2.5743</b>	<b>2.5743</b>		<b>40,647.4924</b>	<b>40,647.4924</b>	<b>0.7791</b>	<b>0.7452</b>	<b>40,889.0401</b>

6.0 Area Detail

6.1 Mitigation Measures Area

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Unmitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24

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	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.17 65	55,341.17 65	1.0607	1.0146	55,670.04 14
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.78 48</b>	<b>56,187.78 48</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.85 24</b>

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.1765	55,341.1765	1.0607	1.0146	55,670.0414
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.7848</b>	<b>56,187.7848</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.8524</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

Jackson CEQA Alt 2 Cumulative VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX G**  
**BUSINESS AS USUAL ORIGINAL PROJECT AND ALTERNATIVE 2**  
**ANNUAL AND DAILY OPERATIONAL EMISSION ESTIMATES**

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**APPENDIX G-1**  
**ORIGINAL PROJECT BAU ANNUAL OPERATIONAL EMISSIONS**

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## Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Annual**

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	298.40	1000sqft	8.22	298,400.00	0
Hospital	433.40	1000sqft	11.94	433,400.00	0
Office Park	0.00	1000sqft	0.00	0.00	0
Pharmacy/Drugstore with Drive Thru	32.30	1000sqft	1.20	32,300.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,123.00	0
Parking Lot	465.20	1000sqft	10.68	465,200.00	0
Parking Lot	386.80	1000sqft	8.88	386,800.00	0
Parking Lot	154.20	1000sqft	3.54	154,200.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	94.10	1000sqft	2.16	94,100.00	0
Parking Lot	271.80	1000sqft	6.24	271,800.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	452.00	1000sqft	10.38	452,000.00	0
Parking Lot	341.50	1000sqft	7.84	341,500.00	0



## Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Parking Lot	173.40	1000sqft	3.98	173,400.00	0
Parking Lot	238.70	1000sqft	5.48	238,700.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Unenclosed Parking with Elevator	173.40	1000sqft	3.98	173,400.00	0
Unenclosed Parking with Elevator	0.00	1000sqft	0.00	0.00	0
City Park	39.20	Acre	39.20	1,707,552.00	0
City Park	39.10	Acre	39.10	1,703,196.00	0
Fast Food Restaurant with Drive Thru	38.70	1000sqft	1.44	38,700.00	0
Apartments Mid Rise	2,137.00	Dwelling Unit	85.00	2,137,000.00	5706
Apartments Mid Rise	100.00	Dwelling Unit	11.76	178,600.00	267
Single Family Housing	2,134.00	Dwelling Unit	355.70	3,841,200.00	5698
Single Family Housing	1,772.00	Dwelling Unit	136.30	3,189,600.00	4731
Convenience Market (24 Hour)	3.20	1000sqft	0.12	3,200.00	0
Discount Club	193.70	1000sqft	7.12	193,700.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.12	3,000.00	0
Hardware/Paint Store	32.30	1000sqft	1.20	32,300.00	0
Home Improvement Superstore	161.40	1000sqft	5.92	161,400.00	0
Strip Mall	113.00	1000sqft	4.16	113,000.00	0
Strip Mall	188.60	1000sqft	6.92	188,600.00	0
Strip Mall	248.40	1000sqft	0.00	248,400.00	0
Supermarket	64.60	1000sqft	2.36	64,600.00	0

## 1.2 Other Project Characteristics

Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	236.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O intensity SMUD default.

Land Use - Non-default from Project Description. Mixed Use Retail lot acreage set to 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,181,312.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,543,935.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,148.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	6,308,820.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	18,926,460.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblConstructionPhase	NumDays	1,395.00	0.00

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tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,237.00
tblFireplaces	NumberGas	0.00	3,906.00
tblFireplaces	NumberNoFireplace	2,237.00	0.00
tblFireplaces	NumberNoFireplace	3,906.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,123.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	6.85	8.22
tblLandUse	LotAcreage	9.95	11.94
tblLandUse	LotAcreage	0.74	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.89	1.44
tblLandUse	LotAcreage	56.24	85.00
tblLandUse	LotAcreage	2.63	11.76
tblLandUse	LotAcreage	692.86	355.70
tblLandUse	LotAcreage	575.32	136.30
tblLandUse	LotAcreage	0.07	0.12

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tblLandUse	LotAcreage	4.45	7.12
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	0.74	1.20
tblLandUse	LotAcreage	3.71	5.92
tblLandUse	LotAcreage	2.59	4.16
tblLandUse	LotAcreage	4.33	6.92
tblLandUse	LotAcreage	5.70	0.00
tblLandUse	LotAcreage	1.48	2.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	590.31	236.9
tblTripsAndVMT	VendorTripNumber	2,207.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	6,812.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	1,362.00	0.00

**2.0 Emissions Summary**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638
Energy	0.9559	8.3287	4.6525	0.0521		0.6604	0.6604		0.6604	0.6604	0.0000	17,657.6676	17,657.6676	1.1849	0.3811	17,800.8446
Mobile	18.6745	97.9421	179.2942	0.7878	88.7410	0.4209	89.1619	23.7599	0.3909	24.1508	0.0000	72,977.9842	72,977.9842	2.9303	0.0000	73,051.2415
Waste						0.0000	0.0000		0.0000	0.0000	3,020.5279	0.0000	3,020.5279	178.5081	0.0000	7,483.2299
Water						0.0000	0.0000		0.0000	0.0000	217.6233	506.9556	724.5790	0.8111	0.4861	889.7139
<b>Total</b>	<b>74.6785</b>	<b>108.3585</b>	<b>247.7304</b>	<b>0.8519</b>	<b>88.7410</b>	<b>1.5427</b>	<b>90.2838</b>	<b>23.7599</b>	<b>1.5127</b>	<b>25.2726</b>	<b>3,238.1512</b>	<b>92,819.7482</b>	<b>96,057.8993</b>	<b>183.5634</b>	<b>0.8960</b>	<b>100,913.9936</b>

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**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	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638
Energy	0.8306	7.2383	4.0509	0.0453		0.5739	0.5739		0.5739	0.5739	0.0000	11,198.5814	11,198.5814	0.5222	0.2261	11,279.0252
Mobile	18.6745	97.9421	179.2942	0.7878	88.7410	0.4209	89.1619	23.7599	0.3909	24.1508	0.0000	72,977.9842	72,977.9842	2.9303	0.0000	73,051.2415
Waste						0.0000	0.0000		0.0000	0.0000	3,020.5279	0.0000	3,020.5279	178.5081	0.0000	7,483.2299
Water						0.0000	0.0000		0.0000	0.0000	217.6233	506.9556	724.5790	0.8111	0.4861	889.7139
<b>Total</b>	<b>74.5532</b>	<b>107.2681</b>	<b>247.1289</b>	<b>0.8451</b>	<b>88.7410</b>	<b>1.4562</b>	<b>90.1972</b>	<b>23.7599</b>	<b>1.4262</b>	<b>25.1861</b>	<b>3,238.1512</b>	<b>86,360.6619</b>	<b>89,598.8131</b>	<b>182.9007</b>	<b>0.7411</b>	<b>94,392.1742</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.17</b>	<b>1.01</b>	<b>0.24</b>	<b>0.80</b>	<b>0.00</b>	<b>5.61</b>	<b>0.10</b>	<b>0.00</b>	<b>5.72</b>	<b>0.34</b>	<b>0.00</b>	<b>6.96</b>	<b>6.72</b>	<b>0.36</b>	<b>17.29</b>	<b>6.46</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

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

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

**Acres of Paving: 84.62**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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**



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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	18.6745	97.9421	179.2942	0.7878	88.7410	0.4209	89.1619	23.7599	0.3909	24.1508	0.0000	72,977.9842	72,977.9842	2.9303	0.0000	73,051.2415
Unmitigated	18.6745	97.9421	179.2942	0.7878	88.7410	0.4209	89.1619	23.7599	0.3909	24.1508	0.0000	72,977.9842	72,977.9842	2.9303	0.0000	73,051.2415



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Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,130.19	3,130.19	3130.19	2,716,022	2,716,022
Single Family Housing	20,315.68	21,147.94	18395.08	51,733,278	51,733,278
Single Family Housing	16,869.44	17,560.52	15274.64	42,957,530	42,957,530
Strip Mall	5,008.16	4,750.52	2308.59	5,638,959	5,638,959
Strip Mall	8,358.75	7,928.74	3853.10	9,411,572	9,411,572
Strip Mall	11,009.09	10,442.74	5074.81	12,395,730	12,395,730
Supermarket	6,604.70	11,472.31	10752.02	6,791,940	6,791,940
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>150,447.70</b>	<b>163,819.48</b>	<b>131,142.43</b>	<b>238,448,655</b>	<b>238,448,655</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	10.00	5.00	6.50	0.90	80.10	19.00	24	15	61
Discount Club	10.00	5.00	6.50	16.70	64.30	19.00	45	40	15
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
Gasoline/Service Station	10.00	5.00	6.50	2.00	79.00	19.00	14	27	59
Gasoline/Service Station	10.00	5.00	6.50	2.00	79.00	19.00	14	27	59
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Hardware/Paint Store	10.00	5.00	6.50	13.60	67.40	19.00	45	29	26
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
Home Improvement Superstore	10.00	5.00	6.50	23.40	57.60	19.00	32	20	48
Hospital	10.00	5.00	6.50	64.90	16.10	19.00	73	25	2

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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
Library	10.00	5.00	6.50	52.00	43.00	5.00	44	44	12
Office Park	10.00	5.00	6.50	33.00	48.00	19.00	82	15	3
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hospital	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Office Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Unenclosed Parking with Elevator	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,978.6014	2,978.6014	0.3646	0.0754	3,010.1979
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	8,197.9374	8,197.9374	1.0036	0.2076	8,284.8999
Natural Gas Mitigated	0.8306	7.2383	4.0509	0.0453		0.5739	0.5739		0.5739	0.5739	0.0000	8,219.9800	8,219.9800	0.1576	0.1507	8,268.8273
Natural Gas Unmitigated	0.9559	8.3287	4.6525	0.0521		0.6604	0.6604		0.6604	0.6604	0.0000	9,459.7302	9,459.7302	0.1813	0.1734	9,515.9447

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

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.08317e+007	0.1123	0.9599	0.4085	6.1300e-003		0.0776	0.0776		0.0776	0.0776	0.0000	1,111.6583	1,111.6583	0.0213	0.0204	1,118.2643
Apartments Mid Rise	974810	5.2600e-003	0.0449	0.0191	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	52.0196	52.0196	1.0000e-003	9.5000e-004	52.3287

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	17344	9.0000e-005	8.5000e-004	7.1000e-004	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.9255	0.9255	2.0000e-005	2.0000e-005	0.9310
Discount Club	1.04985e+006	5.6600e-003	0.0515	0.0432	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	56.0242	56.0242	1.0700e-003	1.0300e-003	56.3571
Elementary School	3.4335e+006	0.0185	0.1683	0.1414	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.2246	183.2246	3.5100e-003	3.3600e-003	184.3135
Fast Food Restaurant with Drive Thru	6.87699e+006	0.0371	0.3371	0.2832	2.0200e-003		0.0256	0.0256		0.0256	0.0256	0.0000	366.9824	366.9824	7.0300e-003	6.7300e-003	369.1632
Gasoline/Service Station	107430	5.8000e-004	5.2700e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	5.7329	5.7329	1.1000e-004	1.1000e-004	5.7669
Gasoline/Service Station	232765	1.2600e-003	0.0114	9.5800e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4212	12.4212	2.4000e-004	2.3000e-004	12.4950
General Office Building	3.90904e+006	0.0211	0.1916	0.1610	1.1500e-003		0.0146	0.0146		0.0146	0.0146	0.0000	208.6013	208.6013	4.0000e-003	3.8200e-003	209.8409
Hardware/Paint Store	175066	9.4000e-004	8.5800e-003	7.2100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3422	9.3422	1.8000e-004	1.7000e-004	9.3977
High School	3.815e+006	0.0206	0.1870	0.1571	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	203.5829	203.5829	3.9000e-003	3.7300e-003	204.7927
Home Improvement Superstore	874788	4.7200e-003	0.0429	0.0360	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	46.6820	46.6820	8.9000e-004	8.6000e-004	46.9594
Hospital	2.92632e+007	0.1578	1.4345	1.2050	8.6100e-003		0.1090	0.1090		0.1090	0.1090	0.0000	1,561.5941	1,561.5941	0.0299	0.0286	1,570.8739
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	175066	9.4000e-004	8.5800e-003	7.2100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3422	9.3422	1.8000e-004	1.7000e-004	9.3977
Single Family Housing	4.57791e+007	0.2469	2.1094	0.8976	0.0135		0.1706	0.1706		0.1706	0.1706	0.0000	2,442.9456	2,442.9456	0.0468	0.0448	2,457.4628

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	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					
Single Family Housing	5.51312e+007	0.2973	2.5404	1.0810	0.0162		0.2054	0.2054		0.2054	0.2054	0.0000	2,942.0123	2,942.0123	0.0564	0.0539	2,959.4952
Strip Mall	1.02221e+006	5.5100e-003	0.0501	0.0421	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.5491	54.5491	1.0500e-003	1.0000e-003	54.8733
Strip Mall	1.34633e+006	7.2600e-003	0.0660	0.0554	4.0000e-004		5.0200e-003	5.0200e-003		5.0200e-003	5.0200e-003	0.0000	71.8452	71.8452	1.3800e-003	1.3200e-003	72.2721
Strip Mall	612460	3.3000e-003	0.0300	0.0252	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6832	32.6832	6.3000e-004	6.0000e-004	32.8774
Supermarket	1.64084e+006	8.8500e-003	0.0804	0.0676	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.5615	87.5615	1.6800e-003	1.6100e-003	88.0818
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.9559</b>	<b>8.3287</b>	<b>4.6524</b>	<b>0.0522</b>		<b>0.6604</b>	<b>0.6604</b>		<b>0.6604</b>	<b>0.6604</b>	<b>0.0000</b>	<b>9,459.7303</b>	<b>9,459.7303</b>	<b>0.1813</b>	<b>0.1735</b>	<b>9,515.9447</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	865363	4.6700e-003	0.0399	0.0170	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.1791	46.1791	8.9000e-004	8.5000e-004	46.4535
Apartments Mid Rise	1.84928e+007	0.0997	0.8521	0.3626	5.4400e-003		0.0689	0.0689		0.0689	0.0689	0.0000	986.8466	986.8466	0.0189	0.0181	992.7109
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	15117	8.0000e-005	7.4000e-004	6.2000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8067	0.8067	2.0000e-005	1.0000e-005	0.8115



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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Discount Club	915048	4.9300e-003	0.0449	0.0377	2.7000e-004		3.4100e-003	3.4100e-003		3.4100e-003	3.4100e-003	0.0000	48.8305	48.8305	9.4000e-004	9.0000e-004	49.1207
Elementary School	2.92433e+006	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	156.0531	156.0531	2.9900e-003	2.8600e-003	156.9805
Fast Food Restaurant with Drive Thru	6.51912e+006	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8850	347.8850	6.6700e-003	6.3800e-003	349.9524
Gasoline/Service Station	209200	1.1300e-003	0.0103	8.6100e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.1637	11.1637	2.1000e-004	2.0000e-004	11.2300
Gasoline/Service Station	96553.7	5.2000e-004	4.7300e-003	3.9800e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1525	5.1525	1.0000e-004	9.0000e-005	5.1831
General Office Building	3.33459e+006	0.0180	0.1635	0.1373	9.8000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	177.9464	177.9464	3.4100e-003	3.2600e-003	179.0039
Hardware/Paint Store	152587	8.2000e-004	7.4800e-003	6.2800e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	8.1426	8.1426	1.6000e-004	1.5000e-004	8.1910
High School	3.24925e+006	0.0175	0.1593	0.1338	9.6000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	173.3924	173.3924	3.3200e-003	3.1800e-003	174.4227
Home Improvement Superstore	762462	4.1100e-003	0.0374	0.0314	2.2000e-004		2.8400e-003	2.8400e-003		2.8400e-003	2.8400e-003	0.0000	40.6879	40.6879	7.8000e-004	7.5000e-004	40.9297
Hospital	2.53729e+007	0.1368	1.2438	1.0448	7.4600e-003		0.0945	0.0945		0.0945	0.0945	0.0000	1,353.9971	1,353.9971	0.0260	0.0248	1,362.0433
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	152587	8.2000e-004	7.4800e-003	6.2800e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	8.1426	8.1426	1.6000e-004	1.5000e-004	8.1910
Single Family Housing	3.94213e+007	0.2126	1.8165	0.7730	0.0116		0.1469	0.1469		0.1469	0.1469	0.0000	2,103.6721	2,103.6721	0.0403	0.0386	2,116.1732
Single Family Housing	4.74747e+007	0.2560	2.1876	0.9309	0.0140		0.1769	0.1769		0.1769	0.1769	0.0000	2,533.4290	2,533.4290	0.0486	0.0465	2,548.4839
Strip Mall	1.17345e+006	6.3300e-003	0.0575	0.0483	3.5000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003	0.0000	62.6200	62.6200	1.2000e-003	1.1500e-003	62.9921

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Strip Mall	533818	2.8800e-003	0.0262	0.0220	1.6000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	28.4865	28.4865	5.5000e-004	5.2000e-004	28.6558
Strip Mall	890956	4.8000e-003	0.0437	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003	0.0000	47.5448	47.5448	9.1000e-004	8.7000e-004	47.8273
Supermarket	1.48043e+006	7.9800e-003	0.0726	0.0610	4.4000e-004		5.5200e-003	5.5200e-003		5.5200e-003	5.5200e-003	0.0000	79.0015	79.0015	1.5100e-003	1.4500e-003	79.4709
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.8306</b>	<b>7.2383</b>	<b>4.0509</b>	<b>0.0453</b>		<b>0.5739</b>	<b>0.5739</b>		<b>0.5739</b>	<b>0.5739</b>	<b>0.0000</b>	<b>8,219.9800</b>	<b>8,219.9800</b>	<b>0.1576</b>	<b>0.1507</b>	<b>8,268.8273</b>

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	425646	45.7382	5.6000e-003	1.1600e-003	46.2234
Apartments Mid Rise	9.09606e+006	977.4260	0.1197	0.0248	987.7944
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	37024	3.9785	4.9000e-004	1.0000e-004	4.0207
Discount Club	2.24111e+006	240.8207	0.0295	6.1000e-003	243.3753
Elementary School	1.647e+006	176.9801	0.0217	4.4800e-003	178.8575

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	1.61418e+006	173.4531	0.0212	4.3900e-003	175.2930
Gasoline/Service Station	45540	4.8936	6.0000e-004	1.2000e-004	4.9455
Gasoline/Service Station	98670	10.6027	1.3000e-003	2.7000e-004	10.7152
General Office Building	4.3089e+006	463.0169	0.0567	0.0117	467.9285
Hardware/Paint Store	373711	40.1575	4.9200e-003	1.0200e-003	40.5835
High School	1.83e+006	196.6445	0.0241	4.9800e-003	198.7305
Home Improvement Superstore	1.8674e+006	200.6632	0.0246	5.0800e-003	202.7918
Hospital	8.81102e+006	946.7975	0.1159	0.0240	956.8410
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	119525	12.8437	1.5700e-003	3.3000e-004	12.9799
Parking Lot	135380	14.5474	1.7800e-003	3.7000e-004	14.7017
Parking Lot	158200	16.9995	2.0800e-003	4.3000e-004	17.1799
Parking Lot	162820	17.4960	2.1400e-003	4.4000e-004	17.6816
Parking Lot	213430	22.9343	2.8100e-003	5.8000e-004	23.1776
Parking Lot	2730	0.5867	7.0000e-005	1.0000e-005	0.5929

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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Parking Lot	27440	5.8972	7.2000e-004	1.5000e-004	5.9597
Parking Lot	32935	3.5391	4.3000e-004	9.0000e-005	3.5766
Parking Lot	47880	5.1450	6.3000e-004	1.3000e-004	5.1996
Parking Lot	53970	5.7994	7.1000e-004	1.5000e-004	5.8609
Parking Lot	5495	0.5905	7.0000e-005	1.0000e-005	0.5967
Parking Lot	60690	6.5215	8.0000e-004	1.7000e-004	6.5907
Parking Lot	83545	8.9774	1.1000e-003	2.3000e-004	9.0727
Parking Lot	95130	10.2223	1.2500e-003	2.6000e-004	10.3307
Pharmacy/Drugstore with Drive Thru	373711	40.1575	4.9200e-003	1.0200e-003	40.5835
Single Family Housing	1.49624e+007	1,607.7978	0.1968	0.0407	1,624.8531
Single Family Housing	1.8019e+007	1,936.2531	0.2370	0.0490	1,956.7926
Strip Mall	1.30741e+006	140.4891	0.0172	3.5600e-003	141.9794
Strip Mall	2.1821e+006	234.4800	0.0287	5.9400e-003	236.9674
Strip Mall	2.87399e+006	308.8274	0.0378	7.8200e-003	312.1033
Supermarket	2.61049e+006	280.5125	0.0343	7.1000e-003	283.4881
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	336396	36.1478	4.4300e-003	9.2000e-004	36.5312

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8,197.9374</b>	<b>1.0035</b>	<b>0.2076</b>	<b>8,284.8999</b>

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	156520	16.8190	2.0600e-003	4.3000e-004	16.9974
Apartments Mid Rise	3.34482e+006	359.4216	0.0440	9.1000e-003	363.2343
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	13242.2	1.4230	1.7000e-004	4.0000e-005	1.4381
Discount Club	801569	86.1334	0.0105	2.1800e-003	87.0471
Elementary School	589239	63.3173	7.7500e-003	1.6000e-003	63.9890
Fast Food Restaurant with Drive Thru	583960	62.7500	7.6800e-003	1.5900e-003	63.4157
Gasoline/Service Station	16438.9	1.7665	2.2000e-004	4.0000e-005	1.7852
Gasoline/Service Station	35617.7	3.8273	4.7000e-004	1.0000e-004	3.8679
General Office Building	1.52538e+006	163.9115	0.0201	4.1500e-003	165.6502

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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Hardware/Paint Store	133664	14.3630	1.7600e-003	3.6000e-004	14.5153
High School	654710	70.3526	8.6100e-003	1.7800e-003	71.0989
Home Improvement Superstore	667905	71.7704	8.7900e-003	1.8200e-003	72.5318
Hospital	3.06468e+006	329.3186	0.0403	8.3400e-003	332.8119
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1021.02	0.2194	3.0000e-005	1.0000e-005	0.2218
Parking Lot	10262.6	2.2056	2.7000e-004	6.0000e-005	2.2289
Parking Lot	12317.7	1.3236	1.6000e-004	3.0000e-005	1.3377
Parking Lot	17907.1	1.9242	2.4000e-004	5.0000e-005	1.9446
Parking Lot	20184.8	2.1690	2.7000e-004	5.0000e-005	2.1920
Parking Lot	2055.13	0.2208	3.0000e-005	1.0000e-005	0.2232
Parking Lot	22698.1	2.4390	3.0000e-004	6.0000e-005	2.4649
Parking Lot	31245.8	3.3576	4.1000e-004	9.0000e-005	3.3932
Parking Lot	35578.6	3.8231	4.7000e-004	1.0000e-004	3.8637
Parking Lot	44702.3	4.8035	5.9000e-004	1.2000e-004	4.8545
Parking Lot	50632.1	5.4407	6.7000e-004	1.4000e-004	5.4984

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	59166.8	6.3578	7.8000e-004	1.6000e-004	6.4253
Parking Lot	60894.7	6.5435	8.0000e-004	1.7000e-004	6.6129
Parking Lot	79822.8	8.5774	1.0500e-003	2.2000e-004	8.6684
Pharmacy/Drugstore with Drive Thru	133664	14.3630	1.7600e-003	3.6000e-004	14.5153
Single Family Housing	5.52618e+006	593.8218	0.0727	0.0150	600.1210
Single Family Housing	6.65512e+006	715.1330	0.0875	0.0181	722.7190
Strip Mall	1.02793e+006	110.4571	0.0135	2.8000e-003	111.6288
Strip Mall	467616	50.2482	6.1500e-003	1.2700e-003	50.7812
Strip Mall	780464	83.8656	0.0103	2.1200e-003	84.7552
Supermarket	954939	102.6139	0.0126	2.6000e-003	103.7024
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	125812	13.5193	1.6500e-003	3.4000e-004	13.6627
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,978.6014</b>	<b>0.3646</b>	<b>0.0754</b>	<b>3,010.1979</b>

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638
Unmitigated	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638

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	6.9946					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	45.9999					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1590	1.3587	0.5782	8.6700e-003		0.1099	0.1099		0.1099	0.1099	0.0000	1,573.5066	1,573.5066	0.0302	0.0289	1,582.8572
Landscaping	1.8946	0.7290	63.2057	3.3500e-003		0.3516	0.3516		0.3516	0.3516	0.0000	103.6341	103.6341	0.0989	0.0000	106.1066
<b>Total</b>	<b>55.0481</b>	<b>2.0877</b>	<b>63.7838</b>	<b>0.0120</b>		<b>0.4614</b>	<b>0.4614</b>		<b>0.4614</b>	<b>0.4614</b>	<b>0.0000</b>	<b>1,677.1407</b>	<b>1,677.1407</b>	<b>0.1291</b>	<b>0.0289</b>	<b>1,688.9638</b>



Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, 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	6.9946					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	45.9999					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1590	1.3587	0.5782	8.6700e-003		0.1099	0.1099		0.1099	0.1099	0.0000	1,573.5066	1,573.5066	0.0302	0.0289	1,582.8572
Landscaping	1.8946	0.7290	63.2057	3.3500e-003		0.3516	0.3516		0.3516	0.3516	0.0000	103.6341	103.6341	0.0989	0.0000	106.1066
<b>Total</b>	<b>55.0481</b>	<b>2.0877</b>	<b>63.7838</b>	<b>0.0120</b>		<b>0.4614</b>	<b>0.4614</b>		<b>0.4614</b>	<b>0.4614</b>	<b>0.0000</b>	<b>1,677.1407</b>	<b>1,677.1407</b>	<b>0.1291</b>	<b>0.0289</b>	<b>1,688.9638</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	724.5790	0.8111	0.4861	889.7139
Unmitigated	724.5790	0.8111	0.4861	889.7139

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	145.75 / 91.8856	164.1601	0.1913	0.1150	203.2094
City Park	0 / 93.293	35.0871	4.3000e-003	8.9000e-004	35.4593
Convenience Market (24 Hour)	0.237032 / 0.145278	0.2654	3.1000e-004	1.9000e-004	0.3289
Discount Club	14.3478 / 8.79384	16.0656	0.0188	0.0113	19.9087
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.7468 / 0.749793	10.7274	0.0151	9.2000e-003	13.8480

Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	53.0358 / 32.5058	59.3853	0.0696	0.0418	73.5910
Hardware/Paint Store	2.39254 / 1.4664	2.6790	3.1400e-003	1.8900e-003	3.3198
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	11.9553 / 7.32744	13.3866	0.0157	9.4300e-003	16.5889
Hospital	54.3833 / 10.3587	52.2541	0.0703	0.0427	66.7291
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.27546 / 1.39463	2.5479	2.9800e-003	1.7900e-003	3.1574
Single Family Housing	254.492 / 160.44	286.6380	0.3340	0.2008	354.8215
Strip Mall	40.7399 / 24.9696	45.6174	0.0534	0.0321	56.5296
Supermarket	7.96313 / 0.246282	7.1735	0.0102	6.2400e-003	9.2880
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>724.5789</b>	<b>0.8111</b>	<b>0.4861</b>	<b>889.7139</b>

7.2 Water by Land Use

## Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	145.75 / 91.8856	164.1601	0.1913	0.1150	203.2094
City Park	0 / 93.293	35.0871	4.3000e-003	8.9000e-004	35.4593
Convenience Market (24 Hour)	0.237032 / 0.145278	0.2654	3.1000e-004	1.9000e-004	0.3289
Discount Club	14.3478 / 8.79384	16.0656	0.0188	0.0113	19.9087
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.7468 / 0.749793	10.7274	0.0151	9.2000e-003	13.8480
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	53.0358 / 32.5058	59.3853	0.0696	0.0418	73.5910
Hardware/Paint Store	2.39254 / 1.4664	2.6790	3.1400e-003	1.8900e-003	3.3198
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	11.9553 / 7.32744	13.3866	0.0157	9.4300e-003	16.5889
Hospital	54.3833 / 10.3587	52.2541	0.0703	0.0427	66.7291
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000

Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Pharmacy/Drugstore with Drive Thru	2.27546 / 1.39463	2.5479	2.9800e-003	1.7900e-003	3.1574
Single Family Housing	254.492 / 160.44	286.6380	0.3340	0.2008	354.8215
Strip Mall	40.7399 / 24.9696	45.6174	0.0534	0.0321	56.5296
Supermarket	7.96313 / 0.246282	7.1735	0.0102	6.2400e-003	9.2880
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>724.5789</b>	<b>0.8111</b>	<b>0.4861</b>	<b>889.7139</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3,020.5279	178.5081	0.0000	7,483.2299
Unmitigated	3,020.5279	178.5081	0.0000	7,483.2299

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1029.02	208.8818	12.3446	0.0000	517.4957
City Park	6.73	1.3661	0.0807	0.0000	3.3845
Convenience Market (24 Hour)	9.62	1.9528	0.1154	0.0000	4.8379
Discount Club	833.05	169.1016	9.9936	0.0000	418.9421
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	445.78	90.4893	5.3478	0.0000	224.1834

Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	277.51	56.3320	3.3291	0.0000	139.5602
Hardware/Paint Store	358.18	72.7073	4.2969	0.0000	180.1293
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1789.79	363.3112	21.4711	0.0000	900.0881
Hospital	4680.72	950.1439	56.1519	0.0000	2,353.9412
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.13	19.7165	1.1652	0.0000	48.8468
Single Family Housing	3754.44	762.1174	45.0399	0.0000	1,888.1136
Strip Mall	577.5	117.2273	6.9279	0.0000	290.4256
Supermarket	364.34	73.9577	4.3708	0.0000	183.2271
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3,020.5279</b>	<b>178.5081</b>	<b>0.0000</b>	<b>7,483.2299</b>

8.2 Waste by Land Use

## Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1029.02	208.8818	12.3446	0.0000	517.4957
City Park	6.73	1.3661	0.0807	0.0000	3.3845
Convenience Market (24 Hour)	9.62	1.9528	0.1154	0.0000	4.8379
Discount Club	833.05	169.1016	9.9936	0.0000	418.9421
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	445.78	90.4893	5.3478	0.0000	224.1834
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	277.51	56.3320	3.3291	0.0000	139.5602
Hardware/Paint Store	358.18	72.7073	4.2969	0.0000	180.1293
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1789.79	363.3112	21.4711	0.0000	900.0881
Hospital	4680.72	950.1439	56.1519	0.0000	2,353.941 2
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000



Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Pharmacy/Drugstore with Drive Thru	97.13	19.7165	1.1652	0.0000	48.8468
Single Family Housing	3754.44	762.1174	45.0399	0.0000	1,888.1136
Strip Mall	577.5	117.2273	6.9279	0.0000	290.4256
Supermarket	364.34	73.9577	4.3708	0.0000	183.2271
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3,020.5279</b>	<b>178.5081</b>	<b>0.0000</b>	<b>7,483.2299</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

## **11.0 Vegetation**

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**APPENDIX G-2**  
**ALTERNATIVE 2 BAU ANNUAL OPERATIONAL EMISSIONS**

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Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	766.60	1000sqft	21.36	766,600.00	0
Pharmacy/Drugstore with Drive Thru	32.50	1000sqft	1.20	32,500.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,213.00	0
Parking Lot	468.30	1000sqft	10.75	468,300.00	0
Parking Lot	390.30	1000sqft	8.96	390,300.00	0
Parking Lot	156.80	1000sqft	3.60	156,800.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	93.70	1000sqft	2.15	93,700.00	0
Parking Lot	273.10	1000sqft	6.27	273,100.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.40	1000sqft	0.17	7,400.00	0
Parking Lot	416.00	1000sqft	9.55	416,000.00	0
Parking Lot	343.20	1000sqft	7.88	343,200.00	0
Parking Lot	613.30	1000sqft	14.08	613,300.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0

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Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
City Park	40.60	Acre	40.60	1,768,536.00	0
City Park	38.20	Acre	38.20	1,663,992.00	0
Fast Food Restaurant with Drive Thru	39.00	1000sqft	1.43	39,000.00	0
Apartments Mid Rise	2,050.00	Dwelling Unit	82.00	2,050,000.00	5474
Apartments Mid Rise	100.00	Dwelling Unit	11.82	178,600.00	267
Single Family Housing	3,540.00	Dwelling Unit	507.10	6,372,000.00	9452
Convenience Market (24 Hour)	3.30	1000sqft	0.12	3,300.00	0
Discount Club	195.00	1000sqft	7.16	195,000.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.11	3,000.00	0
Hardware/Paint Store	32.50	1000sqft	1.20	32,500.00	0
Home Improvement Superstore	162.50	1000sqft	5.97	162,500.00	0
Strip Mall	113.80	1000sqft	4.18	113,800.00	0
Strip Mall	173.40	1000sqft	6.37	173,400.00	0
Strip Mall	250.40	1000sqft	0.00	250,400.00	0
Supermarket	65.00	1000sqft	2.40	65,000.00	0

1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	236.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

1.3 User Entered Comments & Non-Default Data

## Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O are default for SMUD.

Land Use - Land use and acreages per Applicant. Acreage for Multi-use shopping entered as 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,194,357.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,583,070.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,292.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	5,805,405.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	17,416,215.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00

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tblFireplaces	NumberGas	0.00	2,150.00
tblFireplaces	NumberGas	0.00	3,540.00
tblFireplaces	NumberNoFireplace	2,150.00	0.00
tblFireplaces	NumberNoFireplace	3,540.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,213.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	17.60	21.36
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.90	1.43
tblLandUse	LotAcreage	2.63	11.82
tblLandUse	LotAcreage	53.95	82.00
tblLandUse	LotAcreage	1,149.35	507.10
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	4.48	7.16
tblLandUse	LotAcreage	0.08	0.11
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	3.73	5.97
tblLandUse	LotAcreage	2.61	4.18
tblLandUse	LotAcreage	3.98	6.37
tblLandUse	LotAcreage	5.75	0.00
tblLandUse	LotAcreage	1.49	2.40

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	590.31	236.9
tblTripsAndVMT	VendorTripNumber	2,167.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	6,636.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	1,327.00	0.00

## 2.0 Emissions Summary

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		



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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Energy	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	15,243.7269	15,243.7269	1.0735	0.3324	15,369.6177
Mobile	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184
Waste						0.0000	0.0000		0.0000	0.0000	2,082.0255	0.0000	2,082.0255	123.0442	0.0000	5,158.1301
Water						0.0000	0.0000		0.0000	0.0000	217.1821	514.6403	731.8224	0.8105	0.4853	896.7150
<b>Total</b>	<b>70.1964</b>	<b>101.8548</b>	<b>231.4997</b>	<b>0.7900</b>	<b>82.9779</b>	<b>1.3278</b>	<b>84.3057</b>	<b>22.2169</b>	<b>1.2996</b>	<b>23.5164</b>	<b>2,299.2076</b>	<b>85,325.2663</b>	<b>87,624.4739</b>	<b>127.8077</b>	<b>0.8361</b>	<b>91,068.8361</b>

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**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	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Energy	0.6800	5.8929	3.0740	0.0371		0.4698	0.4698		0.4698	0.4698	0.0000	9,511.1817	9,511.1817	0.4695	0.1938	9,580.6787
Mobile	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184
Waste						0.0000	0.0000		0.0000	0.0000	2,082.0255	0.0000	2,082.0255	123.0442	0.0000	5,158.1301
Water						0.0000	0.0000		0.0000	0.0000	217.1821	514.6403	731.8224	0.8105	0.4853	896.7150
<b>Total</b>	<b>70.1007</b>	<b>101.0270</b>	<b>231.0751</b>	<b>0.7848</b>	<b>82.9779</b>	<b>1.2618</b>	<b>84.2396</b>	<b>22.2169</b>	<b>1.2335</b>	<b>23.4504</b>	<b>2,299.2076</b>	<b>79,592.7211</b>	<b>81,891.9287</b>	<b>127.2037</b>	<b>0.6976</b>	<b>85,279.8972</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.14</b>	<b>0.81</b>	<b>0.18</b>	<b>0.66</b>	<b>0.00</b>	<b>4.98</b>	<b>0.08</b>	<b>0.00</b>	<b>5.08</b>	<b>0.28</b>	<b>0.00</b>	<b>6.72</b>	<b>6.54</b>	<b>0.47</b>	<b>16.57</b>	<b>6.36</b>

**3.0 Construction Detail**

**Construction Phase**

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

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

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

**Acres of Paving: 84.67**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184
Unmitigated	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	13,632.50	13,099.50	12013.00	34,193,402	34,193,402
Apartments Mid Rise	665.00	639.00	586.00	1,667,971	1,667,971
City Park	76.73	923.65	679.64	523,693	523,693
City Park	72.20	869.05	639.47	492,736	492,736
Convenience Market (24 Hour)	2,435.37	2,848.23	2502.89	1,403,707	1,403,707
Discount Club	8,151.00	10,481.25	6565.65	10,162,268	10,162,268
Elementary School	3,471.75	0.00	0.00	5,214,694	5,214,694
Fast Food Restaurant with Drive Thru	19,348.68	28,159.17	21166.08	14,414,777	14,414,777
Gasoline/Service Station	8,090.88	8,090.88	8090.88	3,464,556	3,464,556
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,732,278	1,732,278
General Office Building	8,455.60	1,885.84	804.93	13,266,451	13,266,451
Hardware/Paint Store	1,666.93	2,681.90	2231.13	2,164,945	2,164,945
High School	3,222.50	1,092.50	447.50	6,568,328	6,568,328
Home Improvement Superstore	4,995.25	9,217.00	9067.50	5,480,713	5,480,713
Library	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,149.58	3,149.58	3149.58	2,732,839	2,732,839
Single Family Housing	33,700.80	35,081.40	30514.80	85,818,090	85,818,090



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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
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix



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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,781.5335	2,781.5335	0.3405	0.0705	2,811.0396
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7,567.4871	7,567.4871	0.9264	0.1917	7,647.7619
NaturalGas Mitigated	0.6800	5.8929	3.0740	0.0371		0.4698	0.4698		0.4698	0.4698	0.0000	6,729.6482	6,729.6482	0.1290	0.1234	6,769.6392
NaturalGas Unmitigated	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	7,676.2398	7,676.2398	0.1471	0.1407	7,721.8558

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 Mid Rise	1.99836e+007	0.1078	0.9208	0.3918	5.8800e-003		0.0745	0.0745		0.0745	0.0745	0.0000	1,066.4013	1,066.4013	0.0204	0.0196	1,072.7384
Apartments Mid Rise	974810	5.2600e-003	0.0449	0.0191	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	52.0196	52.0196	1.0000e-003	9.5000e-004	52.3287
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	17886	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9545	0.9545	2.0000e-005	2.0000e-005	0.9601
Discount Club	1.0569e+006	5.7000e-003	0.0518	0.0435	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4002	56.4002	1.0800e-003	1.0300e-003	56.7354



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Total		0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	7,676.2398	7,676.2398	0.1471	0.1407	7,721.8558
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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	871718	4.7000e-003	0.0402	0.0171	2.6000e-004		3.2500e-003	3.2500e-003		3.2500e-003	3.2500e-003	0.0000	46.5182	46.5182	8.9000e-004	8.5000e-004	46.7946
Apartments Mid Rise	1.78702e+007	0.0964	0.8234	0.3504	5.2600e-003		0.0666	0.0666		0.0666	0.0666	0.0000	953.6229	953.6229	0.0183	0.0175	959.2898
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	15722.7	8.0000e-005	7.7000e-004	6.5000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8390	0.8390	2.0000e-005	2.0000e-005	0.8440
Discount Club	929070	5.0100e-003	0.0455	0.0383	2.7000e-004		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	49.5787	49.5787	9.5000e-004	9.1000e-004	49.8733
Elementary School	2.95389e+006	0.0159	0.1448	0.1216	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.6308	157.6308	3.0200e-003	2.8900e-003	158.5675
Fast Food Restaurant with Drive Thru	6.5906e+006	0.0355	0.3231	0.2714	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	351.6993	351.6993	6.7400e-003	6.4500e-003	353.7893
Gasoline/Service Station	210568	1.1400e-003	0.0103	8.6700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.2367	11.2367	2.2000e-004	2.1000e-004	11.3035
Gasoline/Service Station	97185.2	5.2000e-004	4.7600e-003	4.0000e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1862	5.1862	1.0000e-004	1.0000e-004	5.2170
General Office Building	8.65237e+006	0.0467	0.4241	0.3563	2.5400e-003		0.0322	0.0322		0.0322	0.0322	0.0000	461.7234	461.7234	8.8500e-003	8.4600e-003	464.4672
Hardware/Paint Store	154845	8.3000e-004	7.5900e-003	6.3800e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2631	8.2631	1.6000e-004	1.5000e-004	8.3122
High School	3.2821e+006	0.0177	0.1609	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	175.1454	175.1454	3.3600e-003	3.2100e-003	176.1862
Home Improvement Superstore	774225	4.1700e-003	0.0380	0.0319	2.3000e-004		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	41.3156	41.3156	7.9000e-004	7.6000e-004	41.5611

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	154845	8.3000e-004	7.5900e-003	6.3800e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2631	8.2631	1.6000e-004	1.5000e-004	8.3122	
Single Family Housing	7.94912e+007	0.4286	3.6628	1.5587	0.0234		0.2961	0.2961		0.2961	0.2961	0.0000	4,241.9505	4,241.9505	0.0813	0.0778	4,267.1583	
Strip Mall	1.19302e+006	6.4300e-003	0.0585	0.0491	3.5000e-004		4.4400e-003	4.4400e-003		4.4400e-003	4.4400e-003	0.0000	63.6641	63.6641	1.2200e-003	1.1700e-003	64.0425	
Strip Mall	542196	2.9200e-003	0.0266	0.0223	1.6000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	28.9336	28.9336	5.5000e-004	5.3000e-004	29.1056	
Strip Mall	826157	4.4500e-003	0.0405	0.0340	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	44.0869	44.0869	8.4000e-004	8.1000e-004	44.3489	
Supermarket	1.49897e+006	8.0800e-003	0.0735	0.0617	4.4000e-004		5.5800e-003	5.5800e-003		5.5800e-003	5.5800e-003	0.0000	79.9908	79.9908	1.5300e-003	1.4700e-003	80.4661	
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>		<b>0.6800</b>	<b>5.8929</b>	<b>3.0740</b>	<b>0.0371</b>		<b>0.4698</b>	<b>0.4698</b>		<b>0.4698</b>	<b>0.4698</b>	<b>0.0000</b>	<b>6,729.6482</b>	<b>6,729.6482</b>	<b>0.1290</b>	<b>0.1234</b>	<b>6,769.6392</b>	

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	425646	45.7382	5.6000e-003	1.1600e-003	46.2234
Apartments Mid Rise	8.72574e+006	937.6337	0.1148	0.0238	947.5800

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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	38181	4.1028	5.0000e-004	1.0000e-004	4.1463
Discount Club	2.25615e+006	242.4369	0.0297	6.1400e-003	245.0087
Elementary School	1.647e+006	176.9801	0.0217	4.4800e-003	178.8575
Fast Food Restaurant with Drive Thru	1.62669e+006	174.7977	0.0214	4.4300e-003	176.6519
Gasoline/Service Station	45540	4.8936	6.0000e-004	1.2000e-004	4.9455
Gasoline/Service Station	98670	10.6027	1.3000e-003	2.7000e-004	10.7152
General Office Building	1.10697e+007	1,189.5065	0.1456	0.0301	1,202.1246
Hardware/Paint Store	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
High School	1.83e+006	196.6445	0.0241	4.9800e-003	198.7305
Home Improvement Superstore	1.88013e+006	202.0308	0.0247	5.1200e-003	204.1739
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	120120	12.9076	1.5800e-003	3.3000e-004	13.0445
Parking Lot	136605	14.6790	1.8000e-003	3.7000e-004	14.8347
Parking Lot	145600	15.6456	1.9200e-003	4.0000e-004	15.8116
Parking Lot	163905	17.6126	2.1600e-003	4.5000e-004	17.7994

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	213430	22.9343	2.8100e-003	5.8000e-004	23.1776
Parking Lot	214655	23.0660	2.8200e-003	5.8000e-004	23.3107
Parking Lot	2590	0.2783	3.0000e-005	1.0000e-005	0.2813
Parking Lot	2730	0.2934	4.0000e-005	1.0000e-005	0.2965
Parking Lot	27300	5.8671	7.2000e-004	1.5000e-004	5.9293
Parking Lot	32795	3.5240	4.3000e-004	9.0000e-005	3.5614
Parking Lot	47880	5.1450	6.3000e-004	1.3000e-004	5.1996
Parking Lot	54880	5.8972	7.2000e-004	1.5000e-004	5.9597
Parking Lot	5495	0.5905	7.0000e-005	1.0000e-005	0.5967
Parking Lot	95585	10.2712	1.2600e-003	2.6000e-004	10.3801
Pharmacy/Drugstore with Drive Thru	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
Single Family Housing	2.9891e+007	3,211.9663	0.3932	0.0814	3,246.0383
Strip Mall	1.31667e+006	141.4837	0.0173	3.5800e-003	142.9845
Strip Mall	2.00624e+006	215.5824	0.0264	5.4600e-003	217.8692
Strip Mall	2.89713e+006	311.3139	0.0381	7.8800e-003	314.6163
Supermarket	2.62665e+006	282.2494	0.0346	7.1500e-003	285.2435
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000

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<b>Total</b>		<b>7,567.487 1</b>	<b>0.9264</b>	<b>0.1917</b>	<b>7,647.761 9</b>
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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	157932	16.9707	2.0800e-003	4.3000e-004	17.1507
Apartments Mid Rise	3.2376e+006	347.8993	0.0426	8.8100e-003	351.5898
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	13802.1	1.4831	1.8000e-004	4.0000e-005	1.4989
Discount Club	815578	87.6388	0.0107	2.2200e-003	88.5685
Elementary School	595531	63.9934	7.8300e-003	1.6200e-003	64.6722
Fast Food Restaurant with Drive Thru	594372	63.8688	7.8200e-003	1.6200e-003	64.5463
Gasoline/Service Station	16605.5	1.7844	2.2000e-004	5.0000e-005	1.8033
Gasoline/Service Station	35978.6	3.8661	4.7000e-004	1.0000e-004	3.9071
General Office Building	3.96315e+006	425.8640	0.0521	0.0108	430.3815
Hardware/Paint Store	135930	14.6065	1.7900e-003	3.7000e-004	14.7614
High School	661701	71.1038	8.7000e-003	1.8000e-003	71.8580
Home Improvement Superstore	679649	73.0323	8.9400e-003	1.8500e-003	73.8071



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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1029.21	0.1106	1.0000e-005	0.0000	0.1118
Parking Lot	10292.1	2.2119	2.7000e-004	6.0000e-005	2.2354
Parking Lot	12363.7	1.3286	1.6000e-004	3.0000e-005	1.3427
Parking Lot	18050.8	1.9397	2.4000e-004	5.0000e-005	1.9602
Parking Lot	20689.8	2.2232	2.7000e-004	6.0000e-005	2.2468
Parking Lot	2071.61	0.2226	3.0000e-005	1.0000e-005	0.2250
Parking Lot	36035.5	3.8722	4.7000e-004	1.0000e-004	3.9133
Parking Lot	45285.2	4.8662	6.0000e-004	1.2000e-004	4.9178
Parking Lot	51500.1	5.5340	6.8000e-004	1.4000e-004	5.5927
Parking Lot	54891.2	5.8984	7.2000e-004	1.5000e-004	5.9610
Parking Lot	61792.2	6.6399	8.1000e-004	1.7000e-004	6.7104
Parking Lot	80463.1	8.6463	1.0600e-003	2.2000e-004	8.7380
Parking Lot	80924.9	8.6959	1.0600e-003	2.2000e-004	8.7881
Parking Lot	976.43	0.1049	1.0000e-005	0.0000	0.1060
Pharmacy/Drugstore with Drive Thru	135930	14.6065	1.7900e-003	3.7000e-004	14.7614
Single Family Housing	1.11366e+007	1,196.6952	0.1465	0.0303	1,209.3896

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	1.04729e+006	112.5372	0.0138	2.8500e-003	113.7310
Strip Mall	475963	51.1451	6.2600e-003	1.3000e-003	51.6877
Strip Mall	725237	77.9311	9.5400e-003	1.9700e-003	78.7578
Supermarket	969818	104.2128	0.0128	2.6400e-003	105.3183
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,781.5335</b>	<b>0.3405</b>	<b>0.0705</b>	<b>2,811.0396</b>

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Unmitigated	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.5401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.1895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1015	0.8670	0.3689	5.5300e-003		0.0701	0.0701		0.0701	0.0701	0.0000	1,004.0934	1,004.0934	0.0193	0.0184	1,010.0602
Landscaping	1.7555	0.6753	58.5508	3.1000e-003		0.3257	0.3257		0.3257	0.3257	0.0000	96.0038	96.0038	0.0916	0.0000	98.2947
<b>Total</b>	<b>51.5864</b>	<b>1.5423</b>	<b>58.9197</b>	<b>8.6300e-003</b>		<b>0.3958</b>	<b>0.3958</b>		<b>0.3958</b>	<b>0.3958</b>	<b>0.0000</b>	<b>1,100.0972</b>	<b>1,100.0972</b>	<b>0.1109</b>	<b>0.0184</b>	<b>1,108.3550</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.5401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.1895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1015	0.8670	0.3689	5.5300e-003		0.0701	0.0701		0.0701	0.0701	0.0000	1,004.0934	1,004.0934	0.0193	0.0184	1,010.0602
Landscaping	1.7555	0.6753	58.5508	3.1000e-003		0.3257	0.3257		0.3257	0.3257	0.0000	96.0038	96.0038	0.0916	0.0000	98.2947
<b>Total</b>	<b>51.5864</b>	<b>1.5423</b>	<b>58.9197</b>	<b>8.6300e-003</b>		<b>0.3958</b>	<b>0.3958</b>		<b>0.3958</b>	<b>0.3958</b>	<b>0.0000</b>	<b>1,100.0972</b>	<b>1,100.0972</b>	<b>0.1109</b>	<b>0.0184</b>	<b>1,108.3550</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	731.8224	0.8105	0.4853	896.7150
Unmitigated	731.8224	0.8105	0.4853	896.7150

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	140.081 / 88.312	157.7757	0.1838	0.1105	195.3063
City Park	0 / 93.8887	35.3112	4.3200e-003	8.9000e-004	35.6858
Convenience Market (24 Hour)	0.244439 / 0.149818	0.2737	3.2000e-004	1.9000e-004	0.3392
Discount Club	14.4441 / 8.85286	16.1734	0.0189	0.0114	20.0423
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.8378 / 0.755605	10.8105	0.0152	9.2800e-003	13.9553

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	136.251 / 83.5085	152.5630	0.1787	0.1075	189.0578
Hardware/Paint Store	2.40736 / 1.47548	2.6956	3.1600e-003	1.9000e-003	3.3404
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	12.0368 / 7.37738	13.4779	0.0158	9.4900e-003	16.7019
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.28954 / 1.40327	2.5637	3.0000e-003	1.8100e-003	3.1769
Single Family Housing	230.645 / 145.407	259.7795	0.3027	0.1820	321.5740
Strip Mall	39.8214 / 24.4067	44.5889	0.0522	0.0314	55.2551
Supermarket	8.01243 / 0.247807	7.2180	0.0103	6.2800e-003	9.3455
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>731.8224</b>	<b>0.8105</b>	<b>0.4853</b>	<b>896.7150</b>

**7.2 Water by Land Use**

**Mitigated**

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	140.081 / 88.312	157.7757	0.1838	0.1105	195.3063
City Park	0 / 93.8887	35.3112	4.3200e-003	8.9000e-004	35.6858
Convenience Market (24 Hour)	0.244439 / 0.149818	0.2737	3.2000e-004	1.9000e-004	0.3392
Discount Club	14.4441 / 8.85286	16.1734	0.0189	0.0114	20.0423
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.8378 / 0.755605	10.8105	0.0152	9.2800e-003	13.9553
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	136.251 / 83.5085	152.5630	0.1787	0.1075	189.0578
Hardware/Paint Store	2.40736 / 1.47548	2.6956	3.1600e-003	1.9000e-003	3.3404
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	12.0368 / 7.37738	13.4779	0.0158	9.4900e-003	16.7019
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.28954 / 1.40327	2.5637	3.0000e-003	1.8100e-003	3.1769
Single Family Housing	230.645 / 145.407	259.7795	0.3027	0.1820	321.5740
Strip Mall	39.8214 / 24.4067	44.5889	0.0522	0.0314	55.2551
Supermarket	8.01243 / 0.247807	7.2180	0.0103	6.2800e-003	9.3455

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>731.8224</b>	<b>0.8105</b>	<b>0.4853</b>	<b>896.7150</b>

### 8.0 Waste Detail

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#### 8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,082.0255	123.0442	0.0000	5,158.1301
Unmitigated	2,082.0255	123.0442	0.0000	5,158.1301

#### 8.2 Waste by Land Use

Unmitigated



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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	989	200.7581	11.8645	0.0000	497.3696
City Park	6.78	1.3763	0.0813	0.0000	3.4097
Convenience Market (24 Hour)	9.92	2.0137	0.1190	0.0000	4.9888
Discount Club	838.64	170.2363	10.0607	0.0000	421.7533
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	449.24	91.1917	5.3893	0.0000	225.9235
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	712.94	144.7204	8.5527	0.0000	358.5386
Hardware/Paint Store	360.4	73.1579	4.3235	0.0000	181.2457
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1801.99	365.7877	21.6174	0.0000	906.2235
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.73	19.8383	1.1724	0.0000	49.1486
Single Family Housing	3402.72	690.7214	40.8205	0.0000	1,711.2331
Strip Mall	564.48	114.5843	6.7717	0.0000	283.8779
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,082.0255</b>	<b>123.0442</b>	<b>0.0000</b>	<b>5,158.1301</b>

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	989	200.7581	11.8645	0.0000	497.3696
City Park	6.78	1.3763	0.0813	0.0000	3.4097
Convenience Market (24 Hour)	9.92	2.0137	0.1190	0.0000	4.9888
Discount Club	838.64	170.2363	10.0607	0.0000	421.7533
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	449.24	91.1917	5.3893	0.0000	225.9235
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	712.94	144.7204	8.5527	0.0000	358.5386
Hardware/Paint Store	360.4	73.1579	4.3235	0.0000	181.2457
High School	325	65.9721	3.8988	0.0000	163.4430

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Home Improvement Superstore	1801.99	365.7877	21.6174	0.0000	906.2235
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.73	19.8383	1.1724	0.0000	49.1486
Single Family Housing	3402.72	690.7214	40.8205	0.0000	1,711.2331
Strip Mall	564.48	114.5843	6.7717	0.0000	283.8779
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,082.0255</b>	<b>123.0442</b>	<b>0.0000</b>	<b>5,158.1301</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX G-3**  
**ORIGINAL PROJECT BAU PEAK DAILY SUMMER OPERATIONAL EMISSIONS**

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## Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Summer**

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	298.40	1000sqft	8.22	298,400.00	0
Hospital	433.40	1000sqft	11.94	433,400.00	0
Office Park	0.00	1000sqft	0.00	0.00	0
Pharmacy/Drugstore with Drive Thru	32.30	1000sqft	1.20	32,300.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,123.00	0
Parking Lot	465.20	1000sqft	10.68	465,200.00	0
Parking Lot	386.80	1000sqft	8.88	386,800.00	0
Parking Lot	154.20	1000sqft	3.54	154,200.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	94.10	1000sqft	2.16	94,100.00	0
Parking Lot	271.80	1000sqft	6.24	271,800.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	452.00	1000sqft	10.38	452,000.00	0
Parking Lot	341.50	1000sqft	7.84	341,500.00	0

## Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Parking Lot	173.40	1000sqft	3.98	173,400.00	0
Parking Lot	238.70	1000sqft	5.48	238,700.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Unenclosed Parking with Elevator	173.40	1000sqft	3.98	173,400.00	0
Unenclosed Parking with Elevator	0.00	1000sqft	0.00	0.00	0
City Park	39.20	Acre	39.20	1,707,552.00	0
City Park	39.10	Acre	39.10	1,703,196.00	0
Fast Food Restaurant with Drive Thru	38.70	1000sqft	1.44	38,700.00	0
Apartments Mid Rise	2,137.00	Dwelling Unit	85.00	2,137,000.00	5706
Apartments Mid Rise	100.00	Dwelling Unit	11.76	178,600.00	267
Single Family Housing	2,134.00	Dwelling Unit	355.70	3,841,200.00	5698
Single Family Housing	1,772.00	Dwelling Unit	136.30	3,189,600.00	4731
Convenience Market (24 Hour)	3.20	1000sqft	0.12	3,200.00	0
Discount Club	193.70	1000sqft	7.12	193,700.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.12	3,000.00	0
Hardware/Paint Store	32.30	1000sqft	1.20	32,300.00	0
Home Improvement Superstore	161.40	1000sqft	5.92	161,400.00	0
Strip Mall	113.00	1000sqft	4.16	113,000.00	0
Strip Mall	188.60	1000sqft	6.92	188,600.00	0
Strip Mall	248.40	1000sqft	0.00	248,400.00	0
Supermarket	64.60	1000sqft	2.36	64,600.00	0

## 1.2 Other Project Characteristics

Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	236.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O intensity SMUD default.

Land Use - Non-default from Project Description. Mixed Use Retail lot acreage set to 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,181,312.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,543,935.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,148.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	6,308,820.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	18,926,460.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	900.00	0.00



## Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,237.00
tblFireplaces	NumberGas	0.00	3,906.00
tblFireplaces	NumberNoFireplace	2,237.00	0.00
tblFireplaces	NumberNoFireplace	3,906.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,123.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	6.85	8.22
tblLandUse	LotAcreage	9.95	11.94
tblLandUse	LotAcreage	0.74	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.89	1.44
tblLandUse	LotAcreage	2.63	11.76
tblLandUse	LotAcreage	56.24	85.00
tblLandUse	LotAcreage	575.32	136.30
tblLandUse	LotAcreage	692.86	355.70
tblLandUse	LotAcreage	0.07	0.12



Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.35 69	57,137.35 69	1.0951	1.0475	57,476.89 57
Mobile	157.9338	614.7982	1,240.340 1	5.2919	571.5329	2.6333	574.1661	152.5905	2.4453	155.0358		539,731.3 532	539,731.3 532	20.2955		540,238.7 400
<b>Total</b>	<b>476.6589</b>	<b>734.2014</b>	<b>1,800.386 5</b>	<b>6.0380</b>	<b>571.5329</b>	<b>14.5573</b>	<b>586.0901</b>	<b>152.5905</b>	<b>14.3692</b>	<b>166.9597</b>	<b>0.0000</b>	<b>684,507.3 122</b>	<b>684,507.3 122</b>	<b>23.9250</b>	<b>2.6375</b>	<b>685,891.4 031</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.18 88	49,649.18 88	0.9516	0.9102	49,944.22 91
Mobile	157.9338	614.7982	1,240.340 1	5.2919	571.5329	2.6333	574.1661	152.5905	2.4453	155.0358		539,731.3 532	539,731.3 532	20.2955		540,238.7 400
<b>Total</b>	<b>475.9725</b>	<b>728.2266</b>	<b>1,797.090 4</b>	<b>6.0006</b>	<b>571.5329</b>	<b>14.0830</b>	<b>585.6159</b>	<b>152.5905</b>	<b>13.8950</b>	<b>166.4855</b>	<b>0.0000</b>	<b>677,019.1 440</b>	<b>677,019.1 440</b>	<b>23.7815</b>	<b>2.5002</b>	<b>678,358.7 365</b>

Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	0.81	0.18	0.62	0.00	3.26	0.08	0.00	3.30	0.28	0.00	1.09	1.09	0.60	5.20	1.10

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 84.62

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	157.9338	614.7982	1,240.3401	5.2919	571.5329	2.6333	574.1661	152.5905	2.4453	155.0358		539,731.3532	539,731.3532	20.2955		540,238.7400
Unmitigated	157.9338	614.7982	1,240.3401	5.2919	571.5329	2.6333	574.1661	152.5905	2.4453	155.0358		539,731.3532	539,731.3532	20.2955		540,238.7400



Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,130.19	3,130.19	3130.19	2,716,022	2,716,022
Single Family Housing	20,315.68	21,147.94	18395.08	51,733,278	51,733,278
Single Family Housing	16,869.44	17,560.52	15274.64	42,957,530	42,957,530
Strip Mall	5,008.16	4,750.52	2308.59	5,638,959	5,638,959
Strip Mall	8,358.75	7,928.74	3853.10	9,411,572	9,411,572
Strip Mall	11,009.09	10,442.74	5074.81	12,395,730	12,395,730
Supermarket	6,604.70	11,472.31	10752.02	6,791,940	6,791,940
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>150,447.70</b>	<b>163,819.48</b>	<b>131,142.43</b>	<b>238,448,655</b>	<b>238,448,655</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	10.00	5.00	6.50	0.90	80.10	19.00	24	15	61
Discount Club	10.00	5.00	6.50	16.70	64.30	19.00	45	40	15
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
Gasoline/Service Station	10.00	5.00	6.50	2.00	79.00	19.00	14	27	59
Gasoline/Service Station	10.00	5.00	6.50	2.00	79.00	19.00	14	27	59
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Hardware/Paint Store	10.00	5.00	6.50	13.60	67.40	19.00	45	29	26
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
Home Improvement Superstore	10.00	5.00	6.50	23.40	57.60	19.00	32	20	48
Hospital	10.00	5.00	6.50	64.90	16.10	19.00	73	25	2



Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

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
Library	10.00	5.00	6.50	52.00	43.00	5.00	44	44	12
Office Park	10.00	5.00	6.50	33.00	48.00	19.00	82	15	3
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hospital	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Office Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Unenclosed Parking with Elevator	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.1888	49,649.1888	0.9516	0.9102	49,944.2291
NaturalGas Unmitigated	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.3569	57,137.3569	1.0951	1.0475	57,476.8957

**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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	57073.1	0.6155	5.2597	2.2382	0.0336		0.4253	0.4253		0.4253	0.4253		6,714.4850	6,714.4850	0.1287	0.1231	6,754.3858
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market (24 Hour)	47.5178	5.1000e-004	4.6600e-003	3.9100e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5903	5.5903	1.1000e-004	1.0000e-004	5.6236
Discount Club	2876.31	0.0310	0.2820	0.2369	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.3897	338.3897	6.4900e-003	6.2000e-003	340.4006
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647
Fast Food Restaurant with Drive Thru	18841.1	0.2032	1.8472	1.5516	0.0111		0.1404	0.1404		0.1404	0.1404		2,216.5963	2,216.5963	0.0425	0.0406	2,229.7684
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	10709.7	0.1155	1.0500	0.8820	6.3000e-003		0.0798	0.0798		0.0798	0.0798		1,259.9645	1,259.9645	0.0242	0.0231	1,267.4519
Hardware/Paint Store	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2396.68	0.0259	0.2350	0.1974	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.9623	281.9623	5.4000e-003	5.1700e-003	283.6379
Hospital	80173.1	0.8646	7.8601	6.6025	0.0472		0.5974	0.5974		0.5974	0.5974		9,432.1251	9,432.1251	0.1808	0.1729	9,488.1755
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
Single Family Housing	125422	1.3526	11.5585	4.9185	0.0738		0.9345	0.9345		0.9345	0.9345		14,755.5425	14,755.5425	0.2828	0.2705	14,843.2273
Single Family Housing	151044	1.6289	13.9198	5.9233	0.0889		1.1254	1.1254		1.1254	1.1254		17,769.9367	17,769.9367	0.3406	0.3258	17,875.5345

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	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					
Strip Mall	1677.97	0.0181	0.1645	0.1382	9.9000e-004		0.0125	0.0125		0.0125	0.0125		197.4085	197.4085	3.7800e-003	3.6200e-003	198.5816
Strip Mall	2800.58	0.0302	0.2746	0.2306	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.4801	329.4801	6.3200e-003	6.0400e-003	331.4380
Strip Mall	3688.57	0.0398	0.3616	0.3038	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.9494	433.9494	8.3200e-003	7.9600e-003	436.5281
Supermarket	4495.45	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.8767	528.8767	0.0101	9.7000e-003	532.0196
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.2376</b>	<b>45.6367</b>	<b>25.4930</b>	<b>0.2857</b>		<b>3.6187</b>	<b>3.6187</b>		<b>3.6187</b>	<b>3.6187</b>		<b>57,137.3569</b>	<b>57,137.3569</b>	<b>1.0951</b>	<b>1.0475</b>	<b>57,476.8957</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.37086	0.0256	0.2185	0.0930	1.3900e-003		0.0177	0.0177		0.0177	0.0177		278.9244	278.9244	5.3500e-003	5.1100e-003	280.5819
Apartments Mid Rise	50.6652	0.5464	4.6692	1.9869	0.0298		0.3775	0.3775		0.3775	0.3775		5,960.6144	5,960.6144	0.1143	0.1093	5,996.0354
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0414163	4.5000e-004	4.0600e-003	3.4100e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8725	4.8725	9.0000e-005	9.0000e-005	4.9015
Discount Club	2.50698	0.0270	0.2458	0.2065	1.4700e-003		0.0187	0.0187		0.0187	0.0187		294.9391	294.9391	5.6500e-003	5.4100e-003	296.6918

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Elementary School	8.01185	0.0864	0.7855	0.6598	4.7100e-003		0.0597	0.0597		0.0597	0.0597		942.5705	942.5705	0.0181	0.0173	948.1717
Fast Food Restaurant with Drive Thru	17.8606	0.1926	1.7510	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2472	2,101.2472	0.0403	0.0385	2,113.7339
Gasoline/Service Station	0.264531	2.8500e-003	0.0259	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1212	31.1212	6.0000e-004	5.7000e-004	31.3062
Gasoline/Service Station	0.57315	6.1800e-003	0.0562	0.0472	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003		67.4294	67.4294	1.2900e-003	1.2400e-003	67.8301
General Office Building	9.13586	0.0985	0.8957	0.7524	5.3700e-003		0.0681	0.0681		0.0681	0.0681		1,074.8075	1,074.8075	0.0206	0.0197	1,081.1945
Hardware/Paint Store	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
High School	8.90205	0.0960	0.8728	0.7331	5.2400e-003		0.0663	0.0663		0.0663	0.0663		1,047.3006	1,047.3006	0.0201	0.0192	1,053.5242
Home Improvement Superstore	2.08894	0.0225	0.2048	0.1720	1.2300e-003		0.0156	0.0156		0.0156	0.0156		245.7572	245.7572	4.7100e-003	4.5100e-003	247.2176
Hospital	69.5149	0.7497	6.8152	5.7248	0.0409		0.5180	0.5180		0.5180	0.5180		8,178.2266	8,178.2266	0.1568	0.1499	8,226.8257
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
Single Family Housing	108.004	1.1648	9.9533	4.2354	0.0635		0.8047	0.8047		0.8047	0.8047		12,706.3098	12,706.3098	0.2435	0.2330	12,781.8170
Single Family Housing	130.068	1.4027	11.9866	5.1007	0.0765		0.9691	0.9691		0.9691	0.9691		15,302.0683	15,302.0683	0.2933	0.2805	15,393.0009
Strip Mall	1.46251	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0605	172.0605	3.3000e-003	3.1500e-003	173.0830
Strip Mall	2.44097	0.0263	0.2393	0.2010	1.4400e-003		0.0182	0.0182		0.0182	0.0182		287.1735	287.1735	5.5000e-003	5.2600e-003	288.8800

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	3.21494	0.0347	0.3152	0.2648	1.8900e-003		0.0240	0.0240		0.0240	0.0240		378.2285	378.2285	7.2500e-003	6.9300e-003	380.4762
Supermarket	4.05598	0.0437	0.3976	0.3340	2.3900e-003		0.0302	0.0302		0.0302	0.0302		477.1738	477.1738	9.1500e-003	8.7500e-003	480.0094
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.5512</b>	<b>39.6619</b>	<b>22.1969</b>	<b>0.2483</b>		<b>3.1444</b>	<b>3.1444</b>		<b>3.1444</b>	<b>3.1444</b>		<b>49,649.1888</b>	<b>49,649.1888</b>	<b>0.9516</b>	<b>0.9102</b>	<b>49,944.2291</b>

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674
Unmitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.70 59	86,724.70 59	1.6622	1.5900	87,240.06 75
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.60 21</b>	<b>87,638.60 21</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.76 74</b>



Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.70 59	86,724.70 59	1.6622	1.5900	87,240.06 75
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.60 21</b>	<b>87,638.60 21</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.76 74</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX G-4**  
**ORIGINAL PROJECT BAU PEAK DAILY WINTER OPERATIONAL EMISSIONS**

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Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	298.40	1000sqft	8.22	298,400.00	0
Hospital	433.40	1000sqft	11.94	433,400.00	0
Office Park	0.00	1000sqft	0.00	0.00	0
Pharmacy/Drugstore with Drive Thru	32.30	1000sqft	1.20	32,300.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,123.00	0
Parking Lot	465.20	1000sqft	10.68	465,200.00	0
Parking Lot	386.80	1000sqft	8.88	386,800.00	0
Parking Lot	154.20	1000sqft	3.54	154,200.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	94.10	1000sqft	2.16	94,100.00	0
Parking Lot	271.80	1000sqft	6.24	271,800.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	452.00	1000sqft	10.38	452,000.00	0
Parking Lot	341.50	1000sqft	7.84	341,500.00	0

## Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Parking Lot	173.40	1000sqft	3.98	173,400.00	0
Parking Lot	238.70	1000sqft	5.48	238,700.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Unenclosed Parking with Elevator	173.40	1000sqft	3.98	173,400.00	0
Unenclosed Parking with Elevator	0.00	1000sqft	0.00	0.00	0
City Park	39.20	Acre	39.20	1,707,552.00	0
City Park	39.10	Acre	39.10	1,703,196.00	0
Fast Food Restaurant with Drive Thru	38.70	1000sqft	1.44	38,700.00	0
Apartments Mid Rise	2,137.00	Dwelling Unit	85.00	2,137,000.00	5706
Apartments Mid Rise	100.00	Dwelling Unit	11.76	178,600.00	267
Single Family Housing	2,134.00	Dwelling Unit	355.70	3,841,200.00	5698
Single Family Housing	1,772.00	Dwelling Unit	136.30	3,189,600.00	4731
Convenience Market (24 Hour)	3.20	1000sqft	0.12	3,200.00	0
Discount Club	193.70	1000sqft	7.12	193,700.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.12	3,000.00	0
Hardware/Paint Store	32.30	1000sqft	1.20	32,300.00	0
Home Improvement Superstore	161.40	1000sqft	5.92	161,400.00	0
Strip Mall	113.00	1000sqft	4.16	113,000.00	0
Strip Mall	188.60	1000sqft	6.92	188,600.00	0
Strip Mall	248.40	1000sqft	0.00	248,400.00	0
Supermarket	64.60	1000sqft	2.36	64,600.00	0

## 1.2 Other Project Characteristics

Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	236.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O intensity SMUD default.

Land Use - Non-default from Project Description. Mixed Use Retail lot acreage set to 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,181,312.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,543,935.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,148.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	6,308,820.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	18,926,460.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	900.00	0.00

Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,237.00
tblFireplaces	NumberGas	0.00	3,906.00
tblFireplaces	NumberNoFireplace	2,237.00	0.00
tblFireplaces	NumberNoFireplace	3,906.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,123.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	6.85	8.22
tblLandUse	LotAcreage	9.95	11.94
tblLandUse	LotAcreage	0.74	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.89	1.44
tblLandUse	LotAcreage	2.63	11.76
tblLandUse	LotAcreage	56.24	85.00
tblLandUse	LotAcreage	575.32	136.30
tblLandUse	LotAcreage	692.86	355.70
tblLandUse	LotAcreage	0.07	0.12





Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.35 69	57,137.35 69	1.0951	1.0475	57,476.89 57
Mobile	108.7762	629.7536	1,178.580 4	4.8023	571.5329	2.6513	574.1842	152.5905	2.4625	155.0530		490,442.8 622	490,442.8 622	21.0241		490,968.4 646
<b>Total</b>	<b>427.5013</b>	<b>749.1568</b>	<b>1,738.626 8</b>	<b>5.5484</b>	<b>571.5329</b>	<b>14.5753</b>	<b>586.1081</b>	<b>152.5905</b>	<b>14.3865</b>	<b>166.9770</b>	<b>0.0000</b>	<b>635,218.8 212</b>	<b>635,218.8 212</b>	<b>24.6536</b>	<b>2.6375</b>	<b>636,621.1 277</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.18 88	49,649.18 88	0.9516	0.9102	49,944.22 91
Mobile	108.7762	629.7536	1,178.580 4	4.8023	571.5329	2.6513	574.1842	152.5905	2.4625	155.0530		490,442.8 622	490,442.8 622	21.0241		490,968.4 646
<b>Total</b>	<b>426.8149</b>	<b>743.1820</b>	<b>1,735.330 7</b>	<b>5.5110</b>	<b>571.5329</b>	<b>14.1010</b>	<b>585.6339</b>	<b>152.5905</b>	<b>13.9122</b>	<b>166.5027</b>	<b>0.0000</b>	<b>627,730.6 530</b>	<b>627,730.6 530</b>	<b>24.5101</b>	<b>2.5002</b>	<b>629,088.4 611</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.16	0.80	0.19	0.67	0.00	3.25	0.08	0.00	3.30	0.28	0.00	1.18	1.18	0.58	5.20	1.18

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 84.62

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	108.7762	629.7536	1,178.5804	4.8023	571.5329	2.6513	574.1842	152.5905	2.4625	155.0530		490,442.8622	490,442.8622	21.0241		490,968.4646
Unmitigated	108.7762	629.7536	1,178.5804	4.8023	571.5329	2.6513	574.1842	152.5905	2.4625	155.0530		490,442.8622	490,442.8622	21.0241		490,968.4646



Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,130.19	3,130.19	3130.19	2,716,022	2,716,022
Single Family Housing	20,315.68	21,147.94	18395.08	51,733,278	51,733,278
Single Family Housing	16,869.44	17,560.52	15274.64	42,957,530	42,957,530
Strip Mall	5,008.16	4,750.52	2308.59	5,638,959	5,638,959
Strip Mall	8,358.75	7,928.74	3853.10	9,411,572	9,411,572
Strip Mall	11,009.09	10,442.74	5074.81	12,395,730	12,395,730
Supermarket	6,604.70	11,472.31	10752.02	6,791,940	6,791,940
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>150,447.70</b>	<b>163,819.48</b>	<b>131,142.43</b>	<b>238,448,655</b>	<b>238,448,655</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	10.00	5.00	6.50	0.90	80.10	19.00	24	15	61
Discount Club	10.00	5.00	6.50	16.70	64.30	19.00	45	40	15
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
Gasoline/Service Station	10.00	5.00	6.50	2.00	79.00	19.00	14	27	59
Gasoline/Service Station	10.00	5.00	6.50	2.00	79.00	19.00	14	27	59
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Hardware/Paint Store	10.00	5.00	6.50	13.60	67.40	19.00	45	29	26
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
Home Improvement Superstore	10.00	5.00	6.50	23.40	57.60	19.00	32	20	48
Hospital	10.00	5.00	6.50	64.90	16.10	19.00	73	25	2

Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

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
Library	10.00	5.00	6.50	52.00	43.00	5.00	44	44	12
Office Park	10.00	5.00	6.50	33.00	48.00	19.00	82	15	3
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hospital	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Office Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Unenclosed Parking with Elevator	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N



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**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.1888	49,649.1888	0.9516	0.9102	49,944.2291
NaturalGas Unmitigated	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.3569	57,137.3569	1.0951	1.0475	57,476.8957

**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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	57073.1	0.6155	5.2597	2.2382	0.0336		0.4253	0.4253		0.4253	0.4253		6,714.4850	6,714.4850	0.1287	0.1231	6,754.3858
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market (24 Hour)	47.5178	5.1000e-004	4.6600e-003	3.9100e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5903	5.5903	1.1000e-004	1.0000e-004	5.6236
Discount Club	2876.31	0.0310	0.2820	0.2369	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.3897	338.3897	6.4900e-003	6.2000e-003	340.4006
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647
Fast Food Restaurant with Drive Thru	18841.1	0.2032	1.8472	1.5516	0.0111		0.1404	0.1404		0.1404	0.1404		2,216.5963	2,216.5963	0.0425	0.0406	2,229.7684
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	10709.7	0.1155	1.0500	0.8820	6.3000e-003		0.0798	0.0798		0.0798	0.0798		1,259.9645	1,259.9645	0.0242	0.0231	1,267.4519
Hardware/Paint Store	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2396.68	0.0259	0.2350	0.1974	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.9623	281.9623	5.4000e-003	5.1700e-003	283.6379
Hospital	80173.1	0.8646	7.8601	6.6025	0.0472		0.5974	0.5974		0.5974	0.5974		9,432.1251	9,432.1251	0.1808	0.1729	9,488.1755
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
Single Family Housing	125422	1.3526	11.5585	4.9185	0.0738		0.9345	0.9345		0.9345	0.9345		14,755.5425	14,755.5425	0.2828	0.2705	14,843.2273
Single Family Housing	151044	1.6289	13.9198	5.9233	0.0889		1.1254	1.1254		1.1254	1.1254		17,769.9367	17,769.9367	0.3406	0.3258	17,875.5345

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	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					
Strip Mall	1677.97	0.0181	0.1645	0.1382	9.9000e-004		0.0125	0.0125		0.0125	0.0125		197.4085	197.4085	3.7800e-003	3.6200e-003	198.5816
Strip Mall	2800.58	0.0302	0.2746	0.2306	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.4801	329.4801	6.3200e-003	6.0400e-003	331.4380
Strip Mall	3688.57	0.0398	0.3616	0.3038	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.9494	433.9494	8.3200e-003	7.9600e-003	436.5281
Supermarket	4495.45	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.8767	528.8767	0.0101	9.7000e-003	532.0196
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.2376</b>	<b>45.6367</b>	<b>25.4930</b>	<b>0.2857</b>		<b>3.6187</b>	<b>3.6187</b>		<b>3.6187</b>	<b>3.6187</b>		<b>57,137.3569</b>	<b>57,137.3569</b>	<b>1.0951</b>	<b>1.0475</b>	<b>57,476.8957</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.37086	0.0256	0.2185	0.0930	1.3900e-003		0.0177	0.0177		0.0177	0.0177		278.9244	278.9244	5.3500e-003	5.1100e-003	280.5819
Apartments Mid Rise	50.6652	0.5464	4.6692	1.9869	0.0298		0.3775	0.3775		0.3775	0.3775		5,960.6144	5,960.6144	0.1143	0.1093	5,996.0354
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0414163	4.5000e-004	4.0600e-003	3.4100e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8725	4.8725	9.0000e-005	9.0000e-005	4.9015
Discount Club	2.50698	0.0270	0.2458	0.2065	1.4700e-003		0.0187	0.0187		0.0187	0.0187		294.9391	294.9391	5.6500e-003	5.4100e-003	296.6918

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Elementary School	8.01185	0.0864	0.7855	0.6598	4.7100e-003		0.0597	0.0597		0.0597	0.0597		942.5705	942.5705	0.0181	0.0173	948.1717
Fast Food Restaurant with Drive Thru	17.8606	0.1926	1.7510	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2472	2,101.2472	0.0403	0.0385	2,113.7339
Gasoline/Service Station	0.264531	2.8500e-003	0.0259	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1212	31.1212	6.0000e-004	5.7000e-004	31.3062
Gasoline/Service Station	0.57315	6.1800e-003	0.0562	0.0472	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003		67.4294	67.4294	1.2900e-003	1.2400e-003	67.8301
General Office Building	9.13586	0.0985	0.8957	0.7524	5.3700e-003		0.0681	0.0681		0.0681	0.0681		1,074.8075	1,074.8075	0.0206	0.0197	1,081.1945
Hardware/Paint Store	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
High School	8.90205	0.0960	0.8728	0.7331	5.2400e-003		0.0663	0.0663		0.0663	0.0663		1,047.3006	1,047.3006	0.0201	0.0192	1,053.5242
Home Improvement Superstore	2.08894	0.0225	0.2048	0.1720	1.2300e-003		0.0156	0.0156		0.0156	0.0156		245.7572	245.7572	4.7100e-003	4.5100e-003	247.2176
Hospital	69.5149	0.7497	6.8152	5.7248	0.0409		0.5180	0.5180		0.5180	0.5180		8,178.2266	8,178.2266	0.1568	0.1499	8,226.8257
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
Single Family Housing	108.004	1.1648	9.9533	4.2354	0.0635		0.8047	0.8047		0.8047	0.8047		12,706.3098	12,706.3098	0.2435	0.2330	12,781.8170
Single Family Housing	130.068	1.4027	11.9866	5.1007	0.0765		0.9691	0.9691		0.9691	0.9691		15,302.0683	15,302.0683	0.2933	0.2805	15,393.0009
Strip Mall	1.46251	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0605	172.0605	3.3000e-003	3.1500e-003	173.0830
Strip Mall	2.44097	0.0263	0.2393	0.2010	1.4400e-003		0.0182	0.0182		0.0182	0.0182		287.1735	287.1735	5.5000e-003	5.2600e-003	288.8800

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	3.21494	0.0347	0.3152	0.2648	1.8900e-003		0.0240	0.0240		0.0240	0.0240		378.2285	378.2285	7.2500e-003	6.9300e-003	380.4762
Supermarket	4.05598	0.0437	0.3976	0.3340	2.3900e-003		0.0302	0.0302		0.0302	0.0302		477.1738	477.1738	9.1500e-003	8.7500e-003	480.0094
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.5512</b>	<b>39.6619</b>	<b>22.1969</b>	<b>0.2483</b>		<b>3.1444</b>	<b>3.1444</b>		<b>3.1444</b>	<b>3.1444</b>		<b>49,649.1888</b>	<b>49,649.1888</b>	<b>0.9516</b>	<b>0.9102</b>	<b>49,944.2291</b>

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674
Unmitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674

Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.70 59	86,724.70 59	1.6622	1.5900	87,240.06 75
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.60 21</b>	<b>87,638.60 21</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.76 74</b>

Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.70 59	86,724.70 59	1.6622	1.5900	87,240.06 75
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.60 21</b>	<b>87,638.60 21</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.76 74</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Jackson CEQA Original Project Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX G-5**  
**ALTERNATIVE 2 BAU PEAK DAILY SUMMER OPERATIONAL EMISSIONS**

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Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	766.60	1000sqft	21.36	766,600.00	0
Pharmacy/Drugstore with Drive Thru	32.50	1000sqft	1.20	32,500.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,213.00	0
Parking Lot	468.30	1000sqft	10.75	468,300.00	0
Parking Lot	390.30	1000sqft	8.96	390,300.00	0
Parking Lot	156.80	1000sqft	3.60	156,800.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	93.70	1000sqft	2.15	93,700.00	0
Parking Lot	273.10	1000sqft	6.27	273,100.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.40	1000sqft	0.17	7,400.00	0
Parking Lot	416.00	1000sqft	9.55	416,000.00	0
Parking Lot	343.20	1000sqft	7.88	343,200.00	0
Parking Lot	613.30	1000sqft	14.08	613,300.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
City Park	40.60	Acre	40.60	1,768,536.00	0
City Park	38.20	Acre	38.20	1,663,992.00	0
Fast Food Restaurant with Drive Thru	39.00	1000sqft	1.43	39,000.00	0
Apartments Mid Rise	2,050.00	Dwelling Unit	82.00	2,050,000.00	5474
Apartments Mid Rise	100.00	Dwelling Unit	11.82	178,600.00	267
Single Family Housing	3,540.00	Dwelling Unit	507.10	6,372,000.00	9452
Convenience Market (24 Hour)	3.30	1000sqft	0.12	3,300.00	0
Discount Club	195.00	1000sqft	7.16	195,000.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.11	3,000.00	0
Hardware/Paint Store	32.50	1000sqft	1.20	32,500.00	0
Home Improvement Superstore	162.50	1000sqft	5.97	162,500.00	0
Strip Mall	113.80	1000sqft	4.18	113,800.00	0
Strip Mall	173.40	1000sqft	6.37	173,400.00	0
Strip Mall	250.40	1000sqft	0.00	250,400.00	0
Supermarket	65.00	1000sqft	2.40	65,000.00	0

1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	236.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

1.3 User Entered Comments & Non-Default Data

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O are default for SMUD.

Land Use - Land use and acreages per Applicant. Acreage for Multi-use shopping entered as 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,194,357.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,583,070.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,292.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	5,805,405.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	17,416,215.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblFireplaces	NumberGas	0.00	2,150.00
tblFireplaces	NumberGas	0.00	3,540.00
tblFireplaces	NumberNoFireplace	2,150.00	0.00
tblFireplaces	NumberNoFireplace	3,540.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,213.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	17.60	21.36
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.90	1.43
tblLandUse	LotAcreage	2.63	11.82
tblLandUse	LotAcreage	53.95	82.00
tblLandUse	LotAcreage	1,149.35	507.10
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	4.48	7.16
tblLandUse	LotAcreage	0.08	0.11
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	3.73	5.97
tblLandUse	LotAcreage	2.61	4.18
tblLandUse	LotAcreage	3.98	6.37
tblLandUse	LotAcreage	5.75	0.00
tblLandUse	LotAcreage	1.49	2.40



Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Energy	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.96 39	46,364.96 39	0.8887	0.8500	46,640.48 77
Mobile	152.6979	593.9409	1,181.153 3	5.0237	540.9455	2.5078	543.4533	144.4241	2.3286	146.7528		512,405.7 570	512,405.7 570	19.3836		512,890.3 468
<b>Total</b>	<b>448.5551</b>	<b>679.5198</b>	<b>1,687.176 8</b>	<b>5.5570</b>	<b>540.9455</b>	<b>11.5546</b>	<b>552.5002</b>	<b>144.4241</b>	<b>11.3755</b>	<b>155.7996</b>	<b>0.0000</b>	<b>614,958.5 057</b>	<b>614,958.5 057</b>	<b>22.1411</b>	<b>1.8646</b>	<b>616,067.6 870</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Energy	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.49 24	40,647.49 24	0.7791	0.7452	40,889.04 01
Mobile	152.6979	593.9409	1,181.153 3	5.0237	540.9455	2.5078	543.4533	144.4241	2.3286	146.7528		512,405.7 570	512,405.7 570	19.3836		512,890.3 468
<b>Total</b>	<b>448.0310</b>	<b>674.9837</b>	<b>1,684.850 4</b>	<b>5.5284</b>	<b>540.9455</b>	<b>11.1925</b>	<b>552.1380</b>	<b>144.4241</b>	<b>11.0134</b>	<b>155.4375</b>	<b>0.0000</b>	<b>609,241.0 341</b>	<b>609,241.0 341</b>	<b>22.0315</b>	<b>1.7598</b>	<b>610,316.2 393</b>

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.12	0.67	0.14	0.51	0.00	3.13	0.07	0.00	3.18	0.23	0.00	0.93	0.93	0.49	5.62	0.93

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 84.67

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment



## Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	152.6979	593.9409	1,181.1533	5.0237	540.9455	2.5078	543.4533	144.4241	2.3286	146.7528		512,405.7570	512,405.7570	19.3836		512,890.3468
Unmitigated	152.6979	593.9409	1,181.1533	5.0237	540.9455	2.5078	543.4533	144.4241	2.3286	146.7528		512,405.7570	512,405.7570	19.3836		512,890.3468

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	13,632.50	13,099.50	12013.00	34,193,402	34,193,402
Apartments Mid Rise	665.00	639.00	586.00	1,667,971	1,667,971
City Park	76.73	923.65	679.64	523,693	523,693
City Park	72.20	869.05	639.47	492,736	492,736
Convenience Market (24 Hour)	2,435.37	2,848.23	2502.89	1,403,707	1,403,707
Discount Club	8,151.00	10,481.25	6565.65	10,162,268	10,162,268
Elementary School	3,471.75	0.00	0.00	5,214,694	5,214,694
Fast Food Restaurant with Drive Thru	19,348.68	28,159.17	21166.08	14,414,777	14,414,777
Gasoline/Service Station	8,090.88	8,090.88	8090.88	3,464,556	3,464,556
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,732,278	1,732,278
General Office Building	8,455.60	1,885.84	804.93	13,266,451	13,266,451
Hardware/Paint Store	1,666.93	2,681.90	2231.13	2,164,945	2,164,945
High School	3,222.50	1,092.50	447.50	6,568,328	6,568,328
Home Improvement Superstore	4,995.25	9,217.00	9067.50	5,480,713	5,480,713
Library	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,149.58	3,149.58	3149.58	2,732,839	2,732,839
Single Family Housing	33,700.80	35,081.40	30514.80	85,818,090	85,818,090



Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

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
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.4924	40,647.4924	0.7791	0.7452	40,889.0401
NaturalGas Unmitigated	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.9639	46,364.9639	0.8887	0.8500	46,640.4877

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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	54749.6	0.5904	5.0456	2.1470	0.0322		0.4079	0.4079		0.4079	0.4079		6,441.1297	6,441.1297	0.1235	0.1181	6,479.4062
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	49.0027	5.3000e-004	4.8000e-003	4.0400e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.7650	5.7650	1.1000e-004	1.1000e-004	5.7993
Discount Club	2895.62	0.0312	0.2839	0.2385	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.6608	340.6608	6.5300e-003	6.2500e-003	342.6851
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	18987.1	0.2048	1.8615	1.5637	0.0112		0.1415	0.1415		0.1415	0.1415		2,233.7792	2,233.7792	0.0428	0.0410	2,247.0534
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	27513.6	0.2967	2.6974	2.2658	0.0162		0.2050	0.2050		0.2050	0.2050		3,236.8928	3,236.8928	0.0620	0.0593	3,256.1281
Hardware/Paint Store	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2413.01	0.0260	0.2366	0.1987	1.4200e-003		0.0180	0.0180		0.0180	0.0180		283.8840	283.8840	5.4400e-003	5.2000e-003	285.5710
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
Single Family Housing	250561	2.7021	23.0909	9.8259	0.1474		1.8669	1.8669		1.8669	1.8669		29,477.7768	29,477.7768	0.5650	0.5404	29,652.9485
Strip Mall	1689.85	0.0182	0.1657	0.1392	9.9000e-004		0.0126	0.0126		0.0126	0.0126		198.8061	198.8061	3.8100e-003	3.6400e-003	199.9875
Strip Mall	2574.87	0.0278	0.2524	0.2121	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.9260	302.9260	5.8100e-003	5.5500e-003	304.7262
Strip Mall	3718.27	0.0401	0.3645	0.3062	2.1900e-003		0.0277	0.0277		0.0277	0.0277		437.4434	437.4434	8.3800e-003	8.0200e-003	440.0429
Supermarket	4523.29	0.0488	0.4435	0.3725	2.6600e-003		0.0337	0.0337		0.0337	0.0337		532.1515	532.1515	0.0102	9.7600e-003	535.3138
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.2501</b>	<b>36.8258</b>	<b>19.1700</b>	<b>0.2318</b>		<b>2.9365</b>	<b>2.9365</b>		<b>2.9365</b>	<b>2.9365</b>		<b>46,364.9639</b>	<b>46,364.9639</b>	<b>0.8887</b>	<b>0.8500</b>	<b>46,640.4877</b>



Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.38827	0.0258	0.2201	0.0937	1.4000e-003		0.0178	0.0178		0.0178	0.0178		280.9727	280.9727	5.3900e-003	5.1500e-003	282.6424
Apartments Mid Rise	48.9595	0.5280	4.5120	1.9200	0.0288		0.3648	0.3648		0.3648	0.3648		5,759.9413	5,759.9413	0.1104	0.1056	5,794.1697
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0430759	4.6000e-004	4.2200e-003	3.5500e-003	3.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		5.0678	5.0678	1.0000e-004	9.0000e-005	5.0979
Discount Club	2.5454	0.0275	0.2496	0.2096	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.4584	299.4584	5.7400e-003	5.4900e-003	301.2379
Elementary School	8.09285	0.0873	0.7934	0.6665	4.7600e-003		0.0603	0.0603		0.0603	0.0603		952.0999	952.0999	0.0183	0.0175	957.7578
Fast Food Restaurant with Drive Thru	18.0564	0.1947	1.7702	1.4870	0.0106		0.1345	0.1345		0.1345	0.1345		2,124.2856	2,124.2856	0.0407	0.0390	2,136.9091
Gasoline/Service Station	0.266261	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.3248	31.3248	6.0000e-004	5.7000e-004	31.5109
Gasoline/Service Station	0.576898	6.2200e-003	0.0566	0.0475	3.4000e-004		4.3000e-003	4.3000e-003		4.3000e-003	4.3000e-003		67.8704	67.8704	1.3000e-003	1.2400e-003	68.2737
General Office Building	23.7051	0.2556	2.3240	1.9522	0.0139		0.1766	0.1766		0.1766	0.1766		2,788.8377	2,788.8377	0.0535	0.0511	2,805.4103
Hardware/Paint Store	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
High School	8.99205	0.0970	0.8816	0.7405	5.2900e-003		0.0670	0.0670		0.0670	0.0670		1,057.8888	1,057.8888	0.0203	0.0194	1,064.1753
Home Improvement Superstore	2.12116	0.0229	0.2080	0.1747	1.2500e-003		0.0158	0.0158		0.0158	0.0158		249.5487	249.5487	4.7800e-003	4.5800e-003	251.0316
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Pharmacy/Drugstore with Drive Thru	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
Single Family Housing	217.784	2.3487	20.0703	8.5406	0.1281		1.6227	1.6227		1.6227	1.6227		25,621.6440	25,621.6440	0.4911	0.4697	25,773.9006
Strip Mall	1.48547	0.0160	0.1456	0.1223	8.7000e-004		0.0111	0.0111		0.0111	0.0111		174.7609	174.7609	3.3500e-003	3.2000e-003	175.7994
Strip Mall	2.26344	0.0244	0.2219	0.1864	1.3300e-003		0.0169	0.0169		0.0169	0.0169		266.2876	266.2876	5.1000e-003	4.8800e-003	267.8700
Strip Mall	3.26855	0.0353	0.3205	0.2692	1.9200e-003		0.0244	0.0244		0.0244	0.0244		384.5353	384.5353	7.3700e-003	7.0500e-003	386.8204
Supermarket	4.10677	0.0443	0.4026	0.3382	2.4200e-003		0.0306	0.0306		0.0306	0.0306		483.1491	483.1491	9.2600e-003	8.8600e-003	486.0203
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.7260</b>	<b>32.2898</b>	<b>16.8436</b>	<b>0.2032</b>		<b>2.5743</b>	<b>2.5743</b>		<b>2.5743</b>	<b>2.5743</b>		<b>40,647.4924</b>	<b>40,647.4924</b>	<b>0.7791</b>	<b>0.7452</b>	<b>40,889.0401</b>

6.0 Area Detail

6.1 Mitigation Measures Area

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Unmitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24

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	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.17 65	55,341.17 65	1.0607	1.0146	55,670.04 14
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.78 48</b>	<b>56,187.78 48</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.85 24</b>

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.1765	55,341.1765	1.0607	1.0146	55,670.0414
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.7848</b>	<b>56,187.7848</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.8524</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX G-6**  
**ALTERNATIVE 2 BAU PEAK DAILY WINTER OPERATIONAL EMISSIONS**

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Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24**  
**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	766.60	1000sqft	21.36	766,600.00	0
Pharmacy/Drugstore with Drive Thru	32.50	1000sqft	1.20	32,500.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,213.00	0
Parking Lot	468.30	1000sqft	10.75	468,300.00	0
Parking Lot	390.30	1000sqft	8.96	390,300.00	0
Parking Lot	156.80	1000sqft	3.60	156,800.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	93.70	1000sqft	2.15	93,700.00	0
Parking Lot	273.10	1000sqft	6.27	273,100.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.40	1000sqft	0.17	7,400.00	0
Parking Lot	416.00	1000sqft	9.55	416,000.00	0
Parking Lot	343.20	1000sqft	7.88	343,200.00	0
Parking Lot	613.30	1000sqft	14.08	613,300.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0

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Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
City Park	40.60	Acre	40.60	1,768,536.00	0
City Park	38.20	Acre	38.20	1,663,992.00	0
Fast Food Restaurant with Drive Thru	39.00	1000sqft	1.43	39,000.00	0
Apartments Mid Rise	2,050.00	Dwelling Unit	82.00	2,050,000.00	5474
Apartments Mid Rise	100.00	Dwelling Unit	11.82	178,600.00	267
Single Family Housing	3,540.00	Dwelling Unit	507.10	6,372,000.00	9452
Convenience Market (24 Hour)	3.30	1000sqft	0.12	3,300.00	0
Discount Club	195.00	1000sqft	7.16	195,000.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.11	3,000.00	0
Hardware/Paint Store	32.50	1000sqft	1.20	32,500.00	0
Home Improvement Superstore	162.50	1000sqft	5.97	162,500.00	0
Strip Mall	113.80	1000sqft	4.18	113,800.00	0
Strip Mall	173.40	1000sqft	6.37	173,400.00	0
Strip Mall	250.40	1000sqft	0.00	250,400.00	0
Supermarket	65.00	1000sqft	2.40	65,000.00	0

1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	236.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

1.3 User Entered Comments & Non-Default Data



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Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O are default for SMUD.

Land Use - Land use and acreages per Applicant. Acreage for Multi-use shopping entered as 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,194,357.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,583,070.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,292.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	5,805,405.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	17,416,215.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00

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tblFireplaces	NumberGas	0.00	2,150.00
tblFireplaces	NumberGas	0.00	3,540.00
tblFireplaces	NumberNoFireplace	2,150.00	0.00
tblFireplaces	NumberNoFireplace	3,540.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,213.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	17.60	21.36
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.90	1.43
tblLandUse	LotAcreage	2.63	11.82
tblLandUse	LotAcreage	53.95	82.00
tblLandUse	LotAcreage	1,149.35	507.10
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	4.48	7.16
tblLandUse	LotAcreage	0.08	0.11
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	3.73	5.97
tblLandUse	LotAcreage	2.61	4.18
tblLandUse	LotAcreage	3.98	6.37
tblLandUse	LotAcreage	5.75	0.00
tblLandUse	LotAcreage	1.49	2.40



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**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	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Energy	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.96 39	46,364.96 39	0.8887	0.8500	46,640.48 77
Mobile	104.8930	607.9251	1,125.856 2	4.5590	540.9455	2.5253	543.4708	144.4241	2.3454	146.7695		465,608.9 177	465,608.9 177	20.1050		466,111.54 16
<b>Total</b>	<b>400.7501</b>	<b>693.5040</b>	<b>1,631.879 7</b>	<b>5.0923</b>	<b>540.9455</b>	<b>11.5721</b>	<b>552.5177</b>	<b>144.4241</b>	<b>11.3922</b>	<b>155.8164</b>	<b>0.0000</b>	<b>568,161.6 665</b>	<b>568,161.6 665</b>	<b>22.8624</b>	<b>1.8646</b>	<b>569,288.8 817</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Energy	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.49 24	40,647.49 24	0.7791	0.7452	40,889.04 01
Mobile	104.8930	607.9251	1,125.856 2	4.5590	540.9455	2.5253	543.4708	144.4241	2.3454	146.7695		465,608.9 177	465,608.9 177	20.1050		466,111.54 16
<b>Total</b>	<b>400.2260</b>	<b>688.9680</b>	<b>1,629.553 3</b>	<b>5.0638</b>	<b>540.9455</b>	<b>11.2100</b>	<b>552.1556</b>	<b>144.4241</b>	<b>11.0301</b>	<b>155.4543</b>	<b>0.0000</b>	<b>562,444.1 949</b>	<b>562,444.1 949</b>	<b>22.7528</b>	<b>1.7598</b>	<b>563,537.4 341</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.13	0.65	0.14	0.56	0.00	3.13	0.07	0.00	3.18	0.23	0.00	1.01	1.01	0.48	5.62	1.01

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 84.67

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

## Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	104.8930	607.9251	1,125.8562	4.5590	540.9455	2.5253	543.4708	144.4241	2.3454	146.7695		465,608.9177	465,608.9177	20.1050		466,111.5416
Unmitigated	104.8930	607.9251	1,125.8562	4.5590	540.9455	2.5253	543.4708	144.4241	2.3454	146.7695		465,608.9177	465,608.9177	20.1050		466,111.5416

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	13,632.50	13,099.50	12013.00	34,193,402	34,193,402
Apartments Mid Rise	665.00	639.00	586.00	1,667,971	1,667,971
City Park	76.73	923.65	679.64	523,693	523,693
City Park	72.20	869.05	639.47	492,736	492,736
Convenience Market (24 Hour)	2,435.37	2,848.23	2502.89	1,403,707	1,403,707
Discount Club	8,151.00	10,481.25	6565.65	10,162,268	10,162,268
Elementary School	3,471.75	0.00	0.00	5,214,694	5,214,694
Fast Food Restaurant with Drive Thru	19,348.68	28,159.17	21166.08	14,414,777	14,414,777
Gasoline/Service Station	8,090.88	8,090.88	8090.88	3,464,556	3,464,556
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,732,278	1,732,278
General Office Building	8,455.60	1,885.84	804.93	13,266,451	13,266,451
Hardware/Paint Store	1,666.93	2,681.90	2231.13	2,164,945	2,164,945
High School	3,222.50	1,092.50	447.50	6,568,328	6,568,328
Home Improvement Superstore	4,995.25	9,217.00	9067.50	5,480,713	5,480,713
Library	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,149.58	3,149.58	3149.58	2,732,839	2,732,839
Single Family Housing	33,700.80	35,081.40	30514.80	85,818,090	85,818,090





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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
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.4924	40,647.4924	0.7791	0.7452	40,889.0401
NaturalGas Unmitigated	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.9639	46,364.9639	0.8887	0.8500	46,640.4877

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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	54749.6	0.5904	5.0456	2.1470	0.0322		0.4079	0.4079		0.4079	0.4079		6,441.1297	6,441.1297	0.1235	0.1181	6,479.4062
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	49.0027	5.3000e-004	4.8000e-003	4.0400e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.7650	5.7650	1.1000e-004	1.1000e-004	5.7993
Discount Club	2895.62	0.0312	0.2839	0.2385	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.6608	340.6608	6.5300e-003	6.2500e-003	342.6851
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647

## Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	18987.1	0.2048	1.8615	1.5637	0.0112		0.1415	0.1415		0.1415	0.1415		2,233.7792	2,233.7792	0.0428	0.0410	2,247.0534
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	27513.6	0.2967	2.6974	2.2658	0.0162		0.2050	0.2050		0.2050	0.2050		3,236.8928	3,236.8928	0.0620	0.0593	3,256.1281
Hardware/Paint Store	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2413.01	0.0260	0.2366	0.1987	1.4200e-003		0.0180	0.0180		0.0180	0.0180		283.8840	283.8840	5.4400e-003	5.2000e-003	285.5710
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
Single Family Housing	250561	2.7021	23.0909	9.8259	0.1474		1.8669	1.8669		1.8669	1.8669		29,477.7768	29,477.7768	0.5650	0.5404	29,652.9485
Strip Mall	1689.85	0.0182	0.1657	0.1392	9.9000e-004		0.0126	0.0126		0.0126	0.0126		198.8061	198.8061	3.8100e-003	3.6400e-003	199.9875
Strip Mall	2574.87	0.0278	0.2524	0.2121	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.9260	302.9260	5.8100e-003	5.5500e-003	304.7262
Strip Mall	3718.27	0.0401	0.3645	0.3062	2.1900e-003		0.0277	0.0277		0.0277	0.0277		437.4434	437.4434	8.3800e-003	8.0200e-003	440.0429
Supermarket	4523.29	0.0488	0.4435	0.3725	2.6600e-003		0.0337	0.0337		0.0337	0.0337		532.1515	532.1515	0.0102	9.7600e-003	535.3138
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.2501</b>	<b>36.8258</b>	<b>19.1700</b>	<b>0.2318</b>		<b>2.9365</b>	<b>2.9365</b>		<b>2.9365</b>	<b>2.9365</b>		<b>46,364.9639</b>	<b>46,364.9639</b>	<b>0.8887</b>	<b>0.8500</b>	<b>46,640.4877</b>

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.38827	0.0258	0.2201	0.0937	1.4000e-003		0.0178	0.0178		0.0178	0.0178		280.9727	280.9727	5.3900e-003	5.1500e-003	282.6424
Apartments Mid Rise	48.9595	0.5280	4.5120	1.9200	0.0288		0.3648	0.3648		0.3648	0.3648		5,759.9413	5,759.9413	0.1104	0.1056	5,794.1697
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0430759	4.6000e-004	4.2200e-003	3.5500e-003	3.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		5.0678	5.0678	1.0000e-004	9.0000e-005	5.0979
Discount Club	2.5454	0.0275	0.2496	0.2096	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.4584	299.4584	5.7400e-003	5.4900e-003	301.2379
Elementary School	8.09285	0.0873	0.7934	0.6665	4.7600e-003		0.0603	0.0603		0.0603	0.0603		952.0999	952.0999	0.0183	0.0175	957.7578
Fast Food Restaurant with Drive Thru	18.0564	0.1947	1.7702	1.4870	0.0106		0.1345	0.1345		0.1345	0.1345		2,124.2856	2,124.2856	0.0407	0.0390	2,136.9091
Gasoline/Service Station	0.266261	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.3248	31.3248	6.0000e-004	5.7000e-004	31.5109
Gasoline/Service Station	0.576898	6.2200e-003	0.0566	0.0475	3.4000e-004		4.3000e-003	4.3000e-003		4.3000e-003	4.3000e-003		67.8704	67.8704	1.3000e-003	1.2400e-003	68.2737
General Office Building	23.7051	0.2556	2.3240	1.9522	0.0139		0.1766	0.1766		0.1766	0.1766		2,788.8377	2,788.8377	0.0535	0.0511	2,805.4103
Hardware/Paint Store	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
High School	8.99205	0.0970	0.8816	0.7405	5.2900e-003		0.0670	0.0670		0.0670	0.0670		1,057.8888	1,057.8888	0.0203	0.0194	1,064.1753
Home Improvement Superstore	2.12116	0.0229	0.2080	0.1747	1.2500e-003		0.0158	0.0158		0.0158	0.0158		249.5487	249.5487	4.7800e-003	4.5800e-003	251.0316
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Pharmacy/Drugstore with Drive Thru	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
Single Family Housing	217.784	2.3487	20.0703	8.5406	0.1281		1.6227	1.6227		1.6227	1.6227		25,621.6440	25,621.6440	0.4911	0.4697	25,773.9006
Strip Mall	1.48547	0.0160	0.1456	0.1223	8.7000e-004		0.0111	0.0111		0.0111	0.0111		174.7609	174.7609	3.3500e-003	3.2000e-003	175.7994
Strip Mall	2.26344	0.0244	0.2219	0.1864	1.3300e-003		0.0169	0.0169		0.0169	0.0169		266.2876	266.2876	5.1000e-003	4.8800e-003	267.8700
Strip Mall	3.26855	0.0353	0.3205	0.2692	1.9200e-003		0.0244	0.0244		0.0244	0.0244		384.5353	384.5353	7.3700e-003	7.0500e-003	386.8204
Supermarket	4.10677	0.0443	0.4026	0.3382	2.4200e-003		0.0306	0.0306		0.0306	0.0306		483.1491	483.1491	9.2600e-003	8.8600e-003	486.0203
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.7260</b>	<b>32.2898</b>	<b>16.8436</b>	<b>0.2032</b>		<b>2.5743</b>	<b>2.5743</b>		<b>2.5743</b>	<b>2.5743</b>		<b>40,647.4924</b>	<b>40,647.4924</b>	<b>0.7791</b>	<b>0.7452</b>	<b>40,889.0401</b>

6.0 Area Detail

6.1 Mitigation Measures Area

Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Unmitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24

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	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.17 65	55,341.17 65	1.0607	1.0146	55,670.04 14
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.78 48</b>	<b>56,187.78 48</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.85 24</b>



Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.1765	55,341.1765	1.0607	1.0146	55,670.0414
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.7848</b>	<b>56,187.7848</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.8524</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Jackson CEQA Alt 2 Default VMT 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX H**  
**ENERGY REDUCTION EFFECTIVENESS OF THE 2019 BUILDING ENERGY STANDARDS** \_

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**APPENDIX H-1**  
**ORIGINAL PROJECT CalEEMod RUN WITH DEFAULT VMT AND DEFAULT (2016)**  
**ENERGY STANDARDS**

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Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

**Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24**  
**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	298.40	1000sqft	8.22	298,400.00	0
Hospital	433.40	1000sqft	11.94	433,400.00	0
Office Park	0.00	1000sqft	0.00	0.00	0
Pharmacy/Drugstore with Drive Thru	32.30	1000sqft	1.20	32,300.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,123.00	0
Parking Lot	465.20	1000sqft	10.68	465,200.00	0
Parking Lot	386.80	1000sqft	8.88	386,800.00	0
Parking Lot	154.20	1000sqft	3.54	154,200.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	94.10	1000sqft	2.16	94,100.00	0
Parking Lot	271.80	1000sqft	6.24	271,800.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	452.00	1000sqft	10.38	452,000.00	0
Parking Lot	341.50	1000sqft	7.84	341,500.00	0

## Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

Parking Lot	173.40	1000sqft	3.98	173,400.00	0
Parking Lot	238.70	1000sqft	5.48	238,700.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Unenclosed Parking with Elevator	173.40	1000sqft	3.98	173,400.00	0
Unenclosed Parking with Elevator	0.00	1000sqft	0.00	0.00	0
City Park	39.20	Acre	39.20	1,707,552.00	0
City Park	39.10	Acre	39.10	1,703,196.00	0
Fast Food Restaurant with Drive Thru	38.70	1000sqft	1.44	38,700.00	0
Apartments Mid Rise	2,137.00	Dwelling Unit	85.00	2,137,000.00	5706
Apartments Mid Rise	100.00	Dwelling Unit	11.76	178,600.00	267
Single Family Housing	2,134.00	Dwelling Unit	355.70	3,841,200.00	5698
Single Family Housing	1,772.00	Dwelling Unit	136.30	3,189,600.00	4731
Convenience Market (24 Hour)	3.20	1000sqft	0.12	3,200.00	0
Discount Club	193.70	1000sqft	7.12	193,700.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.12	3,000.00	0
Hardware/Paint Store	32.30	1000sqft	1.20	32,300.00	0
Home Improvement Superstore	161.40	1000sqft	5.92	161,400.00	0
Strip Mall	113.00	1000sqft	4.16	113,000.00	0
Strip Mall	188.60	1000sqft	6.92	188,600.00	0
Strip Mall	248.40	1000sqft	0.00	248,400.00	0
Supermarket	64.60	1000sqft	2.36	64,600.00	0

## 1.2 Other Project Characteristics

Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	236.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O intensity SMUD default.

Land Use - Non-default from Project Description. Mixed Use Retail lot acreage set to 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,181,312.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,543,935.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,148.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	6,308,820.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	18,926,460.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblConstructionPhase	NumDays	1,395.00	0.00

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tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,237.00
tblFireplaces	NumberGas	0.00	3,906.00
tblFireplaces	NumberNoFireplace	2,237.00	0.00
tblFireplaces	NumberNoFireplace	3,906.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,123.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	6.85	8.22
tblLandUse	LotAcreage	9.95	11.94
tblLandUse	LotAcreage	0.74	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.89	1.44
tblLandUse	LotAcreage	56.24	85.00
tblLandUse	LotAcreage	2.63	11.76
tblLandUse	LotAcreage	692.86	355.70
tblLandUse	LotAcreage	575.32	136.30
tblLandUse	LotAcreage	0.07	0.12



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tblLandUse	LotAcreage	4.45	7.12
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	0.74	1.20
tblLandUse	LotAcreage	3.71	5.92
tblLandUse	LotAcreage	2.59	4.16
tblLandUse	LotAcreage	4.33	6.92
tblLandUse	LotAcreage	5.70	0.00
tblLandUse	LotAcreage	1.48	2.36
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	590.31	236.9
tblTripsAndVMT	VendorTripNumber	2,207.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	6,812.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	1,362.00	0.00

**2.0 Emissions Summary**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638
Energy	0.9559	8.3287	4.6525	0.0521		0.6604	0.6604		0.6604	0.6604	0.0000	17,657.6676	17,657.6676	1.1849	0.3811	17,800.8446
Mobile	18.6745	97.9421	179.2942	0.7878	88.7410	0.4209	89.1619	23.7599	0.3909	24.1508	0.0000	72,977.9842	72,977.9842	2.9303	0.0000	73,051.2415
Waste						0.0000	0.0000		0.0000	0.0000	3,020.5279	0.0000	3,020.5279	178.5081	0.0000	7,483.2299
Water						0.0000	0.0000		0.0000	0.0000	217.6233	506.9556	724.5790	0.8111	0.4861	889.7139
<b>Total</b>	<b>74.6785</b>	<b>108.3585</b>	<b>247.7304</b>	<b>0.8519</b>	<b>88.7410</b>	<b>1.5427</b>	<b>90.2838</b>	<b>23.7599</b>	<b>1.5127</b>	<b>25.2726</b>	<b>3,238.1512</b>	<b>92,819.7482</b>	<b>96,057.8993</b>	<b>183.5634</b>	<b>0.8960</b>	<b>100,913.9936</b>

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**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	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638
Energy	0.9559	8.3287	4.6525	0.0521		0.6604	0.6604		0.6604	0.6604	0.0000	17,657.6676	17,657.6676	1.1849	0.3811	17,800.8446
Mobile	18.6745	97.9421	179.2942	0.7878	88.7410	0.4209	89.1619	23.7599	0.3909	24.1508	0.0000	72,977.9842	72,977.9842	2.9303	0.0000	73,051.2415
Waste						0.0000	0.0000		0.0000	0.0000	3,020.5279	0.0000	3,020.5279	178.5081	0.0000	7,483.2299
Water						0.0000	0.0000		0.0000	0.0000	217.6233	506.9556	724.5790	0.8111	0.4861	889.7139
<b>Total</b>	<b>74.6785</b>	<b>108.3585</b>	<b>247.7304</b>	<b>0.8519</b>	<b>88.7410</b>	<b>1.5427</b>	<b>90.2838</b>	<b>23.7599</b>	<b>1.5127</b>	<b>25.2726</b>	<b>3,238.1512</b>	<b>92,819.7482</b>	<b>96,057.8993</b>	<b>183.5634</b>	<b>0.8960</b>	<b>100,913.9936</b>

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

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

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

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

**Acres of Paving: 84.62**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	18.6745	97.9421	179.2942	0.7878	88.7410	0.4209	89.1619	23.7599	0.3909	24.1508	0.0000	72,977.9842	72,977.9842	2.9303	0.0000	73,051.2415
Unmitigated	18.6745	97.9421	179.2942	0.7878	88.7410	0.4209	89.1619	23.7599	0.3909	24.1508	0.0000	72,977.9842	72,977.9842	2.9303	0.0000	73,051.2415



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Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,130.19	3,130.19	3130.19	2,716,022	2,716,022
Single Family Housing	20,315.68	21,147.94	18395.08	51,733,278	51,733,278
Single Family Housing	16,869.44	17,560.52	15274.64	42,957,530	42,957,530
Strip Mall	5,008.16	4,750.52	2308.59	5,638,959	5,638,959
Strip Mall	8,358.75	7,928.74	3853.10	9,411,572	9,411,572
Strip Mall	11,009.09	10,442.74	5074.81	12,395,730	12,395,730
Supermarket	6,604.70	11,472.31	10752.02	6,791,940	6,791,940
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>150,447.70</b>	<b>163,819.48</b>	<b>131,142.43</b>	<b>238,448,655</b>	<b>238,448,655</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	10.00	5.00	6.50	0.90	80.10	19.00	24	15	61
Discount Club	10.00	5.00	6.50	16.70	64.30	19.00	45	40	15
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12
Fast Food Restaurant with Drive	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
Gasoline/Service Station	10.00	5.00	6.50	2.00	79.00	19.00	14	27	59
Gasoline/Service Station	10.00	5.00	6.50	2.00	79.00	19.00	14	27	59
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Hardware/Paint Store	10.00	5.00	6.50	13.60	67.40	19.00	45	29	26
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
Home Improvement Superstore	10.00	5.00	6.50	23.40	57.60	19.00	32	20	48
Hospital	10.00	5.00	6.50	64.90	16.10	19.00	73	25	2



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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
Library	10.00	5.00	6.50	52.00	43.00	5.00	44	44	12
Office Park	10.00	5.00	6.50	33.00	48.00	19.00	82	15	3
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hospital	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Office Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Unenclosed Parking with Elevator	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	8,197.9374	8,197.9374	1.0036	0.2076	8,284.8999
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	8,197.9374	8,197.9374	1.0036	0.2076	8,284.8999
NaturalGas Mitigated	0.9559	8.3287	4.6525	0.0521		0.6604	0.6604		0.6604	0.6604	0.0000	9,459.7302	9,459.7302	0.1813	0.1734	9,515.9447
NaturalGas Unmitigated	0.9559	8.3287	4.6525	0.0521		0.6604	0.6604		0.6604	0.6604	0.0000	9,459.7302	9,459.7302	0.1813	0.1734	9,515.9447

**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 Mid Rise	2.08317e+007	0.1123	0.9599	0.4085	6.1300e-003		0.0776	0.0776		0.0776	0.0776	0.0000	1,111.6583	1,111.6583	0.0213	0.0204	1,118.2643
Apartments Mid Rise	974810	5.2600e-003	0.0449	0.0191	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	52.0196	52.0196	1.0000e-003	9.5000e-004	52.3287

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	17344	9.0000e-005	8.5000e-004	7.1000e-004	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.9255	0.9255	2.0000e-005	2.0000e-005	0.9310
Discount Club	1.04985e+006	5.6600e-003	0.0515	0.0432	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	56.0242	56.0242	1.0700e-003	1.0300e-003	56.3571
Elementary School	3.4335e+006	0.0185	0.1683	0.1414	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.2246	183.2246	3.5100e-003	3.3600e-003	184.3135
Fast Food Restaurant with Drive Thru	6.87699e+006	0.0371	0.3371	0.2832	2.0200e-003		0.0256	0.0256		0.0256	0.0256	0.0000	366.9824	366.9824	7.0300e-003	6.7300e-003	369.1632
Gasoline/Service Station	107430	5.8000e-004	5.2700e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	5.7329	5.7329	1.1000e-004	1.1000e-004	5.7669
Gasoline/Service Station	232765	1.2600e-003	0.0114	9.5800e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4212	12.4212	2.4000e-004	2.3000e-004	12.4950
General Office Building	3.90904e+006	0.0211	0.1916	0.1610	1.1500e-003		0.0146	0.0146		0.0146	0.0146	0.0000	208.6013	208.6013	4.0000e-003	3.8200e-003	209.8409
Hardware/Paint Store	175066	9.4000e-004	8.5800e-003	7.2100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3422	9.3422	1.8000e-004	1.7000e-004	9.3977
High School	3.815e+006	0.0206	0.1870	0.1571	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	203.5829	203.5829	3.9000e-003	3.7300e-003	204.7927
Home Improvement Superstore	874788	4.7200e-003	0.0429	0.0360	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	46.6820	46.6820	8.9000e-004	8.6000e-004	46.9594
Hospital	2.92632e+007	0.1578	1.4345	1.2050	8.6100e-003		0.1090	0.1090		0.1090	0.1090	0.0000	1,561.5941	1,561.5941	0.0299	0.0286	1,570.8739
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	175066	9.4000e-004	8.5800e-003	7.2100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3422	9.3422	1.8000e-004	1.7000e-004	9.3977
Single Family Housing	4.57791e+007	0.2469	2.1094	0.8976	0.0135		0.1706	0.1706		0.1706	0.1706	0.0000	2,442.9456	2,442.9456	0.0468	0.0448	2,457.4628

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	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					
Single Family Housing	5.51312e+007	0.2973	2.5404	1.0810	0.0162		0.2054	0.2054		0.2054	0.2054	0.0000	2,942.0123	2,942.0123	0.0564	0.0539	2,959.4952
Strip Mall	1.02221e+006	5.5100e-003	0.0501	0.0421	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.5491	54.5491	1.0500e-003	1.0000e-003	54.8733
Strip Mall	1.34633e+006	7.2600e-003	0.0660	0.0554	4.0000e-004		5.0200e-003	5.0200e-003		5.0200e-003	5.0200e-003	0.0000	71.8452	71.8452	1.3800e-003	1.3200e-003	72.2721
Strip Mall	612460	3.3000e-003	0.0300	0.0252	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6832	32.6832	6.3000e-004	6.0000e-004	32.8774
Supermarket	1.64084e+006	8.8500e-003	0.0804	0.0676	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.5615	87.5615	1.6800e-003	1.6100e-003	88.0818
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.9559</b>	<b>8.3287</b>	<b>4.6524</b>	<b>0.0522</b>		<b>0.6604</b>	<b>0.6604</b>		<b>0.6604</b>	<b>0.6604</b>	<b>0.0000</b>	<b>9,459.7303</b>	<b>9,459.7303</b>	<b>0.1813</b>	<b>0.1735</b>	<b>9,515.9447</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	974810	5.2600e-003	0.0449	0.0191	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	52.0196	52.0196	1.0000e-003	9.5000e-004	52.3287
Apartments Mid Rise	2.08317e+007	0.1123	0.9599	0.4085	6.1300e-003		0.0776	0.0776		0.0776	0.0776	0.0000	1,111.6583	1,111.6583	0.0213	0.0204	1,118.2643
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	17344	9.0000e-005	8.5000e-004	7.1000e-004	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.9255	0.9255	2.0000e-005	2.0000e-005	0.9310

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Discount Club	1.04985e+006	5.6600e-003	0.0515	0.0432	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	56.0242	56.0242	1.0700e-003	1.0300e-003	56.3571
Elementary School	3.4335e+006	0.0185	0.1683	0.1414	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.2246	183.2246	3.5100e-003	3.3600e-003	184.3135
Fast Food Restaurant with Drive Thru	6.87699e+006	0.0371	0.3371	0.2832	2.0200e-003		0.0256	0.0256		0.0256	0.0256	0.0000	366.9824	366.9824	7.0300e-003	6.7300e-003	369.1632
Gasoline/Service Station	107430	5.8000e-004	5.2700e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	5.7329	5.7329	1.1000e-004	1.1000e-004	5.7669
Gasoline/Service Station	232765	1.2600e-003	0.0114	9.5800e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4212	12.4212	2.4000e-004	2.3000e-004	12.4950
General Office Building	3.90904e+006	0.0211	0.1916	0.1610	1.1500e-003		0.0146	0.0146		0.0146	0.0146	0.0000	208.6013	208.6013	4.0000e-003	3.8200e-003	209.8409
Hardware/Paint Store	175066	9.4000e-004	8.5800e-003	7.2100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3422	9.3422	1.8000e-004	1.7000e-004	9.3977
High School	3.815e+006	0.0206	0.1870	0.1571	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	203.5829	203.5829	3.9000e-003	3.7300e-003	204.7927
Home Improvement Superstore	874788	4.7200e-003	0.0429	0.0360	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	46.6820	46.6820	8.9000e-004	8.6000e-004	46.9594
Hospital	2.92632e+007	0.1578	1.4345	1.2050	8.6100e-003		0.1090	0.1090		0.1090	0.1090	0.0000	1,561.5941	1,561.5941	0.0299	0.0286	1,570.8739
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	175066	9.4000e-004	8.5800e-003	7.2100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3422	9.3422	1.8000e-004	1.7000e-004	9.3977
Single Family Housing	4.57791e+007	0.2469	2.1094	0.8976	0.0135		0.1706	0.1706		0.1706	0.1706	0.0000	2,442.9456	2,442.9456	0.0468	0.0448	2,457.4628
Single Family Housing	5.51312e+007	0.2973	2.5404	1.0810	0.0162		0.2054	0.2054		0.2054	0.2054	0.0000	2,942.0123	2,942.0123	0.0564	0.0539	2,959.4952
Strip Mall	1.02221e+006	5.5100e-003	0.0501	0.0421	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.5491	54.5491	1.0500e-003	1.0000e-003	54.8733

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Strip Mall	1.34633e+006	7.2600e-003	0.0660	0.0554	4.0000e-004		5.0200e-003	5.0200e-003		5.0200e-003	5.0200e-003	0.0000	71.8452	71.8452	1.3800e-003	1.3200e-003	72.2721
Strip Mall	612460	3.3000e-003	0.0300	0.0252	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6832	32.6832	6.3000e-004	6.0000e-004	32.8774
Supermarket	1.64084e+006	8.8500e-003	0.0804	0.0676	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.5615	87.5615	1.6800e-003	1.6100e-003	88.0818
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.9559</b>	<b>8.3287</b>	<b>4.6524</b>	<b>0.0522</b>		<b>0.6604</b>	<b>0.6604</b>		<b>0.6604</b>	<b>0.6604</b>	<b>0.0000</b>	<b>9,459.7303</b>	<b>9,459.7303</b>	<b>0.1813</b>	<b>0.1735</b>	<b>9,515.9447</b>

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	425646	45.7382	5.6000e-003	1.1600e-003	46.2234
Apartments Mid Rise	9.09606e+006	977.4260	0.1197	0.0248	987.7944
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	37024	3.9785	4.9000e-004	1.0000e-004	4.0207
Discount Club	2.24111e+006	240.8207	0.0295	6.1000e-003	243.3753
Elementary School	1.647e+006	176.9801	0.0217	4.4800e-003	178.8575

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	1.61418e+006	173.4531	0.0212	4.3900e-003	175.2930
Gasoline/Service Station	45540	4.8936	6.0000e-004	1.2000e-004	4.9455
Gasoline/Service Station	98670	10.6027	1.3000e-003	2.7000e-004	10.7152
General Office Building	4.3089e+006	463.0169	0.0567	0.0117	467.9285
Hardware/Paint Store	373711	40.1575	4.9200e-003	1.0200e-003	40.5835
High School	1.83e+006	196.6445	0.0241	4.9800e-003	198.7305
Home Improvement Superstore	1.8674e+006	200.6632	0.0246	5.0800e-003	202.7918
Hospital	8.81102e+006	946.7975	0.1159	0.0240	956.8410
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	119525	12.8437	1.5700e-003	3.3000e-004	12.9799
Parking Lot	135380	14.5474	1.7800e-003	3.7000e-004	14.7017
Parking Lot	158200	16.9995	2.0800e-003	4.3000e-004	17.1799
Parking Lot	162820	17.4960	2.1400e-003	4.4000e-004	17.6816
Parking Lot	213430	22.9343	2.8100e-003	5.8000e-004	23.1776
Parking Lot	2730	0.5867	7.0000e-005	1.0000e-005	0.5929



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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Parking Lot	27440	5.8972	7.2000e-004	1.5000e-004	5.9597
Parking Lot	32935	3.5391	4.3000e-004	9.0000e-005	3.5766
Parking Lot	47880	5.1450	6.3000e-004	1.3000e-004	5.1996
Parking Lot	53970	5.7994	7.1000e-004	1.5000e-004	5.8609
Parking Lot	5495	0.5905	7.0000e-005	1.0000e-005	0.5967
Parking Lot	60690	6.5215	8.0000e-004	1.7000e-004	6.5907
Parking Lot	83545	8.9774	1.1000e-003	2.3000e-004	9.0727
Parking Lot	95130	10.2223	1.2500e-003	2.6000e-004	10.3307
Pharmacy/Drugstore with Drive Thru	373711	40.1575	4.9200e-003	1.0200e-003	40.5835
Single Family Housing	1.49624e+007	1,607.7978	0.1968	0.0407	1,624.8531
Single Family Housing	1.8019e+007	1,936.2531	0.2370	0.0490	1,956.7926
Strip Mall	1.30741e+006	140.4891	0.0172	3.5600e-003	141.9794
Strip Mall	2.1821e+006	234.4800	0.0287	5.9400e-003	236.9674
Strip Mall	2.87399e+006	308.8274	0.0378	7.8200e-003	312.1033
Supermarket	2.61049e+006	280.5125	0.0343	7.1000e-003	283.4881
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	336396	36.1478	4.4300e-003	9.2000e-004	36.5312

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8,197.9374</b>	<b>1.0035</b>	<b>0.2076</b>	<b>8,284.8999</b>

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	425646	45.7382	5.6000e-003	1.1600e-003	46.2234
Apartments Mid Rise	9.09606e+006	977.4260	0.1197	0.0248	987.7944
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	37024	3.9785	4.9000e-004	1.0000e-004	4.0207
Discount Club	2.24111e+006	240.8207	0.0295	6.1000e-003	243.3753
Elementary School	1.647e+006	176.9801	0.0217	4.4800e-003	178.8575
Fast Food Restaurant with Drive Thru	1.61418e+006	173.4531	0.0212	4.3900e-003	175.2930
Gasoline/Service Station	45540	4.8936	6.0000e-004	1.2000e-004	4.9455
Gasoline/Service Station	98670	10.6027	1.3000e-003	2.7000e-004	10.7152
General Office Building	4.3089e+006	463.0169	0.0567	0.0117	467.9285

## Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hardware/Paint Store	373711	40.1575	4.9200e-003	1.0200e-003	40.5835
High School	1.83e+006	196.6445	0.0241	4.9800e-003	198.7305
Home Improvement Superstore	1.8674e+006	200.6632	0.0246	5.0800e-003	202.7918
Hospital	8.81102e+006	946.7975	0.1159	0.0240	956.8410
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	119525	12.8437	1.5700e-003	3.3000e-004	12.9799
Parking Lot	135380	14.5474	1.7800e-003	3.7000e-004	14.7017
Parking Lot	158200	16.9995	2.0800e-003	4.3000e-004	17.1799
Parking Lot	162820	17.4960	2.1400e-003	4.4000e-004	17.6816
Parking Lot	213430	22.9343	2.8100e-003	5.8000e-004	23.1776
Parking Lot	2730	0.5867	7.0000e-005	1.0000e-005	0.5929
Parking Lot	27440	5.8972	7.2000e-004	1.5000e-004	5.9597
Parking Lot	32935	3.5391	4.3000e-004	9.0000e-005	3.5766
Parking Lot	47880	5.1450	6.3000e-004	1.3000e-004	5.1996
Parking Lot	53970	5.7994	7.1000e-004	1.5000e-004	5.8609
Parking Lot	5495	0.5905	7.0000e-005	1.0000e-005	0.5967

Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Parking Lot	60690	6.5215	8.0000e-004	1.7000e-004	6.5907
Parking Lot	83545	8.9774	1.1000e-003	2.3000e-004	9.0727
Parking Lot	95130	10.2223	1.2500e-003	2.6000e-004	10.3307
Pharmacy/Drugstore with Drive Thru	373711	40.1575	4.9200e-003	1.0200e-003	40.5835
Single Family Housing	1.49624e+007	1,607.7978	0.1968	0.0407	1,624.8531
Single Family Housing	1.8019e+007	1,936.2531	0.2370	0.0490	1,956.7926
Strip Mall	1.30741e+006	140.4891	0.0172	3.5600e-003	141.9794
Strip Mall	2.1821e+006	234.4800	0.0287	5.9400e-003	236.9674
Strip Mall	2.87399e+006	308.8274	0.0378	7.8200e-003	312.1033
Supermarket	2.61049e+006	280.5125	0.0343	7.1000e-003	283.4881
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	336396	36.1478	4.4300e-003	9.2000e-004	36.5312
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8,197.9374</b>	<b>1.0035</b>	<b>0.2076</b>	<b>8,284.8999</b>

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638
Unmitigated	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638

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	6.9946					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	45.9999					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1590	1.3587	0.5782	8.6700e-003		0.1099	0.1099		0.1099	0.1099	0.0000	1,573.5066	1,573.5066	0.0302	0.0289	1,582.8572
Landscaping	1.8946	0.7290	63.2057	3.3500e-003		0.3516	0.3516		0.3516	0.3516	0.0000	103.6341	103.6341	0.0989	0.0000	106.1066
<b>Total</b>	<b>55.0481</b>	<b>2.0877</b>	<b>63.7838</b>	<b>0.0120</b>		<b>0.4614</b>	<b>0.4614</b>		<b>0.4614</b>	<b>0.4614</b>	<b>0.0000</b>	<b>1,677.1407</b>	<b>1,677.1407</b>	<b>0.1291</b>	<b>0.0289</b>	<b>1,688.9638</b>

Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, 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	6.9946					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	45.9999					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1590	1.3587	0.5782	8.6700e-003		0.1099	0.1099		0.1099	0.1099	0.0000	1,573.5066	1,573.5066	0.0302	0.0289	1,582.8572
Landscaping	1.8946	0.7290	63.2057	3.3500e-003		0.3516	0.3516		0.3516	0.3516	0.0000	103.6341	103.6341	0.0989	0.0000	106.1066
<b>Total</b>	<b>55.0481</b>	<b>2.0877</b>	<b>63.7838</b>	<b>0.0120</b>		<b>0.4614</b>	<b>0.4614</b>		<b>0.4614</b>	<b>0.4614</b>	<b>0.0000</b>	<b>1,677.1407</b>	<b>1,677.1407</b>	<b>0.1291</b>	<b>0.0289</b>	<b>1,688.9638</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	724.5790	0.8111	0.4861	889.7139
Unmitigated	724.5790	0.8111	0.4861	889.7139

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	145.75 / 91.8856	164.1601	0.1913	0.1150	203.2094
City Park	0 / 93.293	35.0871	4.3000e-003	8.9000e-004	35.4593
Convenience Market (24 Hour)	0.237032 / 0.145278	0.2654	3.1000e-004	1.9000e-004	0.3289
Discount Club	14.3478 / 8.79384	16.0656	0.0188	0.0113	19.9087
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.7468 / 0.749793	10.7274	0.0151	9.2000e-003	13.8480

## Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	53.0358 / 32.5058	59.3853	0.0696	0.0418	73.5910
Hardware/Paint Store	2.39254 / 1.4664	2.6790	3.1400e-003	1.8900e-003	3.3198
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	11.9553 / 7.32744	13.3866	0.0157	9.4300e-003	16.5889
Hospital	54.3833 / 10.3587	52.2541	0.0703	0.0427	66.7291
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.27546 / 1.39463	2.5479	2.9800e-003	1.7900e-003	3.1574
Single Family Housing	254.492 / 160.44	286.6380	0.3340	0.2008	354.8215
Strip Mall	40.7399 / 24.9696	45.6174	0.0534	0.0321	56.5296
Supermarket	7.96313 / 0.246282	7.1735	0.0102	6.2400e-003	9.2880
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>724.5789</b>	<b>0.8111</b>	<b>0.4861</b>	<b>889.7139</b>

## 7.2 Water by Land Use



## Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	145.75 / 91.8856	164.1601	0.1913	0.1150	203.2094
City Park	0 / 93.293	35.0871	4.3000e-003	8.9000e-004	35.4593
Convenience Market (24 Hour)	0.237032 / 0.145278	0.2654	3.1000e-004	1.9000e-004	0.3289
Discount Club	14.3478 / 8.79384	16.0656	0.0188	0.0113	19.9087
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.7468 / 0.749793	10.7274	0.0151	9.2000e-003	13.8480
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	53.0358 / 32.5058	59.3853	0.0696	0.0418	73.5910
Hardware/Paint Store	2.39254 / 1.4664	2.6790	3.1400e-003	1.8900e-003	3.3198
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	11.9553 / 7.32744	13.3866	0.0157	9.4300e-003	16.5889
Hospital	54.3833 / 10.3587	52.2541	0.0703	0.0427	66.7291
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000

Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Pharmacy/Drugstore with Drive Thru	2.27546 / 1.39463	2.5479	2.9800e-003	1.7900e-003	3.1574
Single Family Housing	254.492 / 160.44	286.6380	0.3340	0.2008	354.8215
Strip Mall	40.7399 / 24.9696	45.6174	0.0534	0.0321	56.5296
Supermarket	7.96313 / 0.246282	7.1735	0.0102	6.2400e-003	9.2880
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>724.5789</b>	<b>0.8111</b>	<b>0.4861</b>	<b>889.7139</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3,020.5279	178.5081	0.0000	7,483.2299
Unmitigated	3,020.5279	178.5081	0.0000	7,483.2299

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1029.02	208.8818	12.3446	0.0000	517.4957
City Park	6.73	1.3661	0.0807	0.0000	3.3845
Convenience Market (24 Hour)	9.62	1.9528	0.1154	0.0000	4.8379
Discount Club	833.05	169.1016	9.9936	0.0000	418.9421
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	445.78	90.4893	5.3478	0.0000	224.1834

## Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	277.51	56.3320	3.3291	0.0000	139.5602
Hardware/Paint Store	358.18	72.7073	4.2969	0.0000	180.1293
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1789.79	363.3112	21.4711	0.0000	900.0881
Hospital	4680.72	950.1439	56.1519	0.0000	2,353.9412
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.13	19.7165	1.1652	0.0000	48.8468
Single Family Housing	3754.44	762.1174	45.0399	0.0000	1,888.1136
Strip Mall	577.5	117.2273	6.9279	0.0000	290.4256
Supermarket	364.34	73.9577	4.3708	0.0000	183.2271
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3,020.5279</b>	<b>178.5081</b>	<b>0.0000</b>	<b>7,483.2299</b>

## 8.2 Waste by Land Use

Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1029.02	208.8818	12.3446	0.0000	517.4957
City Park	6.73	1.3661	0.0807	0.0000	3.3845
Convenience Market (24 Hour)	9.62	1.9528	0.1154	0.0000	4.8379
Discount Club	833.05	169.1016	9.9936	0.0000	418.9421
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	445.78	90.4893	5.3478	0.0000	224.1834
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	277.51	56.3320	3.3291	0.0000	139.5602
Hardware/Paint Store	358.18	72.7073	4.2969	0.0000	180.1293
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1789.79	363.3112	21.4711	0.0000	900.0881
Hospital	4680.72	950.1439	56.1519	0.0000	2,353.941 2
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000

Jackson CEQA Original Project Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Pharmacy/Drugstore with Drive Thru	97.13	19.7165	1.1652	0.0000	48.8468
Single Family Housing	3754.44	762.1174	45.0399	0.0000	1,888.1136
Strip Mall	577.5	117.2273	6.9279	0.0000	290.4256
Supermarket	364.34	73.9577	4.3708	0.0000	183.2271
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3,020.5279</b>	<b>178.5081</b>	<b>0.0000</b>	<b>7,483.2299</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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## **11.0 Vegetation**

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**APPENDIX H-2**  
**ALTERNATIVE 2 CalEEMod RUN WITH DEFAULT VMT AND DEFAULT (2016) ENERGY**  
**STANDARDS**

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Jackson CEQA Alt 2 Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

**Jackson CEQA Alt 2 Default VMT 2035 Op Yr No 2019 T24**  
**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	766.60	1000sqft	21.36	766,600.00	0
Pharmacy/Drugstore with Drive Thru	32.50	1000sqft	1.20	32,500.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,213.00	0
Parking Lot	468.30	1000sqft	10.75	468,300.00	0
Parking Lot	390.30	1000sqft	8.96	390,300.00	0
Parking Lot	156.80	1000sqft	3.60	156,800.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	93.70	1000sqft	2.15	93,700.00	0
Parking Lot	273.10	1000sqft	6.27	273,100.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.40	1000sqft	0.17	7,400.00	0
Parking Lot	416.00	1000sqft	9.55	416,000.00	0
Parking Lot	343.20	1000sqft	7.88	343,200.00	0
Parking Lot	613.30	1000sqft	14.08	613,300.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0

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Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
City Park	40.60	Acre	40.60	1,768,536.00	0
City Park	38.20	Acre	38.20	1,663,992.00	0
Fast Food Restaurant with Drive Thru	39.00	1000sqft	1.43	39,000.00	0
Apartments Mid Rise	2,050.00	Dwelling Unit	82.00	2,050,000.00	5474
Apartments Mid Rise	100.00	Dwelling Unit	11.82	178,600.00	267
Single Family Housing	3,540.00	Dwelling Unit	507.10	6,372,000.00	9452
Convenience Market (24 Hour)	3.30	1000sqft	0.12	3,300.00	0
Discount Club	195.00	1000sqft	7.16	195,000.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.11	3,000.00	0
Hardware/Paint Store	32.50	1000sqft	1.20	32,500.00	0
Home Improvement Superstore	162.50	1000sqft	5.97	162,500.00	0
Strip Mall	113.80	1000sqft	4.18	113,800.00	0
Strip Mall	173.40	1000sqft	6.37	173,400.00	0
Strip Mall	250.40	1000sqft	0.00	250,400.00	0
Supermarket	65.00	1000sqft	2.40	65,000.00	0

1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	236.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O are default for SMUD.

Land Use - Land use and acreages per Applicant. Acreage for Multi-use shopping entered as 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,194,357.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,583,070.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,292.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	5,805,405.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	17,416,215.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00

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tblFireplaces	NumberGas	0.00	2,150.00
tblFireplaces	NumberGas	0.00	3,540.00
tblFireplaces	NumberNoFireplace	2,150.00	0.00
tblFireplaces	NumberNoFireplace	3,540.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,213.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	17.60	21.36
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.90	1.43
tblLandUse	LotAcreage	2.63	11.82
tblLandUse	LotAcreage	53.95	82.00
tblLandUse	LotAcreage	1,149.35	507.10
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	4.48	7.16
tblLandUse	LotAcreage	0.08	0.11
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	3.73	5.97
tblLandUse	LotAcreage	2.61	4.18
tblLandUse	LotAcreage	3.98	6.37
tblLandUse	LotAcreage	5.75	0.00
tblLandUse	LotAcreage	1.49	2.40

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	590.31	236.9
tblTripsAndVMT	VendorTripNumber	2,167.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	6,636.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	1,327.00	0.00

**2.0 Emissions Summary**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Energy	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	15,243.7269	15,243.7269	1.0735	0.3324	15,369.6177
Mobile	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184
Waste						0.0000	0.0000		0.0000	0.0000	2,082.0255	0.0000	2,082.0255	123.0442	0.0000	5,158.1301
Water						0.0000	0.0000		0.0000	0.0000	217.1821	514.6403	731.8224	0.8105	0.4853	896.7150
<b>Total</b>	<b>70.1964</b>	<b>101.8548</b>	<b>231.4997</b>	<b>0.7900</b>	<b>82.9779</b>	<b>1.3278</b>	<b>84.3057</b>	<b>22.2169</b>	<b>1.2996</b>	<b>23.5164</b>	<b>2,299.2076</b>	<b>85,325.2663</b>	<b>87,624.4739</b>	<b>127.8077</b>	<b>0.8361</b>	<b>91,068.8361</b>

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**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	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Energy	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	15,243.7269	15,243.7269	1.0735	0.3324	15,369.6177
Mobile	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184
Waste						0.0000	0.0000		0.0000	0.0000	2,082.0255	0.0000	2,082.0255	123.0442	0.0000	5,158.1301
Water						0.0000	0.0000		0.0000	0.0000	217.1821	514.6403	731.8224	0.8105	0.4853	896.7150
<b>Total</b>	<b>70.1964</b>	<b>101.8548</b>	<b>231.4997</b>	<b>0.7900</b>	<b>82.9779</b>	<b>1.3278</b>	<b>84.3057</b>	<b>22.2169</b>	<b>1.2996</b>	<b>23.5164</b>	<b>2,299.2076</b>	<b>85,325.2663</b>	<b>87,624.4739</b>	<b>127.8077</b>	<b>0.8361</b>	<b>91,068.8361</b>

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

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

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

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

**Acres of Paving: 84.67**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**



## Jackson CEQA Alt 2 Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184
Unmitigated	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184

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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	13,632.50	13,099.50	12013.00	34,193,402	34,193,402
Apartments Mid Rise	665.00	639.00	586.00	1,667,971	1,667,971
City Park	76.73	923.65	679.64	523,693	523,693
City Park	72.20	869.05	639.47	492,736	492,736
Convenience Market (24 Hour)	2,435.37	2,848.23	2502.89	1,403,707	1,403,707
Discount Club	8,151.00	10,481.25	6565.65	10,162,268	10,162,268
Elementary School	3,471.75	0.00	0.00	5,214,694	5,214,694
Fast Food Restaurant with Drive Thru	19,348.68	28,159.17	21166.08	14,414,777	14,414,777
Gasoline/Service Station	8,090.88	8,090.88	8090.88	3,464,556	3,464,556
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,732,278	1,732,278
General Office Building	8,455.60	1,885.84	804.93	13,266,451	13,266,451
Hardware/Paint Store	1,666.93	2,681.90	2231.13	2,164,945	2,164,945
High School	3,222.50	1,092.50	447.50	6,568,328	6,568,328
Home Improvement Superstore	4,995.25	9,217.00	9067.50	5,480,713	5,480,713
Library	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,149.58	3,149.58	3149.58	2,732,839	2,732,839
Single Family Housing	33,700.80	35,081.40	30514.80	85,818,090	85,818,090



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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
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7,567.4871	7,567.4871	0.9264	0.1917	7,647.7619
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7,567.4871	7,567.4871	0.9264	0.1917	7,647.7619
NaturalGas Mitigated	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	7,676.2398	7,676.2398	0.1471	0.1407	7,721.8558
NaturalGas Unmitigated	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	7,676.2398	7,676.2398	0.1471	0.1407	7,721.8558

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 Mid Rise	1.99836e+007	0.1078	0.9208	0.3918	5.8800e-003		0.0745	0.0745		0.0745	0.0745	0.0000	1,066.4013	1,066.4013	0.0204	0.0196	1,072.7384
Apartments Mid Rise	974810	5.2600e-003	0.0449	0.0191	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	52.0196	52.0196	1.0000e-003	9.5000e-004	52.3287
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	17886	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9545	0.9545	2.0000e-005	2.0000e-005	0.9601
Discount Club	1.0569e+006	5.7000e-003	0.0518	0.0435	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4002	56.4002	1.0800e-003	1.0300e-003	56.7354





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Total		0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	7,676.2398	7,676.2398	0.1471	0.1407	7,721.8558
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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	974810	5.2600e-003	0.0449	0.0191	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	52.0196	52.0196	1.0000e-003	9.5000e-004	52.3287
Apartments Mid Rise	1.99836e+007	0.1078	0.9208	0.3918	5.8800e-003		0.0745	0.0745		0.0745	0.0745	0.0000	1,066.4013	1,066.4013	0.0204	0.0196	1,072.7384
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	17886	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9545	0.9545	2.0000e-005	2.0000e-005	0.9601
Discount Club	1.0569e+006	5.7000e-003	0.0518	0.0435	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4002	56.4002	1.0800e-003	1.0300e-003	56.7354
Elementary School	3.4335e+006	0.0185	0.1683	0.1414	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.2246	183.2246	3.5100e-003	3.3600e-003	184.3135
Fast Food Restaurant with Drive Thru	6.9303e+006	0.0374	0.3397	0.2854	2.0400e-003		0.0258	0.0258		0.0258	0.0258	0.0000	369.8272	369.8272	7.0900e-003	6.7800e-003	372.0249
Gasoline/Service Station	107430	5.8000e-004	5.2700e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	5.7329	5.7329	1.1000e-004	1.1000e-004	5.7669
Gasoline/Service Station	232765	1.2600e-003	0.0114	9.5800e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4212	12.4212	2.4000e-004	2.3000e-004	12.4950
General Office Building	1.00425e+007	0.0542	0.4923	0.4135	2.9500e-003		0.0374	0.0374		0.0374	0.0374	0.0000	535.9039	535.9039	0.0103	9.8200e-003	539.0885
Hardware/Paint Store	176150	9.5000e-004	8.6300e-003	7.2500e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	9.4000	9.4000	1.8000e-004	1.7000e-004	9.4559
High School	3.815e+006	0.0206	0.1870	0.1571	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	203.5829	203.5829	3.9000e-003	3.7300e-003	204.7927
Home Improvement Superstore	880750	4.7500e-003	0.0432	0.0363	2.6000e-004		3.2800e-003	3.2800e-003		3.2800e-003	3.2800e-003	0.0000	47.0002	47.0002	9.0000e-004	8.6000e-004	47.2795

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	176150	9.5000e-004	8.6300e-003	7.2500e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	9.4000	9.4000	1.8000e-004	1.7000e-004	9.4559	
Single Family Housing	9.14548e+007	0.4931	4.2141	1.7932	0.0269		0.3407	0.3407		0.3407	0.3407	0.0000	4,880.3766	4,880.3766	0.0935	0.0895	4,909.3782	
Strip Mall	1.35717e+006	7.3200e-003	0.0665	0.0559	4.0000e-004		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	72.4237	72.4237	1.3900e-003	1.3300e-003	72.8540	
Strip Mall	616796	3.3300e-003	0.0302	0.0254	1.8000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	32.9146	32.9146	6.3000e-004	6.0000e-004	33.1102	
Strip Mall	939828	5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1528	50.1528	9.6000e-004	9.2000e-004	50.4508	
Supermarket	1.651e+006	8.9000e-003	0.0809	0.0680	4.9000e-004		6.1500e-003	6.1500e-003		6.1500e-003	6.1500e-003	0.0000	88.1037	88.1037	1.6900e-003	1.6200e-003	88.6272	
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>		<b>0.7757</b>	<b>6.7207</b>	<b>3.4985</b>	<b>0.0423</b>		<b>0.5359</b>	<b>0.5359</b>		<b>0.5359</b>	<b>0.5359</b>	<b>0.0000</b>	<b>7,676.2398</b>	<b>7,676.2398</b>	<b>0.1471</b>	<b>0.1407</b>	<b>7,721.8558</b>	

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	425646	45.7382	5.6000e-003	1.1600e-003	46.2234
Apartments Mid Rise	8.72574e+006	937.6337	0.1148	0.0238	947.5800

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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	38181	4.1028	5.0000e-004	1.0000e-004	4.1463
Discount Club	2.25615e+006	242.4369	0.0297	6.1400e-003	245.0087
Elementary School	1.647e+006	176.9801	0.0217	4.4800e-003	178.8575
Fast Food Restaurant with Drive Thru	1.62669e+006	174.7977	0.0214	4.4300e-003	176.6519
Gasoline/Service Station	45540	4.8936	6.0000e-004	1.2000e-004	4.9455
Gasoline/Service Station	98670	10.6027	1.3000e-003	2.7000e-004	10.7152
General Office Building	1.10697e+007	1,189.5065	0.1456	0.0301	1,202.1246
Hardware/Paint Store	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
High School	1.83e+006	196.6445	0.0241	4.9800e-003	198.7305
Home Improvement Superstore	1.88013e+006	202.0308	0.0247	5.1200e-003	204.1739
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	120120	12.9076	1.5800e-003	3.3000e-004	13.0445
Parking Lot	136605	14.6790	1.8000e-003	3.7000e-004	14.8347
Parking Lot	145600	15.6456	1.9200e-003	4.0000e-004	15.8116
Parking Lot	163905	17.6126	2.1600e-003	4.5000e-004	17.7994

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	213430	22.9343	2.8100e-003	5.8000e-004	23.1776
Parking Lot	214655	23.0660	2.8200e-003	5.8000e-004	23.3107
Parking Lot	2590	0.2783	3.0000e-005	1.0000e-005	0.2813
Parking Lot	2730	0.2934	4.0000e-005	1.0000e-005	0.2965
Parking Lot	27300	5.8671	7.2000e-004	1.5000e-004	5.9293
Parking Lot	32795	3.5240	4.3000e-004	9.0000e-005	3.5614
Parking Lot	47880	5.1450	6.3000e-004	1.3000e-004	5.1996
Parking Lot	54880	5.8972	7.2000e-004	1.5000e-004	5.9597
Parking Lot	5495	0.5905	7.0000e-005	1.0000e-005	0.5967
Parking Lot	95585	10.2712	1.2600e-003	2.6000e-004	10.3801
Pharmacy/Drugstore with Drive Thru	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
Single Family Housing	2.9891e+007	3,211.9663	0.3932	0.0814	3,246.0383
Strip Mall	1.31667e+006	141.4837	0.0173	3.5800e-003	142.9845
Strip Mall	2.00624e+006	215.5824	0.0264	5.4600e-003	217.8692
Strip Mall	2.89713e+006	311.3139	0.0381	7.8800e-003	314.6163
Supermarket	2.62665e+006	282.2494	0.0346	7.1500e-003	285.2435
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000

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<b>Total</b>		<b>7,567.487 1</b>	<b>0.9264</b>	<b>0.1917</b>	<b>7,647.761 9</b>
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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	425646	45.7382	5.6000e-003	1.1600e-003	46.2234
Apartments Mid Rise	8.72574e+006	937.6337	0.1148	0.0238	947.5800
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	38181	4.1028	5.0000e-004	1.0000e-004	4.1463
Discount Club	2.25615e+006	242.4369	0.0297	6.1400e-003	245.0087
Elementary School	1.647e+006	176.9801	0.0217	4.4800e-003	178.8575
Fast Food Restaurant with Drive Thru	1.62669e+006	174.7977	0.0214	4.4300e-003	176.6519
Gasoline/Service Station	45540	4.8936	6.0000e-004	1.2000e-004	4.9455
Gasoline/Service Station	98670	10.6027	1.3000e-003	2.7000e-004	10.7152
General Office Building	1.10697e+007	1,189.5065	0.1456	0.0301	1,202.1246
Hardware/Paint Store	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
High School	1.83e+006	196.6445	0.0241	4.9800e-003	198.7305
Home Improvement Superstore	1.88013e+006	202.0308	0.0247	5.1200e-003	204.1739

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	120120	12.9076	1.5800e-003	3.3000e-004	13.0445
Parking Lot	136605	14.6790	1.8000e-003	3.7000e-004	14.8347
Parking Lot	145600	15.6456	1.9200e-003	4.0000e-004	15.8116
Parking Lot	163905	17.6126	2.1600e-003	4.5000e-004	17.7994
Parking Lot	213430	22.9343	2.8100e-003	5.8000e-004	23.1776
Parking Lot	214655	23.0660	2.8200e-003	5.8000e-004	23.3107
Parking Lot	2590	0.2783	3.0000e-005	1.0000e-005	0.2813
Parking Lot	2730	0.2934	4.0000e-005	1.0000e-005	0.2965
Parking Lot	27300	5.8671	7.2000e-004	1.5000e-004	5.9293
Parking Lot	32795	3.5240	4.3000e-004	9.0000e-005	3.5614
Parking Lot	47880	5.1450	6.3000e-004	1.3000e-004	5.1996
Parking Lot	54880	5.8972	7.2000e-004	1.5000e-004	5.9597
Parking Lot	5495	0.5905	7.0000e-005	1.0000e-005	0.5967
Parking Lot	95585	10.2712	1.2600e-003	2.6000e-004	10.3801
Pharmacy/Drugstore with Drive Thru	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
Single Family Housing	2.9891e+007	3,211.9663	0.3932	0.0814	3,246.0383

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	1.31667e+006	141.4837	0.0173	3.5800e-003	142.9845
Strip Mall	2.00624e+006	215.5824	0.0264	5.4600e-003	217.8692
Strip Mall	2.89713e+006	311.3139	0.0381	7.8800e-003	314.6163
Supermarket	2.62665e+006	282.2494	0.0346	7.1500e-003	285.2435
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>7,567.487 1</b>	<b>0.9264</b>	<b>0.1917</b>	<b>7,647.761 9</b>

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Unmitigated	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.5401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.1895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1015	0.8670	0.3689	5.5300e-003		0.0701	0.0701		0.0701	0.0701	0.0000	1,004.0934	1,004.0934	0.0193	0.0184	1,010.0602
Landscaping	1.7555	0.6753	58.5508	3.1000e-003		0.3257	0.3257		0.3257	0.3257	0.0000	96.0038	96.0038	0.0916	0.0000	98.2947
<b>Total</b>	<b>51.5864</b>	<b>1.5423</b>	<b>58.9197</b>	<b>8.6300e-003</b>		<b>0.3958</b>	<b>0.3958</b>		<b>0.3958</b>	<b>0.3958</b>	<b>0.0000</b>	<b>1,100.0972</b>	<b>1,100.0972</b>	<b>0.1109</b>	<b>0.0184</b>	<b>1,108.3550</b>



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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.5401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.1895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1015	0.8670	0.3689	5.5300e-003		0.0701	0.0701		0.0701	0.0701	0.0000	1,004.0934	1,004.0934	0.0193	0.0184	1,010.0602
Landscaping	1.7555	0.6753	58.5508	3.1000e-003		0.3257	0.3257		0.3257	0.3257	0.0000	96.0038	96.0038	0.0916	0.0000	98.2947
<b>Total</b>	<b>51.5864</b>	<b>1.5423</b>	<b>58.9197</b>	<b>8.6300e-003</b>		<b>0.3958</b>	<b>0.3958</b>		<b>0.3958</b>	<b>0.3958</b>	<b>0.0000</b>	<b>1,100.0972</b>	<b>1,100.0972</b>	<b>0.1109</b>	<b>0.0184</b>	<b>1,108.3550</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	731.8224	0.8105	0.4853	896.7150
Unmitigated	731.8224	0.8105	0.4853	896.7150

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	140.081 / 88.312	157.7757	0.1838	0.1105	195.3063
City Park	0 / 93.8887	35.3112	4.3200e-003	8.9000e-004	35.6858
Convenience Market (24 Hour)	0.244439 / 0.149818	0.2737	3.2000e-004	1.9000e-004	0.3392
Discount Club	14.4441 / 8.85286	16.1734	0.0189	0.0114	20.0423
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.8378 / 0.755605	10.8105	0.0152	9.2800e-003	13.9553

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	136.251 / 83.5085	152.5630	0.1787	0.1075	189.0578
Hardware/Paint Store	2.40736 / 1.47548	2.6956	3.1600e-003	1.9000e-003	3.3404
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	12.0368 / 7.37738	13.4779	0.0158	9.4900e-003	16.7019
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.28954 / 1.40327	2.5637	3.0000e-003	1.8100e-003	3.1769
Single Family Housing	230.645 / 145.407	259.7795	0.3027	0.1820	321.5740
Strip Mall	39.8214 / 24.4067	44.5889	0.0522	0.0314	55.2551
Supermarket	8.01243 / 0.247807	7.2180	0.0103	6.2800e-003	9.3455
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>731.8224</b>	<b>0.8105</b>	<b>0.4853</b>	<b>896.7150</b>

**7.2 Water by Land Use****Mitigated**

## Jackson CEQA Alt 2 Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	140.081 / 88.312	157.7757	0.1838	0.1105	195.3063
City Park	0 / 93.8887	35.3112	4.3200e-003	8.9000e-004	35.6858
Convenience Market (24 Hour)	0.244439 / 0.149818	0.2737	3.2000e-004	1.9000e-004	0.3392
Discount Club	14.4441 / 8.85286	16.1734	0.0189	0.0114	20.0423
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.8378 / 0.755605	10.8105	0.0152	9.2800e-003	13.9553
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	136.251 / 83.5085	152.5630	0.1787	0.1075	189.0578
Hardware/Paint Store	2.40736 / 1.47548	2.6956	3.1600e-003	1.9000e-003	3.3404
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	12.0368 / 7.37738	13.4779	0.0158	9.4900e-003	16.7019
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.28954 / 1.40327	2.5637	3.0000e-003	1.8100e-003	3.1769
Single Family Housing	230.645 / 145.407	259.7795	0.3027	0.1820	321.5740
Strip Mall	39.8214 / 24.4067	44.5889	0.0522	0.0314	55.2551
Supermarket	8.01243 / 0.247807	7.2180	0.0103	6.2800e-003	9.3455

Jackson CEQA Alt 2 Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>731.8224</b>	<b>0.8105</b>	<b>0.4853</b>	<b>896.7150</b>

### 8.0 Waste Detail

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#### 8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,082.0255	123.0442	0.0000	5,158.1301
Unmitigated	2,082.0255	123.0442	0.0000	5,158.1301

#### 8.2 Waste by Land Use

Unmitigated

## Jackson CEQA Alt 2 Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	989	200.7581	11.8645	0.0000	497.3696
City Park	6.78	1.3763	0.0813	0.0000	3.4097
Convenience Market (24 Hour)	9.92	2.0137	0.1190	0.0000	4.9888
Discount Club	838.64	170.2363	10.0607	0.0000	421.7533
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	449.24	91.1917	5.3893	0.0000	225.9235
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	712.94	144.7204	8.5527	0.0000	358.5386
Hardware/Paint Store	360.4	73.1579	4.3235	0.0000	181.2457
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1801.99	365.7877	21.6174	0.0000	906.2235
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.73	19.8383	1.1724	0.0000	49.1486
Single Family Housing	3402.72	690.7214	40.8205	0.0000	1,711.2331
Strip Mall	564.48	114.5843	6.7717	0.0000	283.8779
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637

Jackson CEQA Alt 2 Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,082.0255</b>	<b>123.0442</b>	<b>0.0000</b>	<b>5,158.1301</b>

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	989	200.7581	11.8645	0.0000	497.3696
City Park	6.78	1.3763	0.0813	0.0000	3.4097
Convenience Market (24 Hour)	9.92	2.0137	0.1190	0.0000	4.9888
Discount Club	838.64	170.2363	10.0607	0.0000	421.7533
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	449.24	91.1917	5.3893	0.0000	225.9235
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	712.94	144.7204	8.5527	0.0000	358.5386
Hardware/Paint Store	360.4	73.1579	4.3235	0.0000	181.2457
High School	325	65.9721	3.8988	0.0000	163.4430

Jackson CEQA Alt 2 Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Home Improvement Superstore	1801.99	365.7877	21.6174	0.0000	906.2235
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.73	19.8383	1.1724	0.0000	49.1486
Single Family Housing	3402.72	690.7214	40.8205	0.0000	1,711.2331
Strip Mall	564.48	114.5843	6.7717	0.0000	283.8779
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,082.0255</b>	<b>123.0442</b>	<b>0.0000</b>	<b>5,158.1301</b>

**9.0 Operational Offroad**

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

**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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Jackson CEQA Alt 2 Default VMT 2035 Op Yr No 2019 T24 - Sacramento County, Annual

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX H-3**  
**ORIGINAL PROJECT CALCULATIONS FOR THE ENERGY REDUCTION EFFECTIVENESS**  
**OF THE 2019 BUILDING ENERGY STANDARDS**

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### Jackson Original Project 2035 Energy Use GHG

Energy by Land Use Natural Gas	CalEEMod GWP
Apartments Mid Rise	1118
Apartments Mid Rise	52
City Park	0
Convenience Market (24 Hour)	1
Discount Club	56
Elementary School	184
Fast Food Restaurant with Drive Thru	369
Gasoline/Service Station	6
Gasoline/Service Station	13
General Office Building	210
Hardware/Paint Store	9
High School	205
Home Improvement Superstore	47
Hospital	1571
Library	0
Office Park	0
Parking Lot	0
Pharmacy/Drugstore with Drive Thru	9
Single Family Housing	2459
Single Family Housing	2959
Strip Mall	55
Strip Mall	72
Strip Mall	33
Supermarket	88
Unenclosed Parking with Elevator	0
User Defined Industrial	0
<b>Total</b>	<b>9516</b>
Total Natural Gas Plus Electricity	17801

#### Effective GHG Reduction from 2019 Title 24 Energy Efficiency:

Total Residential	11203
Total Non-Residential Bldg	6598
Total Energy Use	17801
Total Residential Less 7%	10418.8
Total Non-Residential Bldg Less 30%	4618.6
Total Residential and Bldg After 2019 Title 24	15037.4
Total Percent Reduction in Energy	15.5%

#### Effective Electricity Only GHG Reduction from 2019 Title 24 Residential Solar:

Total Residential Electric Only GHG Less 7%	4292.0
Total Non-Residential Bldg Electric Only GHG Less 30%	2569.0
Total Electric Only GHG After Title 24 Efficiency Alone	6861.0
Total Residential Electric Only GHG Less 7% and 100% Solar	0.0
Total Non-Residential Bldg Electric Only GHG Less 30% and No Solar	2569.0
Total Residential and Bldg Electric Only GHG After 2019 Title 24 Efficiency and Solar	2569.0
Total Percent Reduction in Electric Only GHG with Residential Solar	62.6%

Energy by Land Use Electricity	CalEEMod GWP
Apartments Mid Rise	46
Apartments Mid Rise	988
City Park	0
Convenience Market (24 Hour)	4
Discount Club	243
Elementary School	179
Fast Food Restaurant with Drive Thru	175
Gasoline/Service Station	11
Gasoline/Service Station	5
General Office Building	468
Hardware/Paint Store	40
High School	199
Home Improvement Superstore	203
Hospital	957
Library	0
Office Park	0
Parking Lot	0
Parking Lot	13
Parking Lot	15
Parking Lot	17
Parking Lot	18
Parking Lot	23
Parking Lot	1
Parking Lot	6
Parking Lot	4
Parking Lot	5
Parking Lot	6
Parking Lot	0
Parking Lot	1
Parking Lot	7
Parking Lot	9
Parking Lot	10
Pharmacy/Drugstore with Drive Thru	41
Single Family Housing	1625
Single Family Housing	1956
Strip Mall	142
Strip Mall	237
Strip Mall	312
Supermarket	283
Unenclosed Parking with Elevator	36
Unenclosed Parking with Elevator	0
User Defined Industrial	0
<b>Total</b>	<b>8285</b>

**APPENDIX H-4**  
**ALTERNATIVE 2 CALCULATIONS FOR THE ENERGY REDUCTION EFFECTIVENESS OF**  
**THE 2019 BUILDING ENERGY STANDARDS**

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### Jackson CEQA Alternative 2 2035 Energy Use GHG

Energy by Land Use Natural Gas	CalEEMod GWP
Apartments Mid Rise	1073
Apartments Mid Rise	52
City Park	0
Convenience Market (24 Hour)	1
Discount Club	57
Elementary School	184
Fast Food Restaurant with Drive Thru	372
Gasoline/Service Station	6
Gasoline/Service Station	13
General Office Building	539
Hardware/Paint Store	9
High School	205
Home Improvement Superstore	47
Hospital	0
Library	0
Office Park	0
Parking Lot	0
Pharmacy/Drugstore with Drive Thru	9
Single Family Housing	4909
Single Family Housing	0
Strip Mall	73
Strip Mall	33
Strip Mall	51
Supermarket	89
Unenclosed Parking with Elevator	0
User Defined Industrial	0
<b>Total</b>	<b>7722</b>
Total Natural Gas Plus Electricity	15370

#### Effective GHG Reduction from 2019 Title 24 Energy Efficiency:

Total Residential	10274
Total Non-Residential Bldg	5096
Total Energy Use	15370
Total Residential Less 7%	9554.8
Total Non-Residential Bldg Less 30%	3567.2
Total Residential and Bldg After 2019 Title 24	13122.0
Total Percent Reduction in Energy	14.6%

#### Effective Electricity Only GHG Reduction from 2019 Title 24 Residential Solar:

Total Residential Electric Only GHG Less 7%	3943.2
Total Non-Residential Bldg Electric Only GHG Less 30%	2385.6
Total Electric Only GHG After Title 24 Efficiency Alone	6328.8
Total Residential Electric Only GHG Less 7% and 100% Solar	0.0
Total Non-Residential Bldg Electric Only GHG Less 30% and No Solar	2385.6
Total Residential and Bldg Electric Only GHG After 2019 Title 24 Efficiency and Solar	2385.6
Total Percent Reduction in Electric Only GHG with Residential Solar	62.3%

Energy by Land Use Electricity	CalEEMod GWP
Apartments Mid Rise	46
Apartments Mid Rise	948
City Park	0
Convenience Market (24 Hour)	4
Discount Club	245
Elementary School	179
Fast Food Restaurant with Drive Thru	177
Gasoline/Service Station	11
Gasoline/Service Station	5
General Office Building	1202
Hardware/Paint Store	41
High School	199
Home Improvement Superstore	204
Hospital	0
Library	0
Office Park	0
Parking Lot	13
Parking Lot	15
Parking Lot	16
Parking Lot	18
Parking Lot	0
Parking Lot	23
Parking Lot	23
Parking Lot	0
Parking Lot	0
Parking Lot	6
Parking Lot	4
Parking Lot	5
Parking Lot	6
Parking Lot	10
Parking Lot	0
Parking Lot	0
Pharmacy/Drugstore with Drive Thru	41
Single Family Housing	3246
Single Family Housing	0
Strip Mall	143
Strip Mall	218
Strip Mall	315
Supermarket	285
Unenclosed Parking with Elevator	0
Unenclosed Parking with Elevator	0
User Defined Industrial	0
<b>Total</b>	<b>7648</b>

**APPENDIX I**  
**ORIGINAL PROJECT AND ALTERNATIVE 2 GHG THRESHOLD CALCULATIONS**

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**APPENDIX I-1**  
**ORIGINAL PROJECT GHG THRESHOLD CALCULATIONS – PROJECT-RELATED VMT**

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**Jackson CEQA Original Project Op Year 2035 Compared to Draft Extrapolated 2035 GHG Threshold Calculations**

**PROJECT-RELATED VMT**

Total Operational	CalEEMod GWP
Mobile	37603 From EMFAC2017
Waste	7483 From CalEEMod
Water	890 From CalEEMod
Area	1689 From CalEEMod
Energy	11279 From CalEEMod
<b>Total</b>	<b>58944</b>

Energy by Land Use Electricity	CalEEMod GWP
Apartments Mid Rise	17
Apartments Mid Rise	363
City Park	0
Convenience Market (24 Hour)	1
Discount Club	87
Elementary School	64
Fast Food Restaurant with Drive Thru	63
Gasoline/Service Station	2
Gasoline/Service Station	4
General Office Building	166
Hardware/Paint Store	15
High School	71
Home Improvement Superstore	73
Hospital	333
Library	0
Office Park	0
Parking Lot	1
Parking Lot	1
Parking Lot	2
Parking Lot	1
Parking Lot	2
Parking Lot	2
Parking Lot	0
Parking Lot	2
Parking Lot	3
Parking Lot	5
Parking Lot	6
Parking Lot	6
Parking Lot	7
Parking Lot	9
Parking Lot	0
Parking Lot	0
Pharmacy/Drugstore with Drive Thru	15
Single Family Housing	600
Single Family Housing	723
Strip Mall	112
Strip Mall	51
Strip Mall	85
Supermarket	104
Unenclosed Parking with Elevator	14
Unenclosed Parking with Elevator	0
User Defined Industrial	0
<b>Total</b>	<b>3010</b>

Energy by Land Use Natural Gas	CalEEMod GWP
Apartments Mid Rise	992
Apartments Mid Rise	46
City Park	0
Convenience Market (24 Hour)	1
Discount Club	49
Elementary School	157
Fast Food Restaurant with Drive Thru	350
Gasoline/Service Station	5
Gasoline/Service Station	11
General Office Building	179
Hardware/Paint Store	8
High School	175
Home Improvement Superstore	41
Hospital	1362
Library	0
Office Park	0
Parking Lot	0
Pharmacy/Drugstore with Drive Thru	8
Single Family Housing	2116
Single Family Housing	2549
Strip Mall	63
Strip Mall	29
Strip Mall	48
Supermarket	80
Unenclosed Parking with Elevator	0
User Defined Industrial	0
<b>Total</b>	<b>8269</b>

**AREA DETAIL**

Area by Subcategory	Updated GWP
Architectural Coating	0
Consumer Products	0
Hearth	1583
Landscaping	106
<b>Total</b>	<b>1689</b>

**DRAFT 2030 THRESHOLDS EXTRAPOLATED TO 2035 (Note 1)**

County Thresholds	Draft 2030 County Threshold	Draft Extrapolated 2035 County Threshold (Note 1)	Jackson CEQA Original Project	Jackson Params
Transportation GWP (Note 2)			37603 MT	16218 persons
Transportation Threshold	1.57	1.30 MT per capita	2.32 per capita	88556.2 persons
Truck GWP (Note 3)			2632 MT	Truck x100 VMT
Truck Threshold	0.08	0.07 per 100 VMT	0.03 per 100 VMT	
Commercial/Industrial GWP (Note 4)			3406 MT	1996.1 Kft2
Commercial/Industrial Threshold	4.59	3.81 MT/Kft2	1.71 MT/Kft2	
Residential GWP (Note 5)			9095 MT	16218 persons
Residential Threshold	0.78	0.65 MT per capita	0.56 per capita	
Residential + Schools GWP (Note 6)			9439 MT	16218 persons
Residential + Schools Threshold	0.78	0.65 MT per capita	0.58 per capita	

Emissions in Excess of Threshold
16469
-4199
-1405
10866 Total

Sum of Mobile + Commercial/Industrial + Residential GWP	50104
Schools + Library Total GWP	467
Water and Waste	8373
Total GWP	58944
Check Sum	58944

**Notes:**

- Draft 2030 Thresholds extrapolated to 2035 with a 17% reduction from 2030.
- Transportation GWP = Total mobile source emissions.
- Truck GWP Assumed 7% of Total Transportation GWP, per assumption by County in the Threshold that Truck VMT is 7% of total VMT.
- Commercial/Industrial = All Retail + Offices + Hospital + Gas Stations + Parking Lots. No Water or Waste. SF = Buildings only.
- Residential GWP = Natural Gas + Electricity Apartments Mid Rise + Single Family Housing + Hearth + Landscaping. No Schools, Library, or Commercial/Retail. No Water or Waste.
- Residential Plus School/Library = Library + Elementary + 1/2 High School

**Population Calculation:**

2.64 ppl/household per Project Description	Households
LD Residential	2134
MD Residential	1772
HD Residential	2137
Mixed Use	100
Additional possible homes on Ag Land	0
Total Homes	6143
Population	16218
Jackson CEQA Orig Proj Annual Total VMT	126508800
-- Project-Related VMT	



**APPENDIX I-2**  
**ALTERNATIVE 2 GHG THRESHOLD CALCULATIONS – PROJECT-RELATED VMT**

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**Jackson CEQA Alternative 2 Op Year 2035 Compared to Draft Extrapolated 2035 GHG Threshold Calculations**

**PROJECT RELATED VMT**

Total Operational	CalEEMod GWP	
Mobile	35957	From EMFAC2017
Waste	5158	From CalEEMod
Water	897	From CalEEMod
Area	1108	From CalEEMod
Energy	9581	From CalEEMod
<b>Total</b>	<b>52701</b>	

Energy by Land Use Electricity	CalEEMod GWP
Apartments Mid Rise	17
Apartments Mid Rise	352
City Park	0
Convenience Market (24 Hour)	1
Discount Club	89
Elementary School	65
Fast Food Restaurant with Drive Thru	65
Gasoline/Service Station	2
Gasoline/Service Station	4
General Office Building	430
Hardware/Paint Store	15
High School	72
Home Improvement Superstore	74
Library	0
Office Park	0
Parking Lot	0
Parking Lot	2
Parking Lot	1
Parking Lot	2
Parking Lot	1
Parking Lot	4
Parking Lot	5
Parking Lot	6
Parking Lot	6
Parking Lot	7
Parking Lot	9
Parking Lot	9
Parking Lot	0
Parking Lot	0
Parking Lot	0
Pharmacy/Drugstore with Drive Thru	15
Single Family Housing	1209
Strip Mall	113
Strip Mall	52
Strip Mall	79
Supermarket	105
User Defined Industrial	0
<b>Total</b>	<b>2811</b>

Energy by Land Use Natural Gas	CalEEMod GWP
Apartments Mid Rise	47
Apartments Mid Rise	959
City Park	0
Convenience Market (24 Hour)	1
Discount Club	50
Elementary School	159
Fast Food Restaurant with Drive Thru	354
Gasoline/Service Station	5
Gasoline/Service Station	11
General Office Building	464
Hardware/Paint Store	8
High School	176
Home Improvement Superstore	42
Library	0
Parking Lot	0
Pharmacy/Drugstore with Drive Thru	9
Single Family Housing	4267
Strip Mall	64
Strip Mall	29
Strip Mall	44
Supermarket	81
User Defined Industrial	0
<b>Total</b>	<b>6770</b>

**AREA DETAIL**

Area by Subcategory	Updated GWP
Architectural Coating	0
Consumer Products	0
Hearth	1010
Landscaping	98
<b>Total</b>	<b>1108</b>

**DRAFT 2030 THRESHOLDS EXTRAPOLATED TO 2035 (Note 1)**

County Thresholds	Draft 2030 County Threshold	Draft Extrapolated 2035 County Threshold (Note 1)	Jackson CEQA Alternative 2	Jackson Params	Emissions in Excess of Threshold
Transportation GWP (Note 2)			35957 MT	15022 persons	16382
Transportation Threshold	1.57	1.30 MT per capita	2.39 per capita		
Truck GWP (Note 3)			2517 MT	79257.6 Truck x100 VMT	
Truck Threshold	0.08	0.07 per 100 VMT	0.03 per 100 VMT		
Commercial/Industrial GWP (Note 4)			2258 MT	2022.1 KR2	-5446
Commercial/Industrial Threshold	4.59	3.81 MT/KR2	1.12 MT/KR2		
Residential GWP (Note 5)			7959 MT	15022 persons	-1766
Residential Threshold	0.78	0.65 MT per capita	0.53 per capita		
Residential + Schools GWP (Note 6)			8307 MT	15022 persons	
Residential + Schools Threshold	0.78	0.65 MT per capita	0.55 per capita		
					9170 Total

Sum of Mobile + Commercial/Industrial + Residential GWP	46174
Schools + Library Total GWP	472
Water and Waste	6055
Total GWP	52701
Check Sum	52701

**Notes:**

- Draft 2030 Thresholds extrapolated to 2035 with a 17% reduction from 2030.
- Transportation GWP = Total mobile source emissions.
- Truck GWP Assumed 7% of Total Transportation GWP, per assumption by County in the Threshold that Truck VMT is 7% of total VMT.
- Commercial/Industrial = All Retail + Offices + Hospital + Gas Stations + Parking Lots. No Water or Waste. SF = Buildings only.
- Residential GWP = Natural Gas + Electricity Apartments Mid Rise + Single Family Housing + Hearth + Landscaping. No Schools, Library, or Commercial/Retail. No Water or Waste.
- Residential Plus School/Library = Library + Elementary + 1/2 High School

**Population Calculation:**

2.64 ppl/household per Project Description	Households
LD Residential	2295
MD Residential	1245
HD Residential	2050
Mixed Use	100
Additional possible homes on Ag Land	0
Total Homes	5690
Population	15022
Jackson CEQA Alt 2 Annual Total VMT -- Project Related VMT	113225078

**APPENDIX I-3**  
**ORIGINAL PROJECT GHG THRESHOLD CALCULATIONS – CUMULATIVE VMT**

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**Jackson CEQA Original Project Op Year 2035 Compared to Draft Extrapolated 2035 GHG Threshold Calculations**

**CUMULATIVE VMT**

Total Operational	CalEEMod GWP	
Mobile	31540	From EMFAC2017
Waste	7483	From CalEEMod
Water	890	From CalEEMod
Area	1689	From CalEEMod
Energy	11279	From CalEEMod
<b>Total</b>	<b>52881</b>	

Energy by Land Use Electricity	CalEEMod GWP
Apartments Mid Rise	17
Apartments Mid Rise	363
City Park	0
Convenience Market (24 Hour)	1
Discount Club	87
Elementary School	64
Fast Food Restaurant with Drive Thru	63
Gasoline/Service Station	2
Gasoline/Service Station	4
General Office Building	166
Hardware/Paint Store	15
High School	71
Home Improvement Superstore	73
Hospital	333
Library	0
Office Park	0
Parking Lot	1
Parking Lot	1
Parking Lot	2
Parking Lot	1
Parking Lot	2
Parking Lot	2
Parking Lot	0
Parking Lot	2
Parking Lot	3
Parking Lot	5
Parking Lot	6
Parking Lot	6
Parking Lot	7
Parking Lot	9
Parking Lot	0
Parking Lot	0
Pharmacy/Drugstore with Drive Thru	15
Single Family Housing	600
Single Family Housing	723
Strip Mall	112
Strip Mall	51
Strip Mall	85
Supermarket	104
Unenclosed Parking with Elevator	14
Unenclosed Parking with Elevator	0
User Defined Industrial	0
<b>Total</b>	<b>3010</b>

Energy by Land Use Natural Gas	CalEEMod GWP
Apartments Mid Rise	992
Apartments Mid Rise	46
City Park	0
Convenience Market (24 Hour)	1
Discount Club	49
Elementary School	157
Fast Food Restaurant with Drive Thru	350
Gasoline/Service Station	5
Gasoline/Service Station	11
General Office Building	179
Hardware/Paint Store	8
High School	175
Home Improvement Superstore	41
Hospital	1362
Library	0
Office Park	0
Parking Lot	0
Pharmacy/Drugstore with Drive Thru	8
Single Family Housing	2116
Single Family Housing	2549
Strip Mall	63
Strip Mall	29
Strip Mall	48
Supermarket	80
Unenclosed Parking with Elevator	0
User Defined Industrial	0
<b>Total</b>	<b>8269</b>

**AREA DETAIL**

Area by Subcategory	Updated GWP
Architectural Coating	0
Consumer Products	0
Hearth	1589
Landscaping	106
<b>Total</b>	<b>1689</b>

**DRAFT 2030 THRESHOLDS EXTRAPOLATED TO 2035 (Note 1)**

County Thresholds	Draft 2030 County Threshold	Draft Extrapolated 2035 County Threshold (Note 1)	Jackson CEQA Original Project	Jackson Params	Emissions in Excess of Threshold
Transportation GWP (Note 2)			31540 MT	16218 persons	10406
Transportation Threshold	1.57	1.30 MT per capita	1.94 per capita		
Truck GWP (Note 3)			2208 MT	71608.7 Truck x100 VMT	
Truck Threshold	0.08	0.07 per 100 VMT	0.03 per 100 VMT		
Commercial/Industrial GWP (Note 4)			3406 MT	1996.1 Kft2	-4199
Commercial/Industrial Threshold	4.59	3.81 MT/Kft2	1.71 MT/Kft2		
Residential GWP (Note 5)			9095 MT	16218 persons	-1405
Residential Threshold	0.78	0.65 MT per capita	0.56 per capita		
Residential + Schools GWP (Note 6)			9439 MT	16218 persons	
Residential + Schools Threshold	0.78	0.65 MT per capita	0.58 per capita		
Sum of Mobile + Commercial/Industrial + Residential GWP			44041		4803 Total
Schools + Library Total GWP			467		
Water and Waste			8373		
Total GWP			52881		
Check Sum			52881		

Notes:

- Draft 2030 Thresholds extrapolated to 2035 with a 17% reduction from 2030.
- Transportation GWP = Total mobile source emissions.
- Truck GWP Assumed 7% of Total Transportation GWP, per assumption by County in the Threshold that Truck VMT is 7% of total VMT.
- Commercial/Industrial = All Retail + Offices + Hospital + Gas Stations + Parking Lots. No Water or Waste. SF = Buildings only.
- Residential GWP = Natural Gas + Electricity Apartments Mid Rise + Single Family Housing + Hearth + Landscaping. No Schools, Library, or Commercial/Retail. No Water or Waste.
- Residential Plus School/Library = Library + Elementary + 1/2 High School

Population Calculation:

2.64 ppl/household per Project Description	Households
LD Residential	2134
MD Residential	1772
HD Residential	2137
Mixed Use	100
Additional possible homes on Ag Land	0
Total Homes	6143
Population	16218
Jackson CEQA Orig Proj Annual Total VMT	102298134
-- Cumulative VMT	

**APPENDIX I-4**  
**ALTERNATIVE 2 GHG THRESHOLD CALCULATIONS – CUMULATIVE VMT**

---

**Jackson CEQA Alternative 2 Op Year 2035 Compared to Draft Extrapolated 2035 GHG Threshold Calculations**

**CUMULATIVE VMT**

Total Operational	CalEEMod GWP
Mobile	28405 From EMFAC2017
Waste	5158 From CalEEMod
Water	897 From CalEEMod
Area	1108 From CalEEMod
Energy	9581 From CalEEMod
<b>Total</b>	<b>45149</b>

Energy by Land Use Electricity	CalEEMod GWP
Apartments Mid Rise	17
Apartments Mid Rise	352
City Park	0
Convenience Market (24 Hour)	1
Discount Club	89
Elementary School	65
Fast Food Restaurant with Drive Thru	65
Gasoline/Service Station	2
Gasoline/Service Station	4
General Office Building	430
Hardware/Paint Store	15
High School	72
Home Improvement Superstore	74
Library	0
Office Park	0
Parking Lot	0
Parking Lot	2
Parking Lot	1
Parking Lot	2
Parking Lot	2
Parking Lot	1
Parking Lot	4
Parking Lot	5
Parking Lot	6
Parking Lot	6
Parking Lot	6
Parking Lot	7
Parking Lot	8
Parking Lot	1
Parking Lot	0
Pharmacy/Drugstore with Drive Thru	15
Single Family Housing	1209
Strip Mall	114
Strip Mall	52
Strip Mall	79
Supermarket	105
User Defined Industrial	0
<b>Total</b>	<b>2811</b>

Energy by Land Use Natural Gas	CalEEMod GWP
Apartments Mid Rise	47
Apartments Mid Rise	959
City Park	0
Convenience Market (24 Hour)	1
Discount Club	50
Elementary School	159
Fast Food Restaurant with Drive Thru	354
Gasoline/Service Station	5
Gasoline/Service Station	11
General Office Building	464
Hardware/Paint Store	8
High School	176
Home Improvement Superstore	42
Library	0
Parking Lot	0
Pharmacy/Drugstore with Drive Thru	9
Single Family Housing	4267
Single Family Housing	64
Strip Mall	29
Strip Mall	44
Supermarket	81
User Defined Industrial	0
<b>Total</b>	<b>6770</b>

**AREA DETAIL**

Area by Subcategory	Updated GWP
Architectural Coating	0
Consumer Products	0
Hearth	1010
Landscaping	98
<b>Total</b>	<b>1108</b>

**DRAFT 2030 THRESHOLDS EXTRAPOLATED TO 2035 (Note 1)**

County Thresholds	Draft 2030 County Threshold	Draft Extrapolated 2035 County Threshold (Note 1)	Jackson CEQA Alternative 2	Jackson Params	Emissions in Excess of Threshold
Transportation GWP (Note 2)			28405 MT	15022	8830
Transportation Threshold	1.57	1.30 MT per capita	1.89 per capita	persons	
Truck GWP (Note 3)			1988 MT	63508.4	
Truck Threshold	0.08	0.07 per 100 VMT	0.03 per 100 VMT	Truck x100 VMT	
Commercial/Industrial GWP (Note 4)			2258 MT	2022.1	-5446
Commercial/Industrial Threshold	4.59	3.81 MT/KR2	1.12 MT/KR2	KR2	
Residential GWP (Note 5)			7959 MT	15022	-1766
Residential Threshold	0.78	0.65 MT per capita	0.53 per capita	persons	
Residential + Schools GWP (Note 6)			8307 MT	15022	
Residential + Schools Threshold	0.78	0.65 MT per capita	0.55 per capita	persons	
					1618 Total
Sum of Mobile + Commercial/Industrial + Residential GWP			38622		
Schools + Library Total GWP			472		
Water and Waste			6055		
Total GWP			45149		
Check Sum			45149		

**Notes:**

- Draft 2030 Thresholds extrapolated to 2035 with a 17% reduction from 2030.
- Transportation GWP = Total mobile source emissions.
- Truck GWP Assumed 7% of Total Transportation GWP, per assumption by County in the Threshold that Truck VMT is 7% of total VMT.
- Commercial/Industrial = All Retail + Offices + Hospital + Gas Stations + Parking Lots. No Water or Waste. SF = Buildings only.
- Residential GWP = Natural Gas + Electricity Apartments Mid Rise + Single Family Housing + Hearth + Landscaping. No Schools, Library, or Commercial/Retail. No Water or Waste.
- Residential Plus School/Library = Library + Elementary + 1/2 High School

**Population Calculation:**

2.64 ppl/household per Project Descript	Households
LD Residential	2295
MD Residential	1245
HD Residential	2050
Mixed Use	100
Additional possible homes on Ag Land	0
Total Homes	5690
Population	15022
Jackson CEQA Alt 2 Annual Total VMT	90726317
--- Cumulative VMT	

**APPENDIX I-5**  
**ALTERNATIVE 2 GHG THRESHOLD CALCULATIONS – PROJECT-RELATED VMT**  
**WITH ADDITIONAL MITIGATION**

---

**Jackson CEQA Alternative 2 Op Year 2035 Compared to Draft Extrapolated 2035 GHG Threshold Calculations**

**PROJECT RELATED VMT with ADDITIONAL MITIGATION**

Total Operational	CalEEMod GWP
Mobile	35957 From EMFAC2017
Waste	5158 From CalEEMod
Water	897 From CalEEMod
Area	1108 From CalEEMod
Energy	9581 From CalEEMod
<b>Total</b>	<b>52701</b>

Energy by Land Use Electricity	CalEEMod GWP
Apartments Mid Rise	17
Apartments Mid Rise	352
City Park	0
Convenience Market (24 Hour)	1
Discount Club	89
Elementary School	65
Fast Food Restaurant with Drive Thru	65
Gasoline/Service Station	2
Gasoline/Service Station	4
General Office Building	430
Hardware/Paint Store	15
High School	72
Home Improvement Superstore	74
Library	0
Office Park	0
Parking Lot	0
Parking Lot	2
Parking Lot	1
Parking Lot	2
Parking Lot	1
Parking Lot	4
Parking Lot	5
Parking Lot	6
Parking Lot	6
Parking Lot	7
Parking Lot	9
Parking Lot	9
Parking Lot	0
Parking Lot	0
Parking Lot	0
Pharmacy/Drugstore with Drive Thru	15
Single Family Housing	1209
Strip Mall	113
Strip Mall	52
Strip Mall	79
Supermarket	105
User Defined Industrial	0
<b>Total</b>	<b>2811</b>

Energy by Land Use Natural Gas	CalEEMod GWP
Apartments Mid Rise	47
Apartments Mid Rise	959
City Park	0
Convenience Market (24 Hour)	1
Discount Club	50
Elementary School	159
Fast Food Restaurant with Drive Thru	354
Gasoline/Service Station	5
Gasoline/Service Station	11
General Office Building	464
Hardware/Paint Store	8
High School	176
Home Improvement Superstore	42
Library	0
Parking Lot	0
Pharmacy/Drugstore with Drive Thru	9
Single Family Housing	4267
Single Family Housing	
Strip Mall	64
Strip Mall	29
Strip Mall	44
Supermarket	81
User Defined Industrial	0
<b>Total</b>	<b>6770</b>

**AREA DETAIL**

Area by Subcategory	Updated GWP
Architectural Coating	0
Consumer Products	0
Hearth	1010
Landscaping	98
<b>Total</b>	<b>1108</b>

**DRAFT 2030 THRESHOLDS EXTRAPOLATED TO 2035 (Note 1)**

County Thresholds	Draft 2030 County Threshold	Draft Extrapolated 2035 County Threshold (Note 1)	Jackson CEQA Alternative 2	Jackson Params	Emissions in Excess of Threshold
Transportation GWP (Note 2)			28387 MT	15022 persons	8812
Transportation Threshold	1.57	1.30 MT per capita	1.89 per capita		
Truck GWP (Note 3)			1987 MT	79257.6 Truck x100 VMT	
Truck Threshold	0.08	0.07 per 100 VMT	0.03 per 100 VMT		
Commercial/Industrial GWP (Note 4)			1993 MT	2022.1 Kft2	-5711
Commercial/Industrial Threshold	4.59	3.81 MT/Kft2	0.99 MT/Kft2		
Residential GWP (Note 5)			5987 MT	15022 persons	-3738
Residential Threshold	0.78	0.65 MT per capita	0.40 per capita		
Residential + Schools GWP (Note 6)			6335 MT	15022 persons	
Residential + Schools Threshold	0.78	0.65 MT per capita	0.42 per capita		
Sum of Mobile + Commercial/Industrial + Residential GWP			36367		-637 Total
Schools + Library Total GWP			472		
Water and Waste			6055		
Total GWP			42894		
Check Sum			52701		

Additional Mitigation Reductions		
Mobile	7570	MT
Commercial	265	MT
Residential	1972	MT

Notes:

- Draft 2030 Thresholds extrapolated to 2035 with a 17% reduction from 2030.
- Transportation GWP = Total mobile source emissions.
- Truck GWP Assumed 7% of Total Transportation GWP, per assumption by County in the Threshold that Truck VMT is 7% of total VMT.
- Commercial/Industrial = All Retail + Offices + Hospital + Gas Stations + Parking Lots. No Water or Waste. SF = Buildings only.
- Residential GWP = Natural Gas + Electricity Apartments Mid Rise + Single Family Housing + Hearth + Landscaping. No Schools, Library, or Commercial/Retail. No Water or Waste.
- Residential Plus School/Library = Library + Elementary + 1/2 High School

Population Calculation:

2.64 ppl/household per Project Descript	Households
LD Residential	2295
MD Residential	1245
HD Residential	2050
Mixed Use	100
Additional possible homes on Ag Land	0
Total Homes	5690
Population	15022
Jackson CEQA Alt 2 Annual Total VMT	113225078
-- Project Related VMT	



**APPENDIX I-6**  
**ALTERNATIVE 2 GHG THRESHOLD CALCULATIONS – CUMULATIVE VMT**  
**WITH ADDITIONAL MITIGATION**

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**Jackson CEQA Alternative 2 Op Year 2035 Compared to Draft Extrapolated 2035 GHG Threshold Calculations**

**CUMULATIVE VMT with ADDITIONAL MITIGATION**

Total Operational	CalEEMod GWP
Mobile	28405 From EMFAC2017
Waste	5158 From CalEEMod
Water	897 From CalEEMod
Area	1108 From CalEEMod
Energy	9581 From CalEEMod
<b>Total</b>	<b>45149</b>

Energy by Land Use Natural Gas	CalEEMod GWP
Apartments Mid Rise	47
Apartments Mid Rise	959
City Park	0
Convenience Market (24 Hour)	1
Discount Club	50
Elementary School	159
Fast Food Restaurant with Drive Thru	354
Gasoline/Service Station	5
Gasoline/Service Station	11
General Office Building	464
Hardware/Paint Store	8
High School	176
Home Improvement Superstore	42
Library	0
Parking Lot	0
Pharmacy/Drugstore with Drive Thru	9
Single Family Housing	4267
Single Family Housing	
Strip Mall	64
Strip Mall	29
Strip Mall	44
Supermarket	81
User Defined Industrial	0
<b>Total</b>	<b>6770</b>

**AREA DETAIL**

Area by Subcategory	Updated GWP
Architectural Coating	0
Consumer Products	0
Hearth	1010
Landscaping	98
<b>Total</b>	<b>1108</b>

Energy by Land Use Electricity	CalEEMod GWP
Apartments Mid Rise	17
Apartments Mid Rise	352
City Park	0
Convenience Market (24 Hour)	1
Discount Club	89
Elementary School	65
Fast Food Restaurant with Drive Thru	65
Gasoline/Service Station	2
Gasoline/Service Station	4
General Office Building	430
Hardware/Paint Store	15
High School	72
Home Improvement Superstore	74
Library	0
Office Park	0
Parking Lot	0
Parking Lot	2
Parking Lot	1
Parking Lot	2
Parking Lot	2
Parking Lot	1
Parking Lot	4
Parking Lot	5
Parking Lot	6
Parking Lot	6
Parking Lot	6
Parking Lot	6
Parking Lot	7
Parking Lot	8
Parking Lot	1
Parking Lot	0
Pharmacy/Drugstore with Drive Thru	15
Single Family Housing	1209
Strip Mall	114
Strip Mall	52
Strip Mall	79
Supermarket	105
User Defined Industrial	0
<b>Total</b>	<b>2811</b>

**DRAFT 2030 THRESHOLDS EXTRAPOLATED TO 2035 (Note 1)**

County Thresholds	Draft 2030 County Threshold	Draft Extrapolated 2035 County Threshold (Note 1)	Jackson CEQA Alternative 2	Jackson Params	Emissions in Excess of Threshold								
Transportation GWP (Note 2)			21505 MT	15022 persons	1930								
Transportation Threshold	1.57	1.30 MT per capita	1.43 per capita	persons									
Truck GWP (Note 3)			1505 MT	63508.4 Truck x100 VMT	-5711								
Truck Threshold	0.08	0.07 per 100 VMT	0.02 per 100 VMT	Truck x100 VMT									
Commercial/Industrial GWP (Note 4)			1993 MT	2022.1 Kft2	-3738								
Commercial/Industrial Threshold	4.59	3.81 MT/Kft2	0.99 MT/Kft2	Kft2									
Residential GWP (Note 5)			5987 MT	15022 persons	-7519 Total								
Residential Threshold	0.78	0.65 MT per capita	0.40 per capita	persons									
Residential + Schools GWP (Note 6)			6335 MT	15022 persons									
Residential + Schools Threshold	0.78	0.65 MT per capita	0.42 per capita	persons									
Sum of Mobile + Commercial/Industrial + Residential GWP			29485										
Schools + Library Total GWP			472										
Water and Waste			6055										
Total GWP			36012										
Check Sum			45149										
			<table border="1"> <thead> <tr> <th colspan="2">Additional Mitigation Reductions</th> </tr> </thead> <tbody> <tr> <td>Mobile</td> <td>6900 MT</td> </tr> <tr> <td>Commercial</td> <td>265 MT</td> </tr> <tr> <td>Residential</td> <td>1972 MT</td> </tr> </tbody> </table>		Additional Mitigation Reductions		Mobile	6900 MT	Commercial	265 MT	Residential	1972 MT	
Additional Mitigation Reductions													
Mobile	6900 MT												
Commercial	265 MT												
Residential	1972 MT												

Notes:

- Draft 2030 Thresholds extrapolated to 2035 with a 17% reduction from 2030.
- Transportation GWP = Total mobile source emissions.
- Truck GWP Assumed 7% of Total Transportation GWP, per assumption by County in the Threshold that Truck VMT is 7% of total VMT.
- Commercial/Industrial = All Retail + Offices + Hospital + Gas Stations + Parking Lots. No Water or Waste. SF = Buildings only.
- Residential GWP = Natural Gas + Electricity Apartments Mid Rise + Single Family Housing + Hearth + Landscaping. No Schools, Library, or Commercial/Retail. No Water or Waste.
- Residential Plus School/Library = Library + Elementary + 1/2 High School

Population Calculation:

2.64 ppl/household per Project Descript	Households
LD Residential	2295
MD Residential	1245
HD Residential	2050
Mixed Use	100
Additional possible homes on Ag Land	0
Total Homes	5690
Population	15022
Jackson CEQA Alt 2 Annual Total VMT	90726317
-- Cumulative VMT	

**APPENDIX J**  
**ORIGINAL PROJECT AND ALTERNATIVE 2 CONSTRUCTION EMISSION ESTIMATES**

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**APPENDIX J-1**  
**ORIGINAL PROJECT ANNUAL CONSTRUCTION EMISSIONS**

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Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	298.40	1000sqft	8.22	298,400.00	0
Hospital	433.40	1000sqft	11.94	433,400.00	0
Office Park	0.00	1000sqft	0.00	0.00	0
Pharmacy/Drugstore with Drive Thru	32.30	1000sqft	1.20	32,300.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,123.00	0
Parking Lot	465.20	1000sqft	10.68	465,200.00	0
Parking Lot	386.80	1000sqft	8.88	386,800.00	0
Parking Lot	154.20	1000sqft	3.54	154,200.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	94.10	1000sqft	2.16	94,100.00	0
Parking Lot	271.80	1000sqft	6.24	271,800.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	452.00	1000sqft	10.38	452,000.00	0
Parking Lot	341.50	1000sqft	7.84	341,500.00	0

## Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Parking Lot	173.40	1000sqft	3.98	173,400.00	0
Parking Lot	238.70	1000sqft	5.48	238,700.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Unenclosed Parking with Elevator	173.40	1000sqft	3.98	173,400.00	0
Unenclosed Parking with Elevator	0.00	1000sqft	0.00	0.00	0
City Park	39.20	Acre	39.20	1,707,552.00	0
City Park	39.10	Acre	39.10	1,703,196.00	0
Fast Food Restaurant with Drive Thru	38.70	1000sqft	1.44	38,700.00	0
Apartments Mid Rise	2,137.00	Dwelling Unit	85.00	2,137,000.00	5706
Apartments Mid Rise	100.00	Dwelling Unit	11.76	178,600.00	267
Single Family Housing	2,134.00	Dwelling Unit	355.70	3,841,200.00	5698
Single Family Housing	1,772.00	Dwelling Unit	136.30	3,189,600.00	4731
Convenience Market (24 Hour)	3.20	1000sqft	0.12	3,200.00	0
Discount Club	193.70	1000sqft	7.12	193,700.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.12	3,000.00	0
Hardware/Paint Store	32.30	1000sqft	1.20	32,300.00	0
Home Improvement Superstore	161.40	1000sqft	5.92	161,400.00	0
Strip Mall	113.00	1000sqft	4.16	113,000.00	0
Strip Mall	188.60	1000sqft	6.92	188,600.00	0
Strip Mall	248.40	1000sqft	0.00	248,400.00	0
Supermarket	64.60	1000sqft	2.36	64,600.00	0

## 1.2 Other Project Characteristics

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	236.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O intensity SMUD default.

Land Use - Non-default from Project Description. Mixed Use Retail lot acreage set to 0 per User Manual.

Construction Phase - Days adjusted to match 15 year construction plan.

Off-road Equipment - Default equipment.

Trips and VMT - Based on project land use.

Grading - Grading area based on land use.

Architectural Coating - Default coating.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	125.00
tblConstructionPhase	NumDays	1,395.00	322.00
tblConstructionPhase	NumDays	990.00	229.00
tblConstructionPhase	NumDays	13,950.00	3,224.00
tblConstructionPhase	NumDays	990.00	3,224.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,237.00
tblFireplaces	NumberGas	0.00	3,906.00
tblFireplaces	NumberNoFireplace	2,237.00	0.00
tblFireplaces	NumberNoFireplace	3,906.00	0.00
tblGrading	AcresOfGrading	805.00	913.00
tblLandUse	LandUseSquareFeet	0.00	70,123.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	6.85	8.22
tblLandUse	LotAcreage	9.95	11.94
tblLandUse	LotAcreage	0.74	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.89	1.44
tblLandUse	LotAcreage	56.24	85.00
tblLandUse	LotAcreage	2.63	11.76
tblLandUse	LotAcreage	692.86	355.70
tblLandUse	LotAcreage	575.32	136.30
tblLandUse	LotAcreage	0.07	0.12
tblLandUse	LotAcreage	4.45	7.12
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	0.74	1.20



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tblLandUse	LotAcreage	3.71	5.92
tblLandUse	LotAcreage	2.59	4.16
tblLandUse	LotAcreage	4.33	6.92
tblLandUse	LotAcreage	5.70	0.00
tblLandUse	LotAcreage	1.48	2.36
tblProjectCharacteristics	CO2IntensityFactor	590.31	236.9
tblTripsAndVMT	VendorTripNumber	2,207.00	1,003.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	6,812.00	4,531.00
tblTripsAndVMT	WorkerTripNumber	1,362.00	906.00

## 2.0 Emissions Summary

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### 2.1 Overall Construction

#### Unmitigated Construction

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, 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
Year	tons/yr										MT/yr					
2020	0.5689	6.0959	3.6028	6.8000e-003	2.0441	0.2864	2.3305	0.9046	0.2635	1.1680	0.0000	598.3950	598.3950	0.1887	0.0000	603.1135
2021	0.4800	4.7949	3.4819	6.7800e-003	1.0590	0.2099	1.2689	0.3632	0.1931	0.5563	0.0000	596.4277	596.4277	0.1884	0.0000	601.1368
2022	3.4097	7.6041	10.1612	0.0358	2.4380	0.1186	2.5566	0.6557	0.1108	0.7666	0.0000	3,299.7905	3,299.7905	0.1934	0.0000	3,304.6259
2023	8.3120	14.0372	20.3526	0.0804	5.9532	0.1500	6.1033	1.6009	0.1413	1.7422	0.0000	7,433.9847	7,433.9847	0.3201	0.0000	7,441.9866
2024	8.2182	13.6796	19.1832	0.0791	5.9990	0.1370	6.1360	1.6132	0.1289	1.7421	0.0000	7,312.3125	7,312.3125	0.3109	0.0000	7,320.0841
2025	8.0478	13.1874	17.9193	0.0768	5.9760	0.1227	6.0987	1.6070	0.1154	1.7224	0.0000	7,108.4673	7,108.4673	0.2995	0.0000	7,115.9541
2026	7.9381	12.9094	16.9009	0.0750	5.9759	0.1210	6.0969	1.6070	0.1137	1.7207	0.0000	6,950.6607	6,950.6607	0.2910	0.0000	6,957.9344
2027	7.8316	12.6557	15.9855	0.0735	5.9759	0.1187	6.0946	1.6070	0.1117	1.7186	0.0000	6,808.6740	6,808.6740	0.2831	0.0000	6,815.7524
2028	7.6932	12.3891	15.1241	0.0718	5.9529	0.1157	6.0686	1.6008	0.1088	1.7096	0.0000	6,657.5435	6,657.5435	0.2751	0.0000	6,664.4207
2029	7.6055	12.2297	14.4216	0.0708	5.9758	0.1136	6.0894	1.6069	0.1069	1.7138	0.0000	6,571.5943	6,571.5943	0.2694	0.0000	6,578.3299
2030	7.4798	11.4087	13.7506	0.0703	5.9757	0.0576	6.0334	1.6069	0.0552	1.6621	0.0000	6,513.5614	6,513.5614	0.2054	0.0000	6,518.6950
2031	7.3617	11.2326	13.1107	0.0693	5.9757	0.0554	6.0311	1.6069	0.0531	1.6600	0.0000	6,427.5100	6,427.5100	0.1996	0.0000	6,432.5009
2032	7.2842	11.1155	12.5996	0.0687	5.9986	0.0535	6.0521	1.6131	0.0514	1.6644	0.0000	6,377.4044	6,377.4044	0.1954	0.0000	6,382.2891
2033	7.1430	10.8929	12.0339	0.0675	5.9528	0.0513	6.0041	1.6007	0.0493	1.6501	0.0000	6,264.7052	6,264.7052	0.1897	0.0000	6,269.4474
2034	6.9782	10.1982	11.0392	0.0636	5.6755	0.0473	5.7227	1.5260	0.0455	1.5715	0.0000	5,901.7296	5,901.7296	0.1761	0.0000	5,906.1324
<b>Maximum</b>	<b>8.3120</b>	<b>14.0372</b>	<b>20.3526</b>	<b>0.0804</b>	<b>5.9990</b>	<b>0.2864</b>	<b>6.1360</b>	<b>1.6132</b>	<b>0.2635</b>	<b>1.7422</b>	<b>0.0000</b>	<b>7,433.9847</b>	<b>7,433.9847</b>	<b>0.3201</b>	<b>0.0000</b>	<b>7,441.9866</b>

**2.1 Overall Construction**  
Mitigated Construction

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.5689	6.0959	3.6028	6.8000e-003	2.0441	0.2864	2.3305	0.9046	0.2635	1.1680	0.0000	598.3943	598.3943	0.1887	0.0000	603.1129
2021	0.4800	4.7949	3.4818	6.7800e-003	1.0590	0.2099	1.2689	0.3632	0.1931	0.5563	0.0000	596.4270	596.4270	0.1884	0.0000	601.1361
2022	3.4097	7.6041	10.1612	0.0358	2.4380	0.1186	2.5566	0.6557	0.1108	0.7666	0.0000	3,299.7901	3,299.7901	0.1934	0.0000	3,304.6255
2023	8.3120	14.0372	20.3526	0.0804	5.9532	0.1500	6.1033	1.6009	0.1413	1.7422	0.0000	7,433.9843	7,433.9843	0.3201	0.0000	7,441.9862
2024	8.2182	13.6796	19.1832	0.0791	5.9990	0.1370	6.1360	1.6132	0.1289	1.7421	0.0000	7,312.3121	7,312.3121	0.3109	0.0000	7,320.0837
2025	8.0478	13.1874	17.9193	0.0768	5.9760	0.1227	6.0987	1.6070	0.1154	1.7224	0.0000	7,108.4669	7,108.4669	0.2995	0.0000	7,115.9536
2026	7.9381	12.9094	16.9009	0.0750	5.9759	0.1210	6.0969	1.6070	0.1137	1.7207	0.0000	6,950.6603	6,950.6603	0.2910	0.0000	6,957.9340
2027	7.8316	12.6557	15.9855	0.0735	5.9759	0.1187	6.0946	1.6070	0.1117	1.7186	0.0000	6,808.6736	6,808.6736	0.2831	0.0000	6,815.7520
2028	7.6932	12.3891	15.1241	0.0718	5.9529	0.1157	6.0686	1.6008	0.1088	1.7096	0.0000	6,657.5431	6,657.5431	0.2751	0.0000	6,664.4203
2029	7.6055	12.2297	14.4216	0.0708	5.9758	0.1136	6.0894	1.6069	0.1069	1.7138	0.0000	6,571.5939	6,571.5939	0.2694	0.0000	6,578.3295
2030	7.4798	11.4087	13.7506	0.0703	5.9757	0.0576	6.0334	1.6069	0.0552	1.6621	0.0000	6,513.5610	6,513.5610	0.2054	0.0000	6,518.6946
2031	7.3617	11.2326	13.1107	0.0693	5.9757	0.0554	6.0311	1.6069	0.0531	1.6600	0.0000	6,427.5096	6,427.5096	0.1996	0.0000	6,432.5004
2032	7.2842	11.1155	12.5996	0.0687	5.9986	0.0535	6.0521	1.6131	0.0514	1.6644	0.0000	6,377.4040	6,377.4040	0.1954	0.0000	6,382.2887
2033	7.1430	10.8929	12.0339	0.0675	5.9528	0.0513	6.0041	1.6007	0.0493	1.6501	0.0000	6,264.7047	6,264.7047	0.1897	0.0000	6,269.4470
2034	6.9782	10.1982	11.0392	0.0636	5.6755	0.0473	5.7227	1.5260	0.0455	1.5715	0.0000	5,901.7291	5,901.7291	0.1761	0.0000	5,906.1320
<b>Maximum</b>	<b>8.3120</b>	<b>14.0372</b>	<b>20.3526</b>	<b>0.0804</b>	<b>5.9990</b>	<b>0.2864</b>	<b>6.1360</b>	<b>1.6132</b>	<b>0.2635</b>	<b>1.7422</b>	<b>0.0000</b>	<b>7,433.9843</b>	<b>7,433.9843</b>	<b>0.3201</b>	<b>0.0000</b>	<b>7,441.9862</b>

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	1.5150	1.5150
2	4-1-2020	6-30-2020	1.5353	1.5353
3	7-1-2020	9-30-2020	1.7999	1.7999
4	10-1-2020	12-31-2020	1.8000	1.8000
5	1-1-2021	3-31-2021	1.6301	1.6301
6	4-1-2021	6-30-2021	1.6481	1.6481
7	7-1-2021	9-30-2021	1.4941	1.4941
8	10-1-2021	12-31-2021	0.4991	0.4991
9	1-1-2022	3-31-2022	0.4255	0.4255
10	4-1-2022	6-30-2022	0.4301	0.4301
11	7-1-2022	9-30-2022	3.8483	3.8483
12	10-1-2022	12-31-2022	6.3646	6.3646
13	1-1-2023	3-31-2023	5.5943	5.5943
14	4-1-2023	6-30-2023	5.6030	5.6030
15	7-1-2023	9-30-2023	5.6646	5.6646
16	10-1-2023	12-31-2023	5.7186	5.7186
17	1-1-2024	3-31-2024	5.4965	5.4965
18	4-1-2024	6-30-2024	5.4473	5.4473
19	7-1-2024	9-30-2024	5.5071	5.5071
20	10-1-2024	12-31-2024	5.5569	5.5569
21	1-1-2025	3-31-2025	5.2891	5.2891
22	4-1-2025	6-30-2025	5.3022	5.3022
23	7-1-2025	9-30-2025	5.3605	5.3605

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24	10-1-2025	12-31-2025	5.4066	5.4066
25	1-1-2026	3-31-2026	5.1900	5.1900
26	4-1-2026	6-30-2026	5.2047	5.2047
27	7-1-2026	9-30-2026	5.2619	5.2619
28	10-1-2026	12-31-2026	5.3054	5.3054
29	1-1-2027	3-31-2027	5.0980	5.0980
30	4-1-2027	6-30-2027	5.1140	5.1140
31	7-1-2027	9-30-2027	5.1702	5.1702
32	10-1-2027	12-31-2027	5.2112	5.2112
33	1-1-2028	3-31-2028	5.0695	5.0695
34	4-1-2028	6-30-2028	5.0310	5.0310
35	7-1-2028	9-30-2028	5.0863	5.0863
36	10-1-2028	12-31-2028	5.1252	5.1252
37	1-1-2029	3-31-2029	4.9304	4.9304
38	4-1-2029	6-30-2029	4.9486	4.9486
39	7-1-2029	9-30-2029	5.0030	5.0030
40	10-1-2029	12-31-2029	5.0400	5.0400
41	1-1-2030	3-31-2030	4.6939	4.6939
42	4-1-2030	6-30-2030	4.7109	4.7109
43	7-1-2030	9-30-2030	4.7627	4.7627
44	10-1-2030	12-31-2030	4.7982	4.7982
45	1-1-2031	3-31-2031	4.6179	4.6179
46	4-1-2031	6-30-2031	4.6356	4.6356
47	7-1-2031	9-30-2031	4.6865	4.6865
48	10-1-2031	12-31-2031	4.7205	4.7205
49	1-1-2032	3-31-2032	4.6003	4.6003
50	4-1-2032	6-30-2032	4.5675	4.5675

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51	7-1-2032	9-30-2032	4.6177	4.6177
52	10-1-2032	12-31-2032	4.6508	4.6508
53	1-1-2033	3-31-2033	4.4921	4.4921
54	4-1-2033	6-30-2033	4.5098	4.5098
55	7-1-2033	9-30-2033	4.5594	4.5594
56	10-1-2033	12-31-2033	4.5919	4.5919
57	1-1-2034	3-31-2034	4.4406	4.4406
58	4-1-2034	6-30-2034	4.4576	4.4576
59	7-1-2034	9-30-2034	4.5066	4.5066
		Highest	6.3646	6.3646

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638
Energy	0.9559	8.3287	4.6525	0.0521		0.6604	0.6604		0.6604	0.6604	0.0000	17,657.6676	17,657.6676	1.1849	0.3811	17,800.8446
Mobile	18.6745	97.9421	179.2942	0.7878	88.7410	0.4209	89.1619	23.7599	0.3909	24.1508	0.0000	72,977.9842	72,977.9842	2.9303	0.0000	73,051.2415
Waste						0.0000	0.0000		0.0000	0.0000	3,020.5279	0.0000	3,020.5279	178.5081	0.0000	7,483.2299
Water						0.0000	0.0000		0.0000	0.0000	217.6233	506.9556	724.5790	0.8111	0.4861	889.7139
<b>Total</b>	<b>74.6785</b>	<b>108.3585</b>	<b>247.7304</b>	<b>0.8519</b>	<b>88.7410</b>	<b>1.5427</b>	<b>90.2838</b>	<b>23.7599</b>	<b>1.5127</b>	<b>25.2726</b>	<b>3,238.1512</b>	<b>92,819.7482</b>	<b>96,057.8993</b>	<b>183.5634</b>	<b>0.8960</b>	<b>100,913.9936</b>

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**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	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638
Energy	0.8306	7.2383	4.0509	0.0453		0.5739	0.5739		0.5739	0.5739	0.0000	11,198.5814	11,198.5814	0.5222	0.2261	11,279.0252
Mobile	18.6745	97.9421	179.2942	0.7878	88.7410	0.4209	89.1619	23.7599	0.3909	24.1508	0.0000	72,977.9842	72,977.9842	2.9303	0.0000	73,051.2415
Waste						0.0000	0.0000		0.0000	0.0000	3,020.5279	0.0000	3,020.5279	178.5081	0.0000	7,483.2299
Water						0.0000	0.0000		0.0000	0.0000	217.6233	506.9556	724.5790	0.8111	0.4861	889.7139
<b>Total</b>	<b>74.5532</b>	<b>107.2681</b>	<b>247.1289</b>	<b>0.8451</b>	<b>88.7410</b>	<b>1.4562</b>	<b>90.1972</b>	<b>23.7599</b>	<b>1.4262</b>	<b>25.1861</b>	<b>3,238.1512</b>	<b>86,360.6619</b>	<b>89,598.8131</b>	<b>182.9007</b>	<b>0.7411</b>	<b>94,392.1742</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.17	1.01	0.24	0.80	0.00	5.61	0.10	0.00	5.72	0.34	0.00	6.96	6.72	0.36	17.29	6.46

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	6/23/2020	5	125	
3	Grading	Grading	6/24/2020	9/16/2021	5	322	
4	Paving	Paving	9/16/2021	8/2/2022	5	229	
5	Building Construction	Building Construction	8/3/2022	12/11/2034	5	3224	
6	Architectural Coating	Architectural Coating	8/22/2022	12/28/2034	5	3224	

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

**Acres of Grading (Grading Phase): 913**

**Acres of Paving: 84.62**

**Residential Indoor: 18,926,460; Residential Outdoor: 6,308,820; Non-Residential Indoor: 3,543,935; Non-Residential Outdoor: 1,181,312; Striped Parking Area: 221,148 (Architectural Coating – sqft)**

**OffRoad Equipment**



## Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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
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
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	4,531.00	1,003.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	906.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1291	0.0000	1.1291	0.6207	0.0000	0.6207	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2548	2.6511	1.3446	2.3800e-003		0.1373	0.1373		0.1264	0.1264	0.0000	208.9417	208.9417	0.0676	0.0000	210.6311
<b>Total</b>	<b>0.2548</b>	<b>2.6511</b>	<b>1.3446</b>	<b>2.3800e-003</b>	<b>1.1291</b>	<b>0.1373</b>	<b>1.2665</b>	<b>0.6207</b>	<b>0.1264</b>	<b>0.7470</b>	<b>0.0000</b>	<b>208.9417</b>	<b>208.9417</b>	<b>0.0676</b>	<b>0.0000</b>	<b>210.6311</b>

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**3.3 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1900e-003	2.8400e-003	0.0311	8.0000e-005	8.2600e-003	6.0000e-005	8.3200e-003	2.2000e-003	5.0000e-005	2.2500e-003	0.0000	7.3208	7.3208	2.1000e-004	0.0000	7.3260
<b>Total</b>	<b>4.1900e-003</b>	<b>2.8400e-003</b>	<b>0.0311</b>	<b>8.0000e-005</b>	<b>8.2600e-003</b>	<b>6.0000e-005</b>	<b>8.3200e-003</b>	<b>2.2000e-003</b>	<b>5.0000e-005</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>7.3208</b>	<b>7.3208</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>7.3260</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1291	0.0000	1.1291	0.6207	0.0000	0.6207	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2548	2.6511	1.3446	2.3800e-003		0.1373	0.1373		0.1264	0.1264	0.0000	208.9415	208.9415	0.0676	0.0000	210.6309
<b>Total</b>	<b>0.2548</b>	<b>2.6511</b>	<b>1.3446</b>	<b>2.3800e-003</b>	<b>1.1291</b>	<b>0.1373</b>	<b>1.2665</b>	<b>0.6207</b>	<b>0.1264</b>	<b>0.7470</b>	<b>0.0000</b>	<b>208.9415</b>	<b>208.9415</b>	<b>0.0676</b>	<b>0.0000</b>	<b>210.6309</b>

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**3.3 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1900e-003	2.8400e-003	0.0311	8.0000e-005	8.2600e-003	6.0000e-005	8.3200e-003	2.2000e-003	5.0000e-005	2.2500e-003	0.0000	7.3208	7.3208	2.1000e-004	0.0000	7.3260
<b>Total</b>	<b>4.1900e-003</b>	<b>2.8400e-003</b>	<b>0.0311</b>	<b>8.0000e-005</b>	<b>8.2600e-003</b>	<b>6.0000e-005</b>	<b>8.3200e-003</b>	<b>2.2000e-003</b>	<b>5.0000e-005</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>7.3208</b>	<b>7.3208</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>7.3260</b>

**3.4 Grading - 2020**

**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					0.8966	0.0000	0.8966	0.2790	0.0000	0.2790	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3048	3.4385	2.1891	4.2500e-003		0.1489	0.1489		0.1370	0.1370	0.0000	373.2174	373.2174	0.1207	0.0000	376.2351
<b>Total</b>	<b>0.3048</b>	<b>3.4385</b>	<b>2.1891</b>	<b>4.2500e-003</b>	<b>0.8966</b>	<b>0.1489</b>	<b>1.0455</b>	<b>0.2790</b>	<b>0.1370</b>	<b>0.4160</b>	<b>0.0000</b>	<b>373.2174</b>	<b>373.2174</b>	<b>0.1207</b>	<b>0.0000</b>	<b>376.2351</b>

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**3.4 Grading - 2020**

**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	5.1000e-003	3.4600e-003	0.0379	1.0000e-004	0.0101	7.0000e-005	0.0101	2.6800e-003	7.0000e-005	2.7400e-003	0.0000	8.9151	8.9151	2.5000e-004	0.0000	8.9214
<b>Total</b>	<b>5.1000e-003</b>	<b>3.4600e-003</b>	<b>0.0379</b>	<b>1.0000e-004</b>	<b>0.0101</b>	<b>7.0000e-005</b>	<b>0.0101</b>	<b>2.6800e-003</b>	<b>7.0000e-005</b>	<b>2.7400e-003</b>	<b>0.0000</b>	<b>8.9151</b>	<b>8.9151</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>8.9214</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8966	0.0000	0.8966	0.2790	0.0000	0.2790	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3048	3.4385	2.1891	4.2500e-003		0.1489	0.1489		0.1370	0.1370	0.0000	373.2170	373.2170	0.1207	0.0000	376.2346
<b>Total</b>	<b>0.3048</b>	<b>3.4385</b>	<b>2.1891</b>	<b>4.2500e-003</b>	<b>0.8966</b>	<b>0.1489</b>	<b>1.0455</b>	<b>0.2790</b>	<b>0.1370</b>	<b>0.4160</b>	<b>0.0000</b>	<b>373.2170</b>	<b>373.2170</b>	<b>0.1207</b>	<b>0.0000</b>	<b>376.2346</b>

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**3.4 Grading - 2020**

**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	5.1000e-003	3.4600e-003	0.0379	1.0000e-004	0.0101	7.0000e-005	0.0101	2.6800e-003	7.0000e-005	2.7400e-003	0.0000	8.9151	8.9151	2.5000e-004	0.0000	8.9214
<b>Total</b>	<b>5.1000e-003</b>	<b>3.4600e-003</b>	<b>0.0379</b>	<b>1.0000e-004</b>	<b>0.0101</b>	<b>7.0000e-005</b>	<b>0.0101</b>	<b>2.6800e-003</b>	<b>7.0000e-005</b>	<b>2.7400e-003</b>	<b>0.0000</b>	<b>8.9151</b>	<b>8.9151</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>8.9214</b>

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0412	0.0000	1.0412	0.3585	0.0000	0.3585	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3877	4.2920	2.8563	5.7400e-003		0.1836	0.1836		0.1690	0.1690	0.0000	504.0786	504.0786	0.1630	0.0000	508.1543
<b>Total</b>	<b>0.3877</b>	<b>4.2920</b>	<b>2.8563</b>	<b>5.7400e-003</b>	<b>1.0412</b>	<b>0.1836</b>	<b>1.2248</b>	<b>0.3585</b>	<b>0.1690</b>	<b>0.5274</b>	<b>0.0000</b>	<b>504.0786</b>	<b>504.0786</b>	<b>0.1630</b>	<b>0.0000</b>	<b>508.1543</b>

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**3.4 Grading - 2021**

**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	6.4100e-003	4.1900e-003	0.0468	1.3000e-004	0.0136	9.0000e-005	0.0137	3.6100e-003	9.0000e-005	3.7000e-003	0.0000	11.6287	11.6287	3.1000e-004	0.0000	11.6363
<b>Total</b>	<b>6.4100e-003</b>	<b>4.1900e-003</b>	<b>0.0468</b>	<b>1.3000e-004</b>	<b>0.0136</b>	<b>9.0000e-005</b>	<b>0.0137</b>	<b>3.6100e-003</b>	<b>9.0000e-005</b>	<b>3.7000e-003</b>	<b>0.0000</b>	<b>11.6287</b>	<b>11.6287</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>11.6363</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0412	0.0000	1.0412	0.3585	0.0000	0.3585	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3877	4.2920	2.8563	5.7400e-003		0.1836	0.1836		0.1690	0.1690	0.0000	504.0780	504.0780	0.1630	0.0000	508.1537
<b>Total</b>	<b>0.3877</b>	<b>4.2920</b>	<b>2.8563</b>	<b>5.7400e-003</b>	<b>1.0412</b>	<b>0.1836</b>	<b>1.2248</b>	<b>0.3585</b>	<b>0.1690</b>	<b>0.5274</b>	<b>0.0000</b>	<b>504.0780</b>	<b>504.0780</b>	<b>0.1630</b>	<b>0.0000</b>	<b>508.1537</b>

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**3.4 Grading - 2021**

**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	6.4100e-003	4.1900e-003	0.0468	1.3000e-004	0.0136	9.0000e-005	0.0137	3.6100e-003	9.0000e-005	3.7000e-003	0.0000	11.6287	11.6287	3.1000e-004	0.0000	11.6363
<b>Total</b>	<b>6.4100e-003</b>	<b>4.1900e-003</b>	<b>0.0468</b>	<b>1.3000e-004</b>	<b>0.0136</b>	<b>9.0000e-005</b>	<b>0.0137</b>	<b>3.6100e-003</b>	<b>9.0000e-005</b>	<b>3.7000e-003</b>	<b>0.0000</b>	<b>11.6287</b>	<b>11.6287</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>11.6363</b>

**3.5 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0483	0.4974	0.5642	8.8000e-004		0.0261	0.0261		0.0240	0.0240	0.0000	77.0904	77.0904	0.0249	0.0000	77.7137
Paving	0.0355					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0839</b>	<b>0.4974</b>	<b>0.5642</b>	<b>8.8000e-004</b>		<b>0.0261</b>	<b>0.0261</b>		<b>0.0240</b>	<b>0.0240</b>	<b>0.0000</b>	<b>77.0904</b>	<b>77.0904</b>	<b>0.0249</b>	<b>0.0000</b>	<b>77.7137</b>



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**3.5 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-003	1.3100e-003	0.0146	4.0000e-005	4.2400e-003	3.0000e-005	4.2700e-003	1.1300e-003	3.0000e-005	1.1600e-003	0.0000	3.6300	3.6300	1.0000e-004	0.0000	3.6324
<b>Total</b>	<b>2.0000e-003</b>	<b>1.3100e-003</b>	<b>0.0146</b>	<b>4.0000e-005</b>	<b>4.2400e-003</b>	<b>3.0000e-005</b>	<b>4.2700e-003</b>	<b>1.1300e-003</b>	<b>3.0000e-005</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>3.6300</b>	<b>3.6300</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.6324</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0483	0.4974	0.5642	8.8000e-004		0.0261	0.0261		0.0240	0.0240	0.0000	77.0903	77.0903	0.0249	0.0000	77.7136
Paving	0.0355					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0839</b>	<b>0.4974</b>	<b>0.5642</b>	<b>8.8000e-004</b>		<b>0.0261</b>	<b>0.0261</b>		<b>0.0240</b>	<b>0.0240</b>	<b>0.0000</b>	<b>77.0903</b>	<b>77.0903</b>	<b>0.0249</b>	<b>0.0000</b>	<b>77.7136</b>

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**3.5 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-003	1.3100e-003	0.0146	4.0000e-005	4.2400e-003	3.0000e-005	4.2700e-003	1.1300e-003	3.0000e-005	1.1600e-003	0.0000	3.6300	3.6300	1.0000e-004	0.0000	3.6324
<b>Total</b>	<b>2.0000e-003</b>	<b>1.3100e-003</b>	<b>0.0146</b>	<b>4.0000e-005</b>	<b>4.2400e-003</b>	<b>3.0000e-005</b>	<b>4.2700e-003</b>	<b>1.1300e-003</b>	<b>3.0000e-005</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>3.6300</b>	<b>3.6300</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.6324</b>

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0838	0.8455	1.1081	1.7300e-003		0.0432	0.0432		0.0397	0.0397	0.0000	152.2094	152.2094	0.0492	0.0000	153.4401
Paving	0.0701					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1539</b>	<b>0.8455</b>	<b>1.1081</b>	<b>1.7300e-003</b>		<b>0.0432</b>	<b>0.0432</b>		<b>0.0397</b>	<b>0.0397</b>	<b>0.0000</b>	<b>152.2094</b>	<b>152.2094</b>	<b>0.0492</b>	<b>0.0000</b>	<b>153.4401</b>

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**3.5 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6900e-003	2.3200e-003	0.0265	8.0000e-005	8.3700e-003	6.0000e-005	8.4300e-003	2.2300e-003	5.0000e-005	2.2800e-003	0.0000	6.9091	6.9091	1.7000e-004	0.0000	6.9134
<b>Total</b>	<b>3.6900e-003</b>	<b>2.3200e-003</b>	<b>0.0265</b>	<b>8.0000e-005</b>	<b>8.3700e-003</b>	<b>6.0000e-005</b>	<b>8.4300e-003</b>	<b>2.2300e-003</b>	<b>5.0000e-005</b>	<b>2.2800e-003</b>	<b>0.0000</b>	<b>6.9091</b>	<b>6.9091</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>6.9134</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0838	0.8455	1.1081	1.7300e-003		0.0432	0.0432		0.0397	0.0397	0.0000	152.2093	152.2093	0.0492	0.0000	153.4399
Paving	0.0701					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1539</b>	<b>0.8455</b>	<b>1.1081</b>	<b>1.7300e-003</b>		<b>0.0432</b>	<b>0.0432</b>		<b>0.0397</b>	<b>0.0397</b>	<b>0.0000</b>	<b>152.2093</b>	<b>152.2093</b>	<b>0.0492</b>	<b>0.0000</b>	<b>153.4399</b>

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**3.5 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6900e-003	2.3200e-003	0.0265	8.0000e-005	8.3700e-003	6.0000e-005	8.4300e-003	2.2300e-003	5.0000e-005	2.2800e-003	0.0000	6.9091	6.9091	1.7000e-004	0.0000	6.9134
<b>Total</b>	<b>3.6900e-003</b>	<b>2.3200e-003</b>	<b>0.0265</b>	<b>8.0000e-005</b>	<b>8.3700e-003</b>	<b>6.0000e-005</b>	<b>8.4300e-003</b>	<b>2.2300e-003</b>	<b>5.0000e-005</b>	<b>2.2800e-003</b>	<b>0.0000</b>	<b>6.9091</b>	<b>6.9091</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>6.9134</b>

**3.6 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0921	0.8432	0.8836	1.4500e-003		0.0437	0.0437		0.0411	0.0411	0.0000	125.1316	125.1316	0.0300	0.0000	125.8811
<b>Total</b>	<b>0.0921</b>	<b>0.8432</b>	<b>0.8836</b>	<b>1.4500e-003</b>		<b>0.0437</b>	<b>0.0437</b>		<b>0.0411</b>	<b>0.0411</b>	<b>0.0000</b>	<b>125.1316</b>	<b>125.1316</b>	<b>0.0300</b>	<b>0.0000</b>	<b>125.8811</b>

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**3.6 Building Construction - 2022**

**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	0.1581	5.2608	1.3654	0.0131	0.3166	0.0134	0.3301	0.0915	0.0128	0.1043	0.0000	1,259.7109	1,259.7109	0.0706	0.0000	1,261.4756
Worker	0.7918	0.4978	5.6905	0.0164	1.7970	0.0122	1.8092	0.4779	0.0113	0.4892	0.0000	1,482.8817	1,482.8817	0.0363	0.0000	1,483.7887
<b>Total</b>	<b>0.9499</b>	<b>5.7586</b>	<b>7.0559</b>	<b>0.0295</b>	<b>2.1136</b>	<b>0.0257</b>	<b>2.1393</b>	<b>0.5694</b>	<b>0.0241</b>	<b>0.5936</b>	<b>0.0000</b>	<b>2,742.5926</b>	<b>2,742.5926</b>	<b>0.1069</b>	<b>0.0000</b>	<b>2,745.2643</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0921	0.8432	0.8836	1.4500e-003		0.0437	0.0437		0.0411	0.0411	0.0000	125.1315	125.1315	0.0300	0.0000	125.8809
<b>Total</b>	<b>0.0921</b>	<b>0.8432</b>	<b>0.8836</b>	<b>1.4500e-003</b>		<b>0.0437</b>	<b>0.0437</b>		<b>0.0411</b>	<b>0.0411</b>	<b>0.0000</b>	<b>125.1315</b>	<b>125.1315</b>	<b>0.0300</b>	<b>0.0000</b>	<b>125.8809</b>

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**3.6 Building Construction - 2022**

**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	0.1581	5.2608	1.3654	0.0131	0.3166	0.0134	0.3301	0.0915	0.0128	0.1043	0.0000	1,259.7109	1,259.7109	0.0706	0.0000	1,261.4756
Worker	0.7918	0.4978	5.6905	0.0164	1.7970	0.0122	1.8092	0.4779	0.0113	0.4892	0.0000	1,482.8817	1,482.8817	0.0363	0.0000	1,483.7887
<b>Total</b>	<b>0.9499</b>	<b>5.7586</b>	<b>7.0559</b>	<b>0.0295</b>	<b>2.1136</b>	<b>0.0257</b>	<b>2.1393</b>	<b>0.5694</b>	<b>0.0241</b>	<b>0.5936</b>	<b>0.0000</b>	<b>2,742.5926</b>	<b>2,742.5926</b>	<b>0.1069</b>	<b>0.0000</b>	<b>2,745.2643</b>

**3.6 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
<b>Total</b>	<b>0.2045</b>	<b>1.8700</b>	<b>2.1117</b>	<b>3.5000e-003</b>		<b>0.0910</b>	<b>0.0910</b>		<b>0.0856</b>	<b>0.0856</b>	<b>0.0000</b>	<b>301.3462</b>	<b>301.3462</b>	<b>0.0717</b>	<b>0.0000</b>	<b>303.1383</b>

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**3.6 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3009	10.7039	2.9080	0.0309	0.7622	0.0154	0.7775	0.2202	0.0147	0.2350	0.0000	2,976.5837	2,976.5837	0.1524	0.0000	2,980.3948
Worker	1.7842	1.0783	12.5816	0.0380	4.3261	0.0287	4.3548	1.1506	0.0265	1.1771	0.0000	3,435.8451	3,435.8451	0.0783	0.0000	3,437.8027
<b>Total</b>	<b>2.0850</b>	<b>11.7822</b>	<b>15.4896</b>	<b>0.0689</b>	<b>5.0882</b>	<b>0.0441</b>	<b>5.1323</b>	<b>1.3708</b>	<b>0.0412</b>	<b>1.4120</b>	<b>0.0000</b>	<b>6,412.4288</b>	<b>6,412.4288</b>	<b>0.2308</b>	<b>0.0000</b>	<b>6,418.1975</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
<b>Total</b>	<b>0.2045</b>	<b>1.8700</b>	<b>2.1117</b>	<b>3.5000e-003</b>		<b>0.0910</b>	<b>0.0910</b>		<b>0.0856</b>	<b>0.0856</b>	<b>0.0000</b>	<b>301.3458</b>	<b>301.3458</b>	<b>0.0717</b>	<b>0.0000</b>	<b>303.1380</b>

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**3.6 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3009	10.7039	2.9080	0.0309	0.7622	0.0154	0.7775	0.2202	0.0147	0.2350	0.0000	2,976.5837	2,976.5837	0.1524	0.0000	2,980.3948
Worker	1.7842	1.0783	12.5816	0.0380	4.3261	0.0287	4.3548	1.1506	0.0265	1.1771	0.0000	3,435.8451	3,435.8451	0.0783	0.0000	3,437.8027
<b>Total</b>	<b>2.0850</b>	<b>11.7822</b>	<b>15.4896</b>	<b>0.0689</b>	<b>5.0882</b>	<b>0.0441</b>	<b>5.1323</b>	<b>1.3708</b>	<b>0.0412</b>	<b>1.4120</b>	<b>0.0000</b>	<b>6,412.4288</b>	<b>6,412.4288</b>	<b>0.2308</b>	<b>0.0000</b>	<b>6,418.1975</b>

**3.6 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7223</b>	<b>303.7223</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5179</b>



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**3.6 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2889	10.5804	2.7395	0.0310	0.7679	0.0147	0.7827	0.2219	0.0141	0.2360	0.0000	2,982.0674	2,982.0674	0.1518	0.0000	2,985.8612
Worker	1.6906	0.9821	11.7410	0.0368	4.3593	0.0283	4.3877	1.1594	0.0261	1.1855	0.0000	3,327.6850	3,327.6850	0.0712	0.0000	3,329.4644
<b>Total</b>	<b>1.9795</b>	<b>11.5624</b>	<b>14.4805</b>	<b>0.0678</b>	<b>5.1273</b>	<b>0.0430</b>	<b>5.1703</b>	<b>1.3814</b>	<b>0.0402</b>	<b>1.4215</b>	<b>0.0000</b>	<b>6,309.7524</b>	<b>6,309.7524</b>	<b>0.2229</b>	<b>0.0000</b>	<b>6,315.3256</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7220</b>	<b>303.7220</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5175</b>

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**3.6 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2889	10.5804	2.7395	0.0310	0.7679	0.0147	0.7827	0.2219	0.0141	0.2360	0.0000	2,982.0674	2,982.0674	0.1518	0.0000	2,985.8612
Worker	1.6906	0.9821	11.7410	0.0368	4.3593	0.0283	4.3877	1.1594	0.0261	1.1855	0.0000	3,327.6850	3,327.6850	0.0712	0.0000	3,329.4644
<b>Total</b>	<b>1.9795</b>	<b>11.5624</b>	<b>14.4805</b>	<b>0.0678</b>	<b>5.1273</b>	<b>0.0430</b>	<b>5.1703</b>	<b>1.3814</b>	<b>0.0402</b>	<b>1.4215</b>	<b>0.0000</b>	<b>6,309.7524</b>	<b>6,309.7524</b>	<b>0.2229</b>	<b>0.0000</b>	<b>6,315.3256</b>

**3.6 Building Construction - 2025**

**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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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**3.6 Building Construction - 2025**

**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	0.2761	10.3446	2.5839	0.0307	0.7649	0.0139	0.7788	0.2210	0.0133	0.2343	0.0000	2,953.917 1	2,953.917 1	0.1494	0.0000	2,957.652 0
Worker	1.5905	0.8884	10.8340	0.0352	4.3427	0.0277	4.3704	1.1550	0.0255	1.1805	0.0000	3,182.263 1	3,182.263 1	0.0643	0.0000	3,183.869 7
<b>Total</b>	<b>1.8665</b>	<b>11.2330</b>	<b>13.4179</b>	<b>0.0659</b>	<b>5.1076</b>	<b>0.0416</b>	<b>5.1492</b>	<b>1.3761</b>	<b>0.0388</b>	<b>1.4148</b>	<b>0.0000</b>	<b>6,136.180 3</b>	<b>6,136.180 3</b>	<b>0.2137</b>	<b>0.0000</b>	<b>6,141.521 7</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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**3.6 Building Construction - 2025**

**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	0.2761	10.3446	2.5839	0.0307	0.7649	0.0139	0.7788	0.2210	0.0133	0.2343	0.0000	2,953.917 1	2,953.917 1	0.1494	0.0000	2,957.652 0
Worker	1.5905	0.8884	10.8340	0.0352	4.3427	0.0277	4.3704	1.1550	0.0255	1.1805	0.0000	3,182.263 1	3,182.263 1	0.0643	0.0000	3,183.869 7
<b>Total</b>	<b>1.8665</b>	<b>11.2330</b>	<b>13.4179</b>	<b>0.0659</b>	<b>5.1076</b>	<b>0.0416</b>	<b>5.1492</b>	<b>1.3761</b>	<b>0.0388</b>	<b>1.4148</b>	<b>0.0000</b>	<b>6,136.180 3</b>	<b>6,136.180 3</b>	<b>0.2137</b>	<b>0.0000</b>	<b>6,141.521 7</b>

**3.6 Building Construction - 2026**

**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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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**3.6 Building Construction - 2026**

**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	0.2657	10.1587	2.4657	0.0305	0.7649	0.0131	0.7780	0.2210	0.0126	0.2336	0.0000	2,937.9861	2,937.9861	0.1478	0.0000	2,941.6807
Worker	1.5077	0.8116	10.0838	0.0339	4.3427	0.0269	4.3696	1.1550	0.0247	1.1798	0.0000	3,064.0292	3,064.0292	0.0585	0.0000	3,065.4918
<b>Total</b>	<b>1.7734</b>	<b>10.9703</b>	<b>12.5495</b>	<b>0.0644</b>	<b>5.1076</b>	<b>0.0400</b>	<b>5.1476</b>	<b>1.3760</b>	<b>0.0373</b>	<b>1.4133</b>	<b>0.0000</b>	<b>6,002.0153</b>	<b>6,002.0153</b>	<b>0.2063</b>	<b>0.0000</b>	<b>6,007.1724</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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**3.6 Building Construction - 2026**

**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	0.2657	10.1587	2.4657	0.0305	0.7649	0.0131	0.7780	0.2210	0.0126	0.2336	0.0000	2,937.9861	2,937.9861	0.1478	0.0000	2,941.6807
Worker	1.5077	0.8116	10.0838	0.0339	4.3427	0.0269	4.3696	1.1550	0.0247	1.1798	0.0000	3,064.0292	3,064.0292	0.0585	0.0000	3,065.4918
<b>Total</b>	<b>1.7734</b>	<b>10.9703</b>	<b>12.5495</b>	<b>0.0644</b>	<b>5.1076</b>	<b>0.0400</b>	<b>5.1476</b>	<b>1.3760</b>	<b>0.0373</b>	<b>1.4133</b>	<b>0.0000</b>	<b>6,002.0153</b>	<b>6,002.0153</b>	<b>0.2063</b>	<b>0.0000</b>	<b>6,007.1724</b>

**3.6 Building Construction - 2027**

**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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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**3.6 Building Construction - 2027**

**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	0.2566	9.9878	2.3630	0.0303	0.7648	0.0125	0.7773	0.2210	0.0120	0.2330	0.0000	2,923.0046	2,923.0046	0.1462	0.0000	2,926.6599
Worker	1.4266	0.7426	9.4065	0.0327	4.3427	0.0256	4.3683	1.1550	0.0235	1.1785	0.0000	2,958.1876	2,958.1876	0.0533	0.0000	2,959.5202
<b>Total</b>	<b>1.6831</b>	<b>10.7304</b>	<b>11.7695</b>	<b>0.0630</b>	<b>5.1075</b>	<b>0.0381</b>	<b>5.1456</b>	<b>1.3760</b>	<b>0.0355</b>	<b>1.4115</b>	<b>0.0000</b>	<b>5,881.1922</b>	<b>5,881.1922</b>	<b>0.1995</b>	<b>0.0000</b>	<b>5,886.1801</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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**3.6 Building Construction - 2027**

**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	0.2566	9.9878	2.3630	0.0303	0.7648	0.0125	0.7773	0.2210	0.0120	0.2330	0.0000	2,923.0046	2,923.0046	0.1462	0.0000	2,926.6599
Worker	1.4266	0.7426	9.4065	0.0327	4.3427	0.0256	4.3683	1.1550	0.0235	1.1785	0.0000	2,958.1876	2,958.1876	0.0533	0.0000	2,959.5202
<b>Total</b>	<b>1.6831</b>	<b>10.7304</b>	<b>11.7695</b>	<b>0.0630</b>	<b>5.1075</b>	<b>0.0381</b>	<b>5.1456</b>	<b>1.3760</b>	<b>0.0355</b>	<b>1.4115</b>	<b>0.0000</b>	<b>5,881.1922</b>	<b>5,881.1922</b>	<b>0.1995</b>	<b>0.0000</b>	<b>5,886.1801</b>

**3.6 Building Construction - 2028**

**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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
<b>Total</b>	<b>0.1778</b>	<b>1.6211</b>	<b>2.0910</b>	<b>3.5000e-003</b>		<b>0.0686</b>	<b>0.0686</b>		<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>301.4953</b>	<b>301.4953</b>	<b>0.0709</b>	<b>0.0000</b>	<b>303.2671</b>



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**3.6 Building Construction - 2028**

**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	0.2476	9.8047	2.2675	0.0301	0.7618	0.0119	0.7737	0.2201	0.0114	0.2315	0.0000	2,899.0739	2,899.0739	0.1441	0.0000	2,902.6754
Worker	1.3374	0.6787	8.7757	0.0315	4.3261	0.0238	4.3498	1.1506	0.0219	1.1725	0.0000	2,853.2567	2,853.2567	0.0486	0.0000	2,854.4722
<b>Total</b>	<b>1.5850</b>	<b>10.4834</b>	<b>11.0431</b>	<b>0.0616</b>	<b>5.0879</b>	<b>0.0357</b>	<b>5.1236</b>	<b>1.3707</b>	<b>0.0333</b>	<b>1.4040</b>	<b>0.0000</b>	<b>5,752.3306</b>	<b>5,752.3306</b>	<b>0.1927</b>	<b>0.0000</b>	<b>5,757.1476</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
<b>Total</b>	<b>0.1778</b>	<b>1.6211</b>	<b>2.0910</b>	<b>3.5000e-003</b>		<b>0.0686</b>	<b>0.0686</b>		<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>301.4949</b>	<b>301.4949</b>	<b>0.0709</b>	<b>0.0000</b>	<b>303.2667</b>

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**3.6 Building Construction - 2028**

**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	0.2476	9.8047	2.2675	0.0301	0.7618	0.0119	0.7737	0.2201	0.0114	0.2315	0.0000	2,899.0739	2,899.0739	0.1441	0.0000	2,902.6754
Worker	1.3374	0.6787	8.7757	0.0315	4.3261	0.0238	4.3498	1.1506	0.0219	1.1725	0.0000	2,853.2567	2,853.2567	0.0486	0.0000	2,854.4722
<b>Total</b>	<b>1.5850</b>	<b>10.4834</b>	<b>11.0431</b>	<b>0.0616</b>	<b>5.0879</b>	<b>0.0357</b>	<b>5.1236</b>	<b>1.3707</b>	<b>0.0333</b>	<b>1.4040</b>	<b>0.0000</b>	<b>5,752.3306</b>	<b>5,752.3306</b>	<b>0.1927</b>	<b>0.0000</b>	<b>5,757.1476</b>

**3.6 Building Construction - 2029**

**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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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**3.6 Building Construction - 2029**

**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	0.2413	9.7039	2.2035	0.0300	0.7647	0.0114	0.7761	0.2210	0.0109	0.2318	0.0000	2,898.5911	2,898.5911	0.1430	0.0000	2,902.1667
Worker	1.2509	0.6242	8.2361	0.0307	4.3427	0.0222	4.3649	1.1550	0.0204	1.1755	0.0000	2,780.9593	2,780.9593	0.0445	0.0000	2,782.0726
<b>Total</b>	<b>1.4922</b>	<b>10.3281</b>	<b>10.4396</b>	<b>0.0608</b>	<b>5.1074</b>	<b>0.0336</b>	<b>5.1410</b>	<b>1.3760</b>	<b>0.0313</b>	<b>1.4073</b>	<b>0.0000</b>	<b>5,679.5503</b>	<b>5,679.5503</b>	<b>0.1876</b>	<b>0.0000</b>	<b>5,684.2393</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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**3.6 Building Construction - 2029**

**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	0.2413	9.7039	2.2035	0.0300	0.7647	0.0114	0.7761	0.2210	0.0109	0.2318	0.0000	2,898.5911	2,898.5911	0.1430	0.0000	2,902.1667
Worker	1.2509	0.6242	8.2361	0.0307	4.3427	0.0222	4.3649	1.1550	0.0204	1.1755	0.0000	2,780.9593	2,780.9593	0.0445	0.0000	2,782.0726
<b>Total</b>	<b>1.4922</b>	<b>10.3281</b>	<b>10.4396</b>	<b>0.0608</b>	<b>5.1074</b>	<b>0.0336</b>	<b>5.1410</b>	<b>1.3760</b>	<b>0.0313</b>	<b>1.4073</b>	<b>0.0000</b>	<b>5,679.5503</b>	<b>5,679.5503</b>	<b>0.1876</b>	<b>0.0000</b>	<b>5,684.2393</b>

**3.6 Building Construction - 2030**

**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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
<b>Total</b>	<b>0.1708</b>	<b>1.0355</b>	<b>2.1085</b>	<b>4.0400e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>343.0336</b>	<b>343.0336</b>	<b>0.0138</b>	<b>0.0000</b>	<b>343.3777</b>

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**3.6 Building Construction - 2030**

**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	0.2347	9.5743	2.1437	0.0299	0.7647	0.0108	0.7755	0.2209	0.0103	0.2313	0.0000	2,888.204 2	2,888.204 2	0.1414	0.0000	2,891.738 5
Worker	1.1623	0.5727	7.7201	0.0299	4.3427	0.0207	4.3634	1.1550	0.0190	1.1741	0.0000	2,707.602 6	2,707.602 6	0.0407	0.0000	2,708.620 7
<b>Total</b>	<b>1.3970</b>	<b>10.1469</b>	<b>9.8638</b>	<b>0.0598</b>	<b>5.1074</b>	<b>0.0315</b>	<b>5.1389</b>	<b>1.3760</b>	<b>0.0294</b>	<b>1.4053</b>	<b>0.0000</b>	<b>5,595.806 8</b>	<b>5,595.806 8</b>	<b>0.1821</b>	<b>0.0000</b>	<b>5,600.359 1</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
<b>Total</b>	<b>0.1708</b>	<b>1.0355</b>	<b>2.1085</b>	<b>4.0400e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>343.0332</b>	<b>343.0332</b>	<b>0.0138</b>	<b>0.0000</b>	<b>343.3773</b>

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**3.6 Building Construction - 2030**

**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	0.2347	9.5743	2.1437	0.0299	0.7647	0.0108	0.7755	0.2209	0.0103	0.2313	0.0000	2,888.204 2	2,888.204 2	0.1414	0.0000	2,891.738 5
Worker	1.1623	0.5727	7.7201	0.0299	4.3427	0.0207	4.3634	1.1550	0.0190	1.1741	0.0000	2,707.602 6	2,707.602 6	0.0407	0.0000	2,708.620 7
<b>Total</b>	<b>1.3970</b>	<b>10.1469</b>	<b>9.8638</b>	<b>0.0598</b>	<b>5.1074</b>	<b>0.0315</b>	<b>5.1389</b>	<b>1.3760</b>	<b>0.0294</b>	<b>1.4053</b>	<b>0.0000</b>	<b>5,595.806 8</b>	<b>5,595.806 8</b>	<b>0.1821</b>	<b>0.0000</b>	<b>5,600.359 1</b>

**3.6 Building Construction - 2031**

**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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
<b>Total</b>	<b>0.1708</b>	<b>1.0355</b>	<b>2.1085</b>	<b>4.0400e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>343.0336</b>	<b>343.0336</b>	<b>0.0138</b>	<b>0.0000</b>	<b>343.3777</b>

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**3.6 Building Construction - 2031**

**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	0.2292	9.4567	2.0946	0.0298	0.7647	0.0103	0.7749	0.2209	9.8200e-003	0.2308	0.0000	2,879.3719	2,879.3719	0.1399	0.0000	2,882.8705
Worker	1.0685	0.5240	7.2278	0.0292	4.3427	0.0193	4.3620	1.1550	0.0177	1.1727	0.0000	2,643.2510	2,643.2510	0.0372	0.0000	2,644.1797
<b>Total</b>	<b>1.2976</b>	<b>9.9807</b>	<b>9.3224</b>	<b>0.0590</b>	<b>5.1074</b>	<b>0.0295</b>	<b>5.1369</b>	<b>1.3760</b>	<b>0.0275</b>	<b>1.4035</b>	<b>0.0000</b>	<b>5,522.6229</b>	<b>5,522.6229</b>	<b>0.1771</b>	<b>0.0000</b>	<b>5,527.0503</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
<b>Total</b>	<b>0.1708</b>	<b>1.0355</b>	<b>2.1085</b>	<b>4.0400e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>343.0332</b>	<b>343.0332</b>	<b>0.0138</b>	<b>0.0000</b>	<b>343.3773</b>

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**3.6 Building Construction - 2031**

**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	0.2292	9.4567	2.0946	0.0298	0.7647	0.0103	0.7749	0.2209	9.8200e-003	0.2308	0.0000	2,879.3719	2,879.3719	0.1399	0.0000	2,882.8705
Worker	1.0685	0.5240	7.2278	0.0292	4.3427	0.0193	4.3620	1.1550	0.0177	1.1727	0.0000	2,643.2510	2,643.2510	0.0372	0.0000	2,644.1797
<b>Total</b>	<b>1.2976</b>	<b>9.9807</b>	<b>9.3224</b>	<b>0.0590</b>	<b>5.1074</b>	<b>0.0295</b>	<b>5.1369</b>	<b>1.3760</b>	<b>0.0275</b>	<b>1.4035</b>	<b>0.0000</b>	<b>5,522.6229</b>	<b>5,522.6229</b>	<b>0.1771</b>	<b>0.0000</b>	<b>5,527.0503</b>

**3.6 Building Construction - 2032**

**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	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
<b>Total</b>	<b>0.1715</b>	<b>1.0394</b>	<b>2.1166</b>	<b>4.0600e-003</b>		<b>0.0194</b>	<b>0.0194</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>344.3479</b>	<b>344.3479</b>	<b>0.0138</b>	<b>0.0000</b>	<b>344.6933</b>



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**3.6 Building Construction - 2032**

**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	0.2254	9.3833	2.0636	0.0299	0.7676	9.9000e-003	0.7775	0.2218	9.4600e-003	0.2312	0.0000	2,883.1632	2,883.1632	0.1392	0.0000	2,886.6436
Worker	0.9884	0.4839	6.8202	0.0287	4.3593	0.0180	4.3773	1.1594	0.0165	1.1760	0.0000	2,597.1336	2,597.1336	0.0342	0.0000	2,597.9879
<b>Total</b>	<b>1.2138</b>	<b>9.8671</b>	<b>8.8838</b>	<b>0.0586</b>	<b>5.1269</b>	<b>0.0279</b>	<b>5.1548</b>	<b>1.3812</b>	<b>0.0260</b>	<b>1.4072</b>	<b>0.0000</b>	<b>5,480.2968</b>	<b>5,480.2968</b>	<b>0.1734</b>	<b>0.0000</b>	<b>5,484.6315</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
<b>Total</b>	<b>0.1715</b>	<b>1.0394</b>	<b>2.1166</b>	<b>4.0600e-003</b>		<b>0.0194</b>	<b>0.0194</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>344.3475</b>	<b>344.3475</b>	<b>0.0138</b>	<b>0.0000</b>	<b>344.6929</b>

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**3.6 Building Construction - 2032**

**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	0.2254	9.3833	2.0636	0.0299	0.7676	9.9000e-003	0.7775	0.2218	9.4600e-003	0.2312	0.0000	2,883.1632	2,883.1632	0.1392	0.0000	2,886.6436
Worker	0.9884	0.4839	6.8202	0.0287	4.3593	0.0180	4.3773	1.1594	0.0165	1.1760	0.0000	2,597.1336	2,597.1336	0.0342	0.0000	2,597.9879
<b>Total</b>	<b>1.2138</b>	<b>9.8671</b>	<b>8.8838</b>	<b>0.0586</b>	<b>5.1269</b>	<b>0.0279</b>	<b>5.1548</b>	<b>1.3812</b>	<b>0.0260</b>	<b>1.4072</b>	<b>0.0000</b>	<b>5,480.2968</b>	<b>5,480.2968</b>	<b>0.1734</b>	<b>0.0000</b>	<b>5,484.6315</b>

**3.6 Building Construction - 2033**

**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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
<b>Total</b>	<b>0.1702</b>	<b>1.0315</b>	<b>2.1004</b>	<b>4.0200e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>341.7193</b>	<b>341.7193</b>	<b>0.0137</b>	<b>0.0000</b>	<b>342.0621</b>

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**3.6 Building Construction - 2033**

**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	0.2198	9.2150	2.0150	0.0296	0.7617	9.4800e-003	0.7712	0.2201	9.0600e-003	0.2291	0.0000	2,854.8748	2,854.8748	0.1371	0.0000	2,858.3010
Worker	0.9127	0.4460	6.4043	0.0279	4.3261	0.0166	4.3427	1.1506	0.0153	1.1659	0.0000	2,529.1920	2,529.1920	0.0313	0.0000	2,529.9751
<b>Total</b>	<b>1.1325</b>	<b>9.6609</b>	<b>8.4192</b>	<b>0.0575</b>	<b>5.0878</b>	<b>0.0261</b>	<b>5.1139</b>	<b>1.3707</b>	<b>0.0244</b>	<b>1.3950</b>	<b>0.0000</b>	<b>5,384.0668</b>	<b>5,384.0668</b>	<b>0.1684</b>	<b>0.0000</b>	<b>5,388.2761</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
<b>Total</b>	<b>0.1702</b>	<b>1.0315</b>	<b>2.1004</b>	<b>4.0200e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>341.7189</b>	<b>341.7189</b>	<b>0.0137</b>	<b>0.0000</b>	<b>342.0617</b>

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**3.6 Building Construction - 2033**

**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	0.2198	9.2150	2.0150	0.0296	0.7617	9.4800e-003	0.7712	0.2201	9.0600e-003	0.2291	0.0000	2,854.8748	2,854.8748	0.1371	0.0000	2,858.3010
Worker	0.9127	0.4460	6.4043	0.0279	4.3261	0.0166	4.3427	1.1506	0.0153	1.1659	0.0000	2,529.1920	2,529.1920	0.0313	0.0000	2,529.9751
<b>Total</b>	<b>1.1325</b>	<b>9.6609</b>	<b>8.4192</b>	<b>0.0575</b>	<b>5.0878</b>	<b>0.0261</b>	<b>5.1139</b>	<b>1.3707</b>	<b>0.0244</b>	<b>1.3950</b>	<b>0.0000</b>	<b>5,384.0668</b>	<b>5,384.0668</b>	<b>0.1684</b>	<b>0.0000</b>	<b>5,388.2761</b>

**3.6 Building Construction - 2034**

**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	0.1610	0.9760	1.9873	3.8100e-003		0.0182	0.0182		0.0182	0.0182	0.0000	323.3191	323.3191	0.0130	0.0000	323.6433
<b>Total</b>	<b>0.1610</b>	<b>0.9760</b>	<b>1.9873</b>	<b>3.8100e-003</b>		<b>0.0182</b>	<b>0.0182</b>		<b>0.0182</b>	<b>0.0182</b>	<b>0.0000</b>	<b>323.3191</b>	<b>323.3191</b>	<b>0.0130</b>	<b>0.0000</b>	<b>323.6433</b>

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**3.6 Building Construction - 2034**

**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	0.2046	8.6340	1.8781	0.0279	0.7207	8.6400e-003	0.7293	0.2082	8.2600e-003	0.2165	0.0000	2,696.1688	2,696.1688	0.1287	0.0000	2,699.3860
Worker	0.8067	0.3943	5.7338	0.0260	4.0931	0.0147	4.1078	1.0886	0.0135	1.1021	0.0000	2,353.6752	2,353.6752	0.0274	0.0000	2,354.3591
<b>Total</b>	<b>1.0113</b>	<b>9.0283</b>	<b>7.6119</b>	<b>0.0539</b>	<b>4.8138</b>	<b>0.0233</b>	<b>4.8371</b>	<b>1.2969</b>	<b>0.0218</b>	<b>1.3186</b>	<b>0.0000</b>	<b>5,049.8440</b>	<b>5,049.8440</b>	<b>0.1561</b>	<b>0.0000</b>	<b>5,053.7451</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1610	0.9760	1.9873	3.8100e-003		0.0182	0.0182		0.0182	0.0182	0.0000	323.3187	323.3187	0.0130	0.0000	323.6429
<b>Total</b>	<b>0.1610</b>	<b>0.9760</b>	<b>1.9873</b>	<b>3.8100e-003</b>		<b>0.0182</b>	<b>0.0182</b>		<b>0.0182</b>	<b>0.0182</b>	<b>0.0000</b>	<b>323.3187</b>	<b>323.3187</b>	<b>0.0130</b>	<b>0.0000</b>	<b>323.6429</b>

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**3.6 Building Construction - 2034**

**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	0.2046	8.6340	1.8781	0.0279	0.7207	8.6400e-003	0.7293	0.2082	8.2600e-003	0.2165	0.0000	2,696.1688	2,696.1688	0.1287	0.0000	2,699.3860
Worker	0.8067	0.3943	5.7338	0.0260	4.0931	0.0147	4.1078	1.0886	0.0135	1.1021	0.0000	2,353.6752	2,353.6752	0.0274	0.0000	2,354.3591
<b>Total</b>	<b>1.0113</b>	<b>9.0283</b>	<b>7.6119</b>	<b>0.0539</b>	<b>4.8138</b>	<b>0.0233</b>	<b>4.8371</b>	<b>1.2969</b>	<b>0.0218</b>	<b>1.3186</b>	<b>0.0000</b>	<b>5,049.8440</b>	<b>5,049.8440</b>	<b>0.1561</b>	<b>0.0000</b>	<b>5,053.7451</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.0611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.0669	0.0862	1.4000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003	0.0000	12.1280	12.1280	7.9000e-004	0.0000	12.1477
<b>Total</b>	<b>2.0708</b>	<b>0.0669</b>	<b>0.0862</b>	<b>1.4000e-004</b>		<b>3.8800e-003</b>	<b>3.8800e-003</b>		<b>3.8800e-003</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>12.1280</b>	<b>12.1280</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>12.1477</b>

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**3.7 Architectural Coating - 2022**

**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	0.1393	0.0876	1.0009	2.8900e-003	0.3161	2.1500e-003	0.3182	0.0841	1.9800e-003	0.0861	0.0000	260.8198	260.8198	6.3800e-003	0.0000	260.9793
<b>Total</b>	<b>0.1393</b>	<b>0.0876</b>	<b>1.0009</b>	<b>2.8900e-003</b>	<b>0.3161</b>	<b>2.1500e-003</b>	<b>0.3182</b>	<b>0.0841</b>	<b>1.9800e-003</b>	<b>0.0861</b>	<b>0.0000</b>	<b>260.8198</b>	<b>260.8198</b>	<b>6.3800e-003</b>	<b>0.0000</b>	<b>260.9793</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.0611					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.0669	0.0862	1.4000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003	0.0000	12.1279	12.1279	7.9000e-004	0.0000	12.1477
<b>Total</b>	<b>2.0708</b>	<b>0.0669</b>	<b>0.0862</b>	<b>1.4000e-004</b>		<b>3.8800e-003</b>	<b>3.8800e-003</b>		<b>3.8800e-003</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>12.1279</b>	<b>12.1279</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>12.1477</b>

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**3.7 Architectural Coating - 2022**

**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	0.1393	0.0876	1.0009	2.8900e-003	0.3161	2.1500e-003	0.3182	0.0841	1.9800e-003	0.0861	0.0000	260.8198	260.8198	6.3800e-003	0.0000	260.9793
<b>Total</b>	<b>0.1393</b>	<b>0.0876</b>	<b>1.0009</b>	<b>2.8900e-003</b>	<b>0.3161</b>	<b>2.1500e-003</b>	<b>0.3182</b>	<b>0.0841</b>	<b>1.9800e-003</b>	<b>0.0861</b>	<b>0.0000</b>	<b>260.8198</b>	<b>260.8198</b>	<b>6.3800e-003</b>	<b>0.0000</b>	<b>260.9793</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6408					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2355	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
<b>Total</b>	<b>5.6657</b>	<b>0.1694</b>	<b>0.2355</b>	<b>3.9000e-004</b>		<b>9.2100e-003</b>	<b>9.2100e-003</b>		<b>9.2100e-003</b>	<b>9.2100e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.9900e-003</b>	<b>0.0000</b>	<b>33.2419</b>



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**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3568	0.2156	2.5158	7.6000e-003	0.8650	5.7500e-003	0.8708	0.2301	5.2900e-003	0.2354	0.0000	687.0174	687.0174	0.0157	0.0000	687.4088
<b>Total</b>	<b>0.3568</b>	<b>0.2156</b>	<b>2.5158</b>	<b>7.6000e-003</b>	<b>0.8650</b>	<b>5.7500e-003</b>	<b>0.8708</b>	<b>0.2301</b>	<b>5.2900e-003</b>	<b>0.2354</b>	<b>0.0000</b>	<b>687.0174</b>	<b>687.0174</b>	<b>0.0157</b>	<b>0.0000</b>	<b>687.4088</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6408					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2354	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
<b>Total</b>	<b>5.6657</b>	<b>0.1694</b>	<b>0.2354</b>	<b>3.9000e-004</b>		<b>9.2100e-003</b>	<b>9.2100e-003</b>		<b>9.2100e-003</b>	<b>9.2100e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.9900e-003</b>	<b>0.0000</b>	<b>33.2419</b>

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**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3568	0.2156	2.5158	7.6000e-003	0.8650	5.7500e-003	0.8708	0.2301	5.2900e-003	0.2354	0.0000	687.0174	687.0174	0.0157	0.0000	687.4088
<b>Total</b>	<b>0.3568</b>	<b>0.2156</b>	<b>2.5158</b>	<b>7.6000e-003</b>	<b>0.8650</b>	<b>5.7500e-003</b>	<b>0.8708</b>	<b>0.2301</b>	<b>5.2900e-003</b>	<b>0.2354</b>	<b>0.0000</b>	<b>687.0174</b>	<b>687.0174</b>	<b>0.0157</b>	<b>0.0000</b>	<b>687.4088</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
<b>Total</b>	<b>5.7079</b>	<b>0.1597</b>	<b>0.2371</b>	<b>3.9000e-004</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>33.4947</b>

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**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3380	0.1964	2.3477	7.3600e-003	0.8717	5.6600e-003	0.8773	0.2318	5.2200e-003	0.2371	0.0000	665.3901	665.3901	0.0142	0.0000	665.7459
<b>Total</b>	<b>0.3380</b>	<b>0.1964</b>	<b>2.3477</b>	<b>7.3600e-003</b>	<b>0.8717</b>	<b>5.6600e-003</b>	<b>0.8773</b>	<b>0.2318</b>	<b>5.2200e-003</b>	<b>0.2371</b>	<b>0.0000</b>	<b>665.3901</b>	<b>665.3901</b>	<b>0.0142</b>	<b>0.0000</b>	<b>665.7459</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
<b>Total</b>	<b>5.7079</b>	<b>0.1597</b>	<b>0.2371</b>	<b>3.9000e-004</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>33.4947</b>

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**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3380	0.1964	2.3477	7.3600e-003	0.8717	5.6600e-003	0.8773	0.2318	5.2200e-003	0.2371	0.0000	665.3901	665.3901	0.0142	0.0000	665.7459
<b>Total</b>	<b>0.3380</b>	<b>0.1964</b>	<b>2.3477</b>	<b>7.3600e-003</b>	<b>0.8717</b>	<b>5.6600e-003</b>	<b>0.8773</b>	<b>0.2318</b>	<b>5.2200e-003</b>	<b>0.2371</b>	<b>0.0000</b>	<b>665.3901</b>	<b>665.3901</b>	<b>0.0142</b>	<b>0.0000</b>	<b>665.7459</b>

**3.7 Architectural Coating - 2025**

**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	5.6625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.6848</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

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**3.7 Architectural Coating - 2025**

**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	0.3180	0.1776	2.1663	7.0400e-003	0.8684	5.5400e-003	0.8739	0.2310	5.1000e-003	0.2361	0.0000	636.3122	636.3122	0.0129	0.0000	636.6334
<b>Total</b>	<b>0.3180</b>	<b>0.1776</b>	<b>2.1663</b>	<b>7.0400e-003</b>	<b>0.8684</b>	<b>5.5400e-003</b>	<b>0.8739</b>	<b>0.2310</b>	<b>5.1000e-003</b>	<b>0.2361</b>	<b>0.0000</b>	<b>636.3122</b>	<b>636.3122</b>	<b>0.0129</b>	<b>0.0000</b>	<b>636.6334</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.6848</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

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**3.7 Architectural Coating - 2025**

**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	0.3180	0.1776	2.1663	7.0400e-003	0.8684	5.5400e-003	0.8739	0.2310	5.1000e-003	0.2361	0.0000	636.3122	636.3122	0.0129	0.0000	636.6334
<b>Total</b>	<b>0.3180</b>	<b>0.1776</b>	<b>2.1663</b>	<b>7.0400e-003</b>	<b>0.8684</b>	<b>5.5400e-003</b>	<b>0.8739</b>	<b>0.2310</b>	<b>5.1000e-003</b>	<b>0.2361</b>	<b>0.0000</b>	<b>636.3122</b>	<b>636.3122</b>	<b>0.0129</b>	<b>0.0000</b>	<b>636.6334</b>

**3.7 Architectural Coating - 2026**

**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	5.6625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.6848</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

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**3.7 Architectural Coating - 2026**

**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	0.3015	0.1623	2.0163	6.7700e-003	0.8684	5.3700e-003	0.8737	0.2310	4.9500e-003	0.2359	0.0000	612.6706	612.6706	0.0117	0.0000	612.9630
<b>Total</b>	<b>0.3015</b>	<b>0.1623</b>	<b>2.0163</b>	<b>6.7700e-003</b>	<b>0.8684</b>	<b>5.3700e-003</b>	<b>0.8737</b>	<b>0.2310</b>	<b>4.9500e-003</b>	<b>0.2359</b>	<b>0.0000</b>	<b>612.6706</b>	<b>612.6706</b>	<b>0.0117</b>	<b>0.0000</b>	<b>612.9630</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.6848</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

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**3.7 Architectural Coating - 2026**

**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	0.3015	0.1623	2.0163	6.7700e-003	0.8684	5.3700e-003	0.8737	0.2310	4.9500e-003	0.2359	0.0000	612.6706	612.6706	0.0117	0.0000	612.9630
<b>Total</b>	<b>0.3015</b>	<b>0.1623</b>	<b>2.0163</b>	<b>6.7700e-003</b>	<b>0.8684</b>	<b>5.3700e-003</b>	<b>0.8737</b>	<b>0.2310</b>	<b>4.9500e-003</b>	<b>0.2359</b>	<b>0.0000</b>	<b>612.6706</b>	<b>612.6706</b>	<b>0.0117</b>	<b>0.0000</b>	<b>612.9630</b>

**3.7 Architectural Coating - 2027**

**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	5.6625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.6848</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>



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**3.7 Architectural Coating - 2027**

**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	0.2853	0.1485	1.8809	6.5400e-003	0.8684	5.1100e-003	0.8735	0.2310	4.7000e-003	0.2357	0.0000	591.5070	591.5070	0.0107	0.0000	591.7734
<b>Total</b>	<b>0.2853</b>	<b>0.1485</b>	<b>1.8809</b>	<b>6.5400e-003</b>	<b>0.8684</b>	<b>5.1100e-003</b>	<b>0.8735</b>	<b>0.2310</b>	<b>4.7000e-003</b>	<b>0.2357</b>	<b>0.0000</b>	<b>591.5070</b>	<b>591.5070</b>	<b>0.0107</b>	<b>0.0000</b>	<b>591.7734</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.6848</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

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**3.7 Architectural Coating - 2027**

**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	0.2853	0.1485	1.8809	6.5400e-003	0.8684	5.1100e-003	0.8735	0.2310	4.7000e-003	0.2357	0.0000	591.5070	591.5070	0.0107	0.0000	591.7734
<b>Total</b>	<b>0.2853</b>	<b>0.1485</b>	<b>1.8809</b>	<b>6.5400e-003</b>	<b>0.8684</b>	<b>5.1100e-003</b>	<b>0.8735</b>	<b>0.2310</b>	<b>4.7000e-003</b>	<b>0.2357</b>	<b>0.0000</b>	<b>591.5070</b>	<b>591.5070</b>	<b>0.0107</b>	<b>0.0000</b>	<b>591.7734</b>

**3.7 Architectural Coating - 2028**

**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	5.6408					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376
<b>Total</b>	<b>5.6630</b>	<b>0.1489</b>	<b>0.2352</b>	<b>3.9000e-004</b>		<b>6.7000e-003</b>	<b>6.7000e-003</b>		<b>6.7000e-003</b>	<b>6.7000e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.8100e-003</b>	<b>0.0000</b>	<b>33.2376</b>

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**3.7 Architectural Coating - 2028**

**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	0.2674	0.1357	1.7547	6.3000e-003	0.8650	4.7500e-003	0.8698	0.2301	4.3700e-003	0.2344	0.0000	570.5254	570.5254	9.7200e-003	0.0000	570.7685
<b>Total</b>	<b>0.2674</b>	<b>0.1357</b>	<b>1.7547</b>	<b>6.3000e-003</b>	<b>0.8650</b>	<b>4.7500e-003</b>	<b>0.8698</b>	<b>0.2301</b>	<b>4.3700e-003</b>	<b>0.2344</b>	<b>0.0000</b>	<b>570.5254</b>	<b>570.5254</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>570.7685</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6408					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375
<b>Total</b>	<b>5.6630</b>	<b>0.1489</b>	<b>0.2352</b>	<b>3.9000e-004</b>		<b>6.7000e-003</b>	<b>6.7000e-003</b>		<b>6.7000e-003</b>	<b>6.7000e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.8100e-003</b>	<b>0.0000</b>	<b>33.2375</b>

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**3.7 Architectural Coating - 2028**

**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	0.2674	0.1357	1.7547	6.3000e-003	0.8650	4.7500e-003	0.8698	0.2301	4.3700e-003	0.2344	0.0000	570.5254	570.5254	9.7200e-003	0.0000	570.7685
<b>Total</b>	<b>0.2674</b>	<b>0.1357</b>	<b>1.7547</b>	<b>6.3000e-003</b>	<b>0.8650</b>	<b>4.7500e-003</b>	<b>0.8698</b>	<b>0.2301</b>	<b>4.3700e-003</b>	<b>0.2344</b>	<b>0.0000</b>	<b>570.5254</b>	<b>570.5254</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>570.7685</b>

**3.7 Architectural Coating - 2029**

**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	5.6625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.6848</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

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**3.7 Architectural Coating - 2029**

**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	0.2501	0.1248	1.6469	6.1400e-003	0.8684	4.4400e-003	0.8728	0.2310	4.0900e-003	0.2350	0.0000	556.0691	556.0691	8.9000e-003	0.0000	556.2917
<b>Total</b>	<b>0.2501</b>	<b>0.1248</b>	<b>1.6469</b>	<b>6.1400e-003</b>	<b>0.8684</b>	<b>4.4400e-003</b>	<b>0.8728</b>	<b>0.2310</b>	<b>4.0900e-003</b>	<b>0.2350</b>	<b>0.0000</b>	<b>556.0691</b>	<b>556.0691</b>	<b>8.9000e-003</b>	<b>0.0000</b>	<b>556.2917</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.6848</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

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**3.7 Architectural Coating - 2029**

**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	0.2501	0.1248	1.6469	6.1400e-003	0.8684	4.4400e-003	0.8728	0.2310	4.0900e-003	0.2350	0.0000	556.0691	556.0691	8.9000e-003	0.0000	556.2917
<b>Total</b>	<b>0.2501</b>	<b>0.1248</b>	<b>1.6469</b>	<b>6.1400e-003</b>	<b>0.8684</b>	<b>4.4400e-003</b>	<b>0.8728</b>	<b>0.2310</b>	<b>4.0900e-003</b>	<b>0.2350</b>	<b>0.0000</b>	<b>556.0691</b>	<b>556.0691</b>	<b>8.9000e-003</b>	<b>0.0000</b>	<b>556.2917</b>

**3.7 Architectural Coating - 2030**

**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	5.6625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537
<b>Total</b>	<b>5.6796</b>	<b>0.1117</b>	<b>0.2346</b>	<b>3.9000e-004</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.3537</b>

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**3.7 Architectural Coating - 2030**

**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	0.2324	0.1145	1.5437	5.9800e-003	0.8684	4.1400e-003	0.8725	0.2310	3.8100e-003	0.2348	0.0000	541.4010	541.4010	8.1400e-003	0.0000	541.6046
<b>Total</b>	<b>0.2324</b>	<b>0.1145</b>	<b>1.5437</b>	<b>5.9800e-003</b>	<b>0.8684</b>	<b>4.1400e-003</b>	<b>0.8725</b>	<b>0.2310</b>	<b>3.8100e-003</b>	<b>0.2348</b>	<b>0.0000</b>	<b>541.4010</b>	<b>541.4010</b>	<b>8.1400e-003</b>	<b>0.0000</b>	<b>541.6046</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536
<b>Total</b>	<b>5.6796</b>	<b>0.1117</b>	<b>0.2346</b>	<b>3.9000e-004</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.3536</b>

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**3.7 Architectural Coating - 2030**

**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	0.2324	0.1145	1.5437	5.9800e-003	0.8684	4.1400e-003	0.8725	0.2310	3.8100e-003	0.2348	0.0000	541.4010	541.4010	8.1400e-003	0.0000	541.6046
<b>Total</b>	<b>0.2324</b>	<b>0.1145</b>	<b>1.5437</b>	<b>5.9800e-003</b>	<b>0.8684</b>	<b>4.1400e-003</b>	<b>0.8725</b>	<b>0.2310</b>	<b>3.8100e-003</b>	<b>0.2348</b>	<b>0.0000</b>	<b>541.4010</b>	<b>541.4010</b>	<b>8.1400e-003</b>	<b>0.0000</b>	<b>541.6046</b>

**3.7 Architectural Coating - 2031**

**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	5.6625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537
<b>Total</b>	<b>5.6796</b>	<b>0.1117</b>	<b>0.2346</b>	<b>3.9000e-004</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.3537</b>



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**3.7 Architectural Coating - 2031**

**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	0.2136	0.1048	1.4452	5.8400e-003	0.8684	3.8500e-003	0.8722	0.2310	3.5400e-003	0.2345	0.0000	528.5335	528.5335	7.4300e-003	0.0000	528.7192
<b>Total</b>	<b>0.2136</b>	<b>0.1048</b>	<b>1.4452</b>	<b>5.8400e-003</b>	<b>0.8684</b>	<b>3.8500e-003</b>	<b>0.8722</b>	<b>0.2310</b>	<b>3.5400e-003</b>	<b>0.2345</b>	<b>0.0000</b>	<b>528.5335</b>	<b>528.5335</b>	<b>7.4300e-003</b>	<b>0.0000</b>	<b>528.7192</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536
<b>Total</b>	<b>5.6796</b>	<b>0.1117</b>	<b>0.2346</b>	<b>3.9000e-004</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.3536</b>

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**3.7 Architectural Coating - 2031**

**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	0.2136	0.1048	1.4452	5.8400e-003	0.8684	3.8500e-003	0.8722	0.2310	3.5400e-003	0.2345	0.0000	528.5335	528.5335	7.4300e-003	0.0000	528.7192
<b>Total</b>	<b>0.2136</b>	<b>0.1048</b>	<b>1.4452</b>	<b>5.8400e-003</b>	<b>0.8684</b>	<b>3.8500e-003</b>	<b>0.8722</b>	<b>0.2310</b>	<b>3.5400e-003</b>	<b>0.2345</b>	<b>0.0000</b>	<b>528.5335</b>	<b>528.5335</b>	<b>7.4300e-003</b>	<b>0.0000</b>	<b>528.7192</b>

**3.7 Architectural Coating - 2032**

**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	5.6842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4815
<b>Total</b>	<b>5.7013</b>	<b>0.1122</b>	<b>0.2355</b>	<b>3.9000e-004</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.4815</b>

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**3.7 Architectural Coating - 2032**

**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	0.1976	0.0968	1.3637	5.7300e-003	0.8717	3.5900e-003	0.8753	0.2318	3.3100e-003	0.2351	0.0000	519.3121	519.3121	6.8300e-003	0.0000	519.4829
<b>Total</b>	<b>0.1976</b>	<b>0.0968</b>	<b>1.3637</b>	<b>5.7300e-003</b>	<b>0.8717</b>	<b>3.5900e-003</b>	<b>0.8753</b>	<b>0.2318</b>	<b>3.3100e-003</b>	<b>0.2351</b>	<b>0.0000</b>	<b>519.3121</b>	<b>519.3121</b>	<b>6.8300e-003</b>	<b>0.0000</b>	<b>519.4829</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4814
<b>Total</b>	<b>5.7013</b>	<b>0.1122</b>	<b>0.2355</b>	<b>3.9000e-004</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.4814</b>

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**3.7 Architectural Coating - 2032**

**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	0.1976	0.0968	1.3637	5.7300e-003	0.8717	3.5900e-003	0.8753	0.2318	3.3100e-003	0.2351	0.0000	519.3121	519.3121	6.8300e-003	0.0000	519.4829
<b>Total</b>	<b>0.1976</b>	<b>0.0968</b>	<b>1.3637</b>	<b>5.7300e-003</b>	<b>0.8717</b>	<b>3.5900e-003</b>	<b>0.8753</b>	<b>0.2318</b>	<b>3.3100e-003</b>	<b>0.2351</b>	<b>0.0000</b>	<b>519.3121</b>	<b>519.3121</b>	<b>6.8300e-003</b>	<b>0.0000</b>	<b>519.4829</b>

**3.7 Architectural Coating - 2033**

**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	5.6408					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2259
<b>Total</b>	<b>5.6578</b>	<b>0.1113</b>	<b>0.2337</b>	<b>3.9000e-004</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>33.2259</b>

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**3.7 Architectural Coating - 2033**

**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	0.1825	0.0892	1.2806	5.5800e-003	0.8650	3.3300e-003	0.8684	0.2301	3.0600e-003	0.2331	0.0000	505.7268	505.7268	6.2600e-003	0.0000	505.8834
<b>Total</b>	<b>0.1825</b>	<b>0.0892</b>	<b>1.2806</b>	<b>5.5800e-003</b>	<b>0.8650</b>	<b>3.3300e-003</b>	<b>0.8684</b>	<b>0.2301</b>	<b>3.0600e-003</b>	<b>0.2331</b>	<b>0.0000</b>	<b>505.7268</b>	<b>505.7268</b>	<b>6.2600e-003</b>	<b>0.0000</b>	<b>505.8834</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6408					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2258
<b>Total</b>	<b>5.6578</b>	<b>0.1113</b>	<b>0.2337</b>	<b>3.9000e-004</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>33.2258</b>

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**3.7 Architectural Coating - 2033**

**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	0.1825	0.0892	1.2806	5.5800e-003	0.8650	3.3300e-003	0.8684	0.2301	3.0600e-003	0.2331	0.0000	505.7268	505.7268	6.2600e-003	0.0000	505.8834
<b>Total</b>	<b>0.1825</b>	<b>0.0892</b>	<b>1.2806</b>	<b>5.5800e-003</b>	<b>0.8650</b>	<b>3.3300e-003</b>	<b>0.8684</b>	<b>0.2301</b>	<b>3.0600e-003</b>	<b>0.2331</b>	<b>0.0000</b>	<b>505.7268</b>	<b>505.7268</b>	<b>6.2600e-003</b>	<b>0.0000</b>	<b>505.8834</b>

**3.7 Architectural Coating - 2034**

**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	5.6191					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1109	0.2328	3.8000e-004		2.6300e-003	2.6300e-003		2.6300e-003	2.6300e-003	0.0000	33.0646	33.0646	1.3400e-003	0.0000	33.0981
<b>Total</b>	<b>5.6360</b>	<b>0.1109</b>	<b>0.2328</b>	<b>3.8000e-004</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>	<b>0.0000</b>	<b>33.0646</b>	<b>33.0646</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>33.0981</b>

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**3.7 Architectural Coating - 2034**

**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	0.1698	0.0830	1.2071	5.4700e-003	0.8617	3.0900e-003	0.8648	0.2292	2.8400e-003	0.2320	0.0000	495.5019	495.5019	5.7600e-003	0.0000	495.6459
<b>Total</b>	<b>0.1698</b>	<b>0.0830</b>	<b>1.2071</b>	<b>5.4700e-003</b>	<b>0.8617</b>	<b>3.0900e-003</b>	<b>0.8648</b>	<b>0.2292</b>	<b>2.8400e-003</b>	<b>0.2320</b>	<b>0.0000</b>	<b>495.5019</b>	<b>495.5019</b>	<b>5.7600e-003</b>	<b>0.0000</b>	<b>495.6459</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6191					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1109	0.2328	3.8000e-004		2.6300e-003	2.6300e-003		2.6300e-003	2.6300e-003	0.0000	33.0646	33.0646	1.3400e-003	0.0000	33.0981
<b>Total</b>	<b>5.6360</b>	<b>0.1109</b>	<b>0.2328</b>	<b>3.8000e-004</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>	<b>0.0000</b>	<b>33.0646</b>	<b>33.0646</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>33.0981</b>

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**3.7 Architectural Coating - 2034**

**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	0.1698	0.0830	1.2071	5.4700e-003	0.8617	3.0900e-003	0.8648	0.2292	2.8400e-003	0.2320	0.0000	495.5019	495.5019	5.7600e-003	0.0000	495.6459
<b>Total</b>	<b>0.1698</b>	<b>0.0830</b>	<b>1.2071</b>	<b>5.4700e-003</b>	<b>0.8617</b>	<b>3.0900e-003</b>	<b>0.8648</b>	<b>0.2292</b>	<b>2.8400e-003</b>	<b>0.2320</b>	<b>0.0000</b>	<b>495.5019</b>	<b>495.5019</b>	<b>5.7600e-003</b>	<b>0.0000</b>	<b>495.6459</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	18.6745	97.9421	179.2942	0.7878	88.7410	0.4209	89.1619	23.7599	0.3909	24.1508	0.0000	72,977.98 42	72,977.98 42	2.9303	0.0000	73,051.24 15
Unmitigated	18.6745	97.9421	179.2942	0.7878	88.7410	0.4209	89.1619	23.7599	0.3909	24.1508	0.0000	72,977.98 42	72,977.98 42	2.9303	0.0000	73,051.24 15

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	14,211.05	13,655.43	12522.82	35,644,537	35,644,537
Apartments Mid Rise	665.00	639.00	586.00	1,667,971	1,667,971
City Park	74.09	891.80	656.21	505,635	505,635
City Park	73.90	889.53	654.53	504,345	504,345
Convenience Market (24 Hour)	2,361.57	2,761.92	2427.04	1,361,170	1,361,170
Discount Club	8,096.66	10,411.38	6521.88	10,094,519	10,094,519
Elementary School	3,471.75	0.00	0.00	5,214,694	5,214,694
Fast Food Restaurant with Drive Thru	19,199.84	27,942.56	21003.26	14,303,895	14,303,895
Gasoline/Service Station	8,090.88	8,090.88	8090.88	3,464,556	3,464,556
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,732,278	1,732,278
General Office Building	3,291.35	734.06	313.32	5,163,982	5,163,982
Hardware/Paint Store	1,656.67	2,665.40	2217.40	2,151,622	2,151,622
High School	3,222.50	1,092.50	447.50	6,568,328	6,568,328
Home Improvement Superstore	4,961.44	9,154.61	9006.12	5,443,613	5,443,613
Hospital	5,729.55	4,412.01	3861.59	12,982,479	12,982,479
Library	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		

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Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,130.19	3,130.19	3130.19	2,716,022	2,716,022
Single Family Housing	20,315.68	21,147.94	18395.08	51,733,278	51,733,278
Single Family Housing	16,869.44	17,560.52	15274.64	42,957,530	42,957,530
Strip Mall	5,008.16	4,750.52	2308.59	5,638,959	5,638,959
Strip Mall	8,358.75	7,928.74	3853.10	9,411,572	9,411,572
Strip Mall	11,009.09	10,442.74	5074.81	12,395,730	12,395,730
Supermarket	6,604.70	11,472.31	10752.02	6,791,940	6,791,940
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>150,447.70</b>	<b>163,819.48</b>	<b>131,142.43</b>	<b>238,448,655</b>	<b>238,448,655</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3



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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
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hospital	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Office Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Unenclosed Parking with Elevator	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**



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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market (24 Hour)	17344	9.0000e-005	8.5000e-004	7.1000e-004	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.9255	0.9255	2.0000e-005	2.0000e-005	0.9310
Discount Club	1.04985e+006	5.6600e-003	0.0515	0.0432	3.1000e-004		3.9100e-003	3.9100e-003		3.9100e-003	3.9100e-003	0.0000	56.0242	56.0242	1.0700e-003	1.0300e-003	56.3571
Elementary School	3.4335e+006	0.0185	0.1683	0.1414	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.2246	183.2246	3.5100e-003	3.3600e-003	184.3135
Fast Food Restaurant with Drive Thru	6.87699e+006	0.0371	0.3371	0.2832	2.0200e-003		0.0256	0.0256		0.0256	0.0256	0.0000	366.9824	366.9824	7.0300e-003	6.7300e-003	369.1632
Gasoline/Service Station	107430	5.8000e-004	5.2700e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	5.7329	5.7329	1.1000e-004	1.1000e-004	5.7669
Gasoline/Service Station	232765	1.2600e-003	0.0114	9.5800e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4212	12.4212	2.4000e-004	2.3000e-004	12.4950
General Office Building	3.90904e+006	0.0211	0.1916	0.1610	1.1500e-003		0.0146	0.0146		0.0146	0.0146	0.0000	208.6013	208.6013	4.0000e-003	3.8200e-003	209.8409
Hardware/Paint Store	175066	9.4000e-004	8.5800e-003	7.2100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3422	9.3422	1.8000e-004	1.7000e-004	9.3977
High School	3.815e+006	0.0206	0.1870	0.1571	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	203.5829	203.5829	3.9000e-003	3.7300e-003	204.7927
Home Improvement Superstore	874788	4.7200e-003	0.0429	0.0360	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	46.6820	46.6820	8.9000e-004	8.6000e-004	46.9594
Hospital	2.92632e+007	0.1578	1.4345	1.2050	8.6100e-003		0.1090	0.1090		0.1090	0.1090	0.0000	1,561.5941	1,561.5941	0.0299	0.0286	1,570.8739
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	175066	9.4000e-004	8.5800e-003	7.2100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.3422	9.3422	1.8000e-004	1.7000e-004	9.3977
Single Family Housing	4.57791e+007	0.2469	2.1094	0.8976	0.0135		0.1706	0.1706		0.1706	0.1706	0.0000	2,442.9456	2,442.9456	0.0468	0.0448	2,457.4628
Single Family Housing	5.51312e+007	0.2973	2.5404	1.0810	0.0162		0.2054	0.2054		0.2054	0.2054	0.0000	2,942.0123	2,942.0123	0.0564	0.0539	2,959.4952

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	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					
Strip Mall	1.02221e+006	5.5100e-003	0.0501	0.0421	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.5491	54.5491	1.0500e-003	1.0000e-003	54.8733
Strip Mall	1.34633e+006	7.2600e-003	0.0660	0.0554	4.0000e-004		5.0200e-003	5.0200e-003		5.0200e-003	5.0200e-003	0.0000	71.8452	71.8452	1.3800e-003	1.3200e-003	72.2721
Strip Mall	612460	3.3000e-003	0.0300	0.0252	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.6832	32.6832	6.3000e-004	6.0000e-004	32.8774
Supermarket	1.64084e+006	8.8500e-003	0.0804	0.0676	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003	0.0000	87.5615	87.5615	1.6800e-003	1.6100e-003	88.0818
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.9559</b>	<b>8.3287</b>	<b>4.6524</b>	<b>0.0522</b>		<b>0.6604</b>	<b>0.6604</b>		<b>0.6604</b>	<b>0.6604</b>	<b>0.0000</b>	<b>9,459.7303</b>	<b>9,459.7303</b>	<b>0.1813</b>	<b>0.1735</b>	<b>9,515.9447</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.84928e+007	0.0997	0.8521	0.3626	5.4400e-003		0.0689	0.0689		0.0689	0.0689	0.0000	986.8466	986.8466	0.0189	0.0181	992.7109
Apartments Mid Rise	865363	4.6700e-003	0.0399	0.0170	2.5000e-004		3.2200e-003	3.2200e-003		3.2200e-003	3.2200e-003	0.0000	46.1791	46.1791	8.9000e-004	8.5000e-004	46.4535
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	15117	8.0000e-005	7.4000e-004	6.2000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8067	0.8067	2.0000e-005	1.0000e-005	0.8115
Discount Club	915048	4.9300e-003	0.0449	0.0377	2.7000e-004		3.4100e-003	3.4100e-003		3.4100e-003	3.4100e-003	0.0000	48.8305	48.8305	9.4000e-004	9.0000e-004	49.1207



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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Elementary School	2.92433e+006	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	156.0531	156.0531	2.9900e-003	2.8600e-003	156.9805
Fast Food Restaurant with Drive Thru	6.51912e+006	0.0352	0.3196	0.2684	1.9200e-003		0.0243	0.0243		0.0243	0.0243	0.0000	347.8850	347.8850	6.6700e-003	6.3800e-003	349.9524
Gasoline/Service Station	209200	1.1300e-003	0.0103	8.6100e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.1637	11.1637	2.1000e-004	2.0000e-004	11.2300
Gasoline/Service Station	96553.7	5.2000e-004	4.7300e-003	3.9800e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1525	5.1525	1.0000e-004	9.0000e-005	5.1831
General Office Building	3.33459e+006	0.0180	0.1635	0.1373	9.8000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	177.9464	177.9464	3.4100e-003	3.2600e-003	179.0039
Hardware/Paint Store	152587	8.2000e-004	7.4800e-003	6.2800e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	8.1426	8.1426	1.6000e-004	1.5000e-004	8.1910
High School	3.24925e+006	0.0175	0.1593	0.1338	9.6000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	173.3924	173.3924	3.3200e-003	3.1800e-003	174.4227
Home Improvement Superstore	762462	4.1100e-003	0.0374	0.0314	2.2000e-004		2.8400e-003	2.8400e-003		2.8400e-003	2.8400e-003	0.0000	40.6879	40.6879	7.8000e-004	7.5000e-004	40.9297
Hospital	2.53729e+007	0.1368	1.2438	1.0448	7.4600e-003		0.0945	0.0945		0.0945	0.0945	0.0000	1,353.9971	1,353.9971	0.0260	0.0248	1,362.0433
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	152587	8.2000e-004	7.4800e-003	6.2800e-003	4.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	8.1426	8.1426	1.6000e-004	1.5000e-004	8.1910
Single Family Housing	3.94213e+007	0.2126	1.8165	0.7730	0.0116		0.1469	0.1469		0.1469	0.1469	0.0000	2,103.6721	2,103.6721	0.0403	0.0386	2,116.1732
Single Family Housing	4.74747e+007	0.2560	2.1876	0.9309	0.0140		0.1769	0.1769		0.1769	0.1769	0.0000	2,533.4290	2,533.4290	0.0486	0.0465	2,548.4839
Strip Mall	1.17345e+006	6.3300e-003	0.0575	0.0483	3.5000e-004		4.3700e-003	4.3700e-003		4.3700e-003	4.3700e-003	0.0000	62.6200	62.6200	1.2000e-003	1.1500e-003	62.9921
Strip Mall	533818	2.8800e-003	0.0262	0.0220	1.6000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	28.4865	28.4865	5.5000e-004	5.2000e-004	28.6558

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Strip Mall	890956	4.8000e-003	0.0437	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003	0.0000	47.5448	47.5448	9.1000e-004	8.7000e-004	47.8273
Supermarket	1.48043e+006	7.9800e-003	0.0726	0.0610	4.4000e-004		5.5200e-003	5.5200e-003		5.5200e-003	5.5200e-003	0.0000	79.0015	79.0015	1.5100e-003	1.4500e-003	79.4709
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.8306</b>	<b>7.2383</b>	<b>4.0509</b>	<b>0.0453</b>		<b>0.5739</b>	<b>0.5739</b>		<b>0.5739</b>	<b>0.5739</b>	<b>0.0000</b>	<b>8,219.9800</b>	<b>8,219.9800</b>	<b>0.1576</b>	<b>0.1507</b>	<b>8,268.8273</b>

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	425646	45.7382	5.6000e-003	1.1600e-003	46.2234
Apartments Mid Rise	9.09606e+006	977.4260	0.1197	0.0248	987.7944
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	37024	3.9785	4.9000e-004	1.0000e-004	4.0207
Discount Club	2.24111e+006	240.8207	0.0295	6.1000e-003	243.3753
Elementary School	1.647e+006	176.9801	0.0217	4.4800e-003	178.8575
Fast Food Restaurant with Drive Thru	1.61418e+006	173.4531	0.0212	4.3900e-003	175.2930

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Gasoline/Service Station	45540	4.8936	6.0000e-004	1.2000e-004	4.9455
Gasoline/Service Station	98670	10.6027	1.3000e-003	2.7000e-004	10.7152
General Office Building	4.3089e+006	463.0169	0.0567	0.0117	467.9285
Hardware/Paint Store	373711	40.1575	4.9200e-003	1.0200e-003	40.5835
High School	1.83e+006	196.6445	0.0241	4.9800e-003	198.7305
Home Improvement Superstore	1.8674e+006	200.6632	0.0246	5.0800e-003	202.7918
Hospital	8.81102e+006	946.7975	0.1159	0.0240	956.8410
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	119525	12.8437	1.5700e-003	3.3000e-004	12.9799
Parking Lot	135380	14.5474	1.7800e-003	3.7000e-004	14.7017
Parking Lot	158200	16.9995	2.0800e-003	4.3000e-004	17.1799
Parking Lot	162820	17.4960	2.1400e-003	4.4000e-004	17.6816
Parking Lot	213430	22.9343	2.8100e-003	5.8000e-004	23.1776
Parking Lot	2730	0.5867	7.0000e-005	1.0000e-005	0.5929
Parking Lot	27440	5.8972	7.2000e-004	1.5000e-004	5.9597
Parking Lot	32935	3.5391	4.3000e-004	9.0000e-005	3.5766

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Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Parking Lot	47880	5.1450	6.3000e-004	1.3000e-004	5.1996
Parking Lot	53970	5.7994	7.1000e-004	1.5000e-004	5.8609
Parking Lot	5495	0.5905	7.0000e-005	1.0000e-005	0.5967
Parking Lot	60690	6.5215	8.0000e-004	1.7000e-004	6.5907
Parking Lot	83545	8.9774	1.1000e-003	2.3000e-004	9.0727
Parking Lot	95130	10.2223	1.2500e-003	2.6000e-004	10.3307
Pharmacy/Drugstore with Drive Thru	373711	40.1575	4.9200e-003	1.0200e-003	40.5835
Single Family Housing	1.49624e+007	1,607.7978	0.1968	0.0407	1,624.8531
Single Family Housing	1.8019e+007	1,936.2531	0.2370	0.0490	1,956.7926
Strip Mall	1.30741e+006	140.4891	0.0172	3.5600e-003	141.9794
Strip Mall	2.1821e+006	234.4800	0.0287	5.9400e-003	236.9674
Strip Mall	2.87399e+006	308.8274	0.0378	7.8200e-003	312.1033
Supermarket	2.61049e+006	280.5125	0.0343	7.1000e-003	283.4881
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	336396	36.1478	4.4300e-003	9.2000e-004	36.5312
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8,197.9374</b>	<b>1.0035</b>	<b>0.2076</b>	<b>8,284.8999</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Apartments Mid Rise	156520	16.8190	2.0600e-003	4.3000e-004	16.9974
Apartments Mid Rise	3.34482e+006	359.4216	0.0440	9.1000e-003	363.2343
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	13242.2	1.4230	1.7000e-004	4.0000e-005	1.4381
Discount Club	801569	86.1334	0.0105	2.1800e-003	87.0471
Elementary School	589239	63.3173	7.7500e-003	1.6000e-003	63.9890
Fast Food Restaurant with Drive Thru	583960	62.7500	7.6800e-003	1.5900e-003	63.4157
Gasoline/Service Station	16438.9	1.7665	2.2000e-004	4.0000e-005	1.7852
Gasoline/Service Station	35617.7	3.8273	4.7000e-004	1.0000e-004	3.8679
General Office Building	1.52538e+006	163.9115	0.0201	4.1500e-003	165.6502
Hardware/Paint Store	133664	14.3630	1.7600e-003	3.6000e-004	14.5153
High School	654710	70.3526	8.6100e-003	1.7800e-003	71.0989
Home Improvement Superstore	667905	71.7704	8.7900e-003	1.8200e-003	72.5318
Hospital	3.06468e+006	329.3186	0.0403	8.3400e-003	332.8119
Library	0	0.0000	0.0000	0.0000	0.0000

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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1021.02	0.2194	3.0000e-005	1.0000e-005	0.2218
Parking Lot	10262.6	2.2056	2.7000e-004	6.0000e-005	2.2289
Parking Lot	12317.7	1.3236	1.6000e-004	3.0000e-005	1.3377
Parking Lot	17907.1	1.9242	2.4000e-004	5.0000e-005	1.9446
Parking Lot	20184.8	2.1690	2.7000e-004	5.0000e-005	2.1920
Parking Lot	2055.13	0.2208	3.0000e-005	1.0000e-005	0.2232
Parking Lot	22698.1	2.4390	3.0000e-004	6.0000e-005	2.4649
Parking Lot	31245.8	3.3576	4.1000e-004	9.0000e-005	3.3932
Parking Lot	35578.6	3.8231	4.7000e-004	1.0000e-004	3.8637
Parking Lot	44702.3	4.8035	5.9000e-004	1.2000e-004	4.8545
Parking Lot	50632.1	5.4407	6.7000e-004	1.4000e-004	5.4984
Parking Lot	59166.8	6.3578	7.8000e-004	1.6000e-004	6.4253
Parking Lot	60894.7	6.5435	8.0000e-004	1.7000e-004	6.6129
Parking Lot	79822.8	8.5774	1.0500e-003	2.2000e-004	8.6684
Pharmacy/Drugstore with Drive Thru	133664	14.3630	1.7600e-003	3.6000e-004	14.5153
Single Family Housing	5.52618e+006	593.8218	0.0727	0.0150	600.1210

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	6.65512e+006	715.1330	0.0875	0.0181	722.7190
Strip Mall	1.02793e+006	110.4571	0.0135	2.8000e-003	111.6288
Strip Mall	467616	50.2482	6.1500e-003	1.2700e-003	50.7812
Strip Mall	780464	83.8656	0.0103	2.1200e-003	84.7552
Supermarket	954939	102.6139	0.0126	2.6000e-003	103.7024
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	125812	13.5193	1.6500e-003	3.4000e-004	13.6627
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,978.6014</b>	<b>0.3646</b>	<b>0.0754</b>	<b>3,010.1979</b>

6.0 Area Detail

6.1 Mitigation Measures Area

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, 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	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638
Unmitigated	55.0481	2.0877	63.7838	0.0120		0.4614	0.4614		0.4614	0.4614	0.0000	1,677.1407	1,677.1407	0.1291	0.0289	1,688.9638

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	6.9946					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	45.9999					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1590	1.3587	0.5782	8.6700e-003		0.1099	0.1099		0.1099	0.1099	0.0000	1,573.5066	1,573.5066	0.0302	0.0289	1,582.8572
Landscaping	1.8946	0.7290	63.2057	3.3500e-003		0.3516	0.3516		0.3516	0.3516	0.0000	103.6341	103.6341	0.0989	0.0000	106.1066
<b>Total</b>	<b>55.0481</b>	<b>2.0877</b>	<b>63.7838</b>	<b>0.0120</b>		<b>0.4614</b>	<b>0.4614</b>		<b>0.4614</b>	<b>0.4614</b>	<b>0.0000</b>	<b>1,677.1407</b>	<b>1,677.1407</b>	<b>0.1291</b>	<b>0.0289</b>	<b>1,688.9638</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, 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	6.9946					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	45.9999					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1590	1.3587	0.5782	8.6700e-003		0.1099	0.1099		0.1099	0.1099	0.0000	1,573.5066	1,573.5066	0.0302	0.0289	1,582.8572
Landscaping	1.8946	0.7290	63.2057	3.3500e-003		0.3516	0.3516		0.3516	0.3516	0.0000	103.6341	103.6341	0.0989	0.0000	106.1066
<b>Total</b>	<b>55.0481</b>	<b>2.0877</b>	<b>63.7838</b>	<b>0.0120</b>		<b>0.4614</b>	<b>0.4614</b>		<b>0.4614</b>	<b>0.4614</b>	<b>0.0000</b>	<b>1,677.1407</b>	<b>1,677.1407</b>	<b>0.1291</b>	<b>0.0289</b>	<b>1,688.9638</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	724.5790	0.8111	0.4861	889.7139
Unmitigated	724.5790	0.8111	0.4861	889.7139

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	145.75 / 91.8856	164.1601	0.1913	0.1150	203.2094
City Park	0 / 93.293	35.0871	4.3000e-003	8.9000e-004	35.4593
Convenience Market (24 Hour)	0.237032 / 0.145278	0.2654	3.1000e-004	1.9000e-004	0.3289
Discount Club	14.3478 / 8.79384	16.0656	0.0188	0.0113	19.9087
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.7468 / 0.749793	10.7274	0.0151	9.2000e-003	13.8480

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	53.0358 / 32.5058	59.3853	0.0696	0.0418	73.5910
Hardware/Paint Store	2.39254 / 1.4664	2.6790	3.1400e-003	1.8900e-003	3.3198
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	11.9553 / 7.32744	13.3866	0.0157	9.4300e-003	16.5889
Hospital	54.3833 / 10.3587	52.2541	0.0703	0.0427	66.7291
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.27546 / 1.39463	2.5479	2.9800e-003	1.7900e-003	3.1574
Single Family Housing	254.492 / 160.44	286.6380	0.3340	0.2008	354.8215
Strip Mall	40.7399 / 24.9696	45.6174	0.0534	0.0321	56.5296
Supermarket	7.96313 / 0.246282	7.1735	0.0102	6.2400e-003	9.2880
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>724.5789</b>	<b>0.8111</b>	<b>0.4861</b>	<b>889.7139</b>

7.2 Water by Land Use

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	145.75 / 91.8856	164.1601	0.1913	0.1150	203.2094
City Park	0 / 93.293	35.0871	4.3000e-003	8.9000e-004	35.4593
Convenience Market (24 Hour)	0.237032 / 0.145278	0.2654	3.1000e-004	1.9000e-004	0.3289
Discount Club	14.3478 / 8.79384	16.0656	0.0188	0.0113	19.9087
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.7468 / 0.749793	10.7274	0.0151	9.2000e-003	13.8480
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	53.0358 / 32.5058	59.3853	0.0696	0.0418	73.5910
Hardware/Paint Store	2.39254 / 1.4664	2.6790	3.1400e-003	1.8900e-003	3.3198
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	11.9553 / 7.32744	13.3866	0.0157	9.4300e-003	16.5889
Hospital	54.3833 / 10.3587	52.2541	0.0703	0.0427	66.7291
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Office Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Pharmacy/Drugstore with Drive Thru	2.27546 / 1.39463	2.5479	2.9800e-003	1.7900e-003	3.1574
Single Family Housing	254.492 / 160.44	286.6380	0.3340	0.2008	354.8215
Strip Mall	40.7399 / 24.9696	45.6174	0.0534	0.0321	56.5296
Supermarket	7.96313 / 0.246282	7.1735	0.0102	6.2400e-003	9.2880
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>724.5789</b>	<b>0.8111</b>	<b>0.4861</b>	<b>889.7139</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3,020.5279	178.5081	0.0000	7,483.2299
Unmitigated	3,020.5279	178.5081	0.0000	7,483.2299

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1029.02	208.8818	12.3446	0.0000	517.4957
City Park	6.73	1.3661	0.0807	0.0000	3.3845
Convenience Market (24 Hour)	9.62	1.9528	0.1154	0.0000	4.8379
Discount Club	833.05	169.1016	9.9936	0.0000	418.9421
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	445.78	90.4893	5.3478	0.0000	224.1834

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	277.51	56.3320	3.3291	0.0000	139.5602
Hardware/Paint Store	358.18	72.7073	4.2969	0.0000	180.1293
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1789.79	363.3112	21.4711	0.0000	900.0881
Hospital	4680.72	950.1439	56.1519	0.0000	2,353.9412
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.13	19.7165	1.1652	0.0000	48.8468
Single Family Housing	3754.44	762.1174	45.0399	0.0000	1,888.1136
Strip Mall	577.5	117.2273	6.9279	0.0000	290.4256
Supermarket	364.34	73.9577	4.3708	0.0000	183.2271
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3,020.5279</b>	<b>178.5081</b>	<b>0.0000</b>	<b>7,483.2299</b>

8.2 Waste by Land Use

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1029.02	208.8818	12.3446	0.0000	517.4957
City Park	6.73	1.3661	0.0807	0.0000	3.3845
Convenience Market (24 Hour)	9.62	1.9528	0.1154	0.0000	4.8379
Discount Club	833.05	169.1016	9.9936	0.0000	418.9421
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	445.78	90.4893	5.3478	0.0000	224.1834
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	277.51	56.3320	3.3291	0.0000	139.5602
Hardware/Paint Store	358.18	72.7073	4.2969	0.0000	180.1293
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1789.79	363.3112	21.4711	0.0000	900.0881
Hospital	4680.72	950.1439	56.1519	0.0000	2,353.941 2
Library	0	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Pharmacy/Drugstore with Drive Thru	97.13	19.7165	1.1652	0.0000	48.8468
Single Family Housing	3754.44	762.1174	45.0399	0.0000	1,888.1136
Strip Mall	577.5	117.2273	6.9279	0.0000	290.4256
Supermarket	364.34	73.9577	4.3708	0.0000	183.2271
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3,020.5279</b>	<b>178.5081</b>	<b>0.0000</b>	<b>7,483.2299</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

## **11.0 Vegetation**

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**APPENDIX J-2**  
**ORIGINAL PROJECT PEAK DAILY SUMMER CONSTRUCTION EMISSIONS**

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Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24**  
**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	298.40	1000sqft	8.22	298,400.00	0
Hospital	433.40	1000sqft	11.94	433,400.00	0
Office Park	0.00	1000sqft	0.00	0.00	0
Pharmacy/Drugstore with Drive Thru	32.30	1000sqft	1.20	32,300.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,123.00	0
Parking Lot	465.20	1000sqft	10.68	465,200.00	0
Parking Lot	386.80	1000sqft	8.88	386,800.00	0
Parking Lot	154.20	1000sqft	3.54	154,200.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	94.10	1000sqft	2.16	94,100.00	0
Parking Lot	271.80	1000sqft	6.24	271,800.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	452.00	1000sqft	10.38	452,000.00	0
Parking Lot	341.50	1000sqft	7.84	341,500.00	0

## Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Parking Lot	173.40	1000sqft	3.98	173,400.00	0
Parking Lot	238.70	1000sqft	5.48	238,700.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Unenclosed Parking with Elevator	173.40	1000sqft	3.98	173,400.00	0
Unenclosed Parking with Elevator	0.00	1000sqft	0.00	0.00	0
City Park	39.20	Acre	39.20	1,707,552.00	0
City Park	39.10	Acre	39.10	1,703,196.00	0
Fast Food Restaurant with Drive Thru	38.70	1000sqft	1.44	38,700.00	0
Apartments Mid Rise	2,137.00	Dwelling Unit	85.00	2,137,000.00	5706
Apartments Mid Rise	100.00	Dwelling Unit	11.76	178,600.00	267
Single Family Housing	2,134.00	Dwelling Unit	355.70	3,841,200.00	5698
Single Family Housing	1,772.00	Dwelling Unit	136.30	3,189,600.00	4731
Convenience Market (24 Hour)	3.20	1000sqft	0.12	3,200.00	0
Discount Club	193.70	1000sqft	7.12	193,700.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.12	3,000.00	0
Hardware/Paint Store	32.30	1000sqft	1.20	32,300.00	0
Home Improvement Superstore	161.40	1000sqft	5.92	161,400.00	0
Strip Mall	113.00	1000sqft	4.16	113,000.00	0
Strip Mall	188.60	1000sqft	6.92	188,600.00	0
Strip Mall	248.40	1000sqft	0.00	248,400.00	0
Supermarket	64.60	1000sqft	2.36	64,600.00	0

## 1.2 Other Project Characteristics

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	236.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O intensity SMUD default.

Land Use - Non-default from Project Description. Mixed Use Retail lot acreage set to 0 per User Manual.

Construction Phase - Days adjusted to match 15 year construction plan.

Off-road Equipment - Default equipment.

Trips and VMT - Based on project land use.

Grading - Grading area based on land use.

Architectural Coating - Default coating.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	125.00
tblConstructionPhase	NumDays	1,395.00	322.00
tblConstructionPhase	NumDays	990.00	229.00
tblConstructionPhase	NumDays	13,950.00	3,224.00
tblConstructionPhase	NumDays	990.00	3,224.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,237.00
tblFireplaces	NumberGas	0.00	3,906.00
tblFireplaces	NumberNoFireplace	2,237.00	0.00
tblFireplaces	NumberNoFireplace	3,906.00	0.00
tblGrading	AcresOfGrading	805.00	913.00
tblLandUse	LandUseSquareFeet	0.00	70,123.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	6.85	8.22
tblLandUse	LotAcreage	9.95	11.94
tblLandUse	LotAcreage	0.74	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.89	1.44
tblLandUse	LotAcreage	56.24	85.00
tblLandUse	LotAcreage	2.63	11.76
tblLandUse	LotAcreage	692.86	355.70
tblLandUse	LotAcreage	575.32	136.30
tblLandUse	LotAcreage	0.07	0.12
tblLandUse	LotAcreage	4.45	7.12
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	0.74	1.20

## Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblLandUse	LotAcreage	3.71	5.92
tblLandUse	LotAcreage	2.59	4.16
tblLandUse	LotAcreage	4.33	6.92
tblLandUse	LotAcreage	5.70	0.00
tblLandUse	LotAcreage	1.48	2.36
tblProjectCharacteristics	CO2IntensityFactor	590.31	236.9
tblTripsAndVMT	VendorTripNumber	2,207.00	1,003.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	6,812.00	4,531.00
tblTripsAndVMT	WorkerTripNumber	1,362.00	906.00

## 2.0 Emissions Summary

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### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5363	50.2433	32.6113	0.0636	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	6,164.5679	6,164.5679	1.9470	0.0000	6,213.2420
2021	6.5096	59.3907	46.5787	0.0875	9.2953	2.6649	11.9601	3.7055	2.4517	6.1572	0.0000	8,482.5220	8,482.5220	2.6638	0.0000	8,549.1169
2022	68.5176	122.8334	191.6675	0.6786	47.3938	1.4046	48.7984	12.7074	1.3249	14.0322	0.0000	69,012.1952	69,012.1952	3.0191	0.0000	69,087.6719
2023	66.4395	105.9607	176.9536	0.6586	47.3931	1.1500	48.5431	12.7071	1.0828	13.7899	0.0000	67,021.2515	67,021.2515	2.7685	0.0000	67,090.4624
2024	65.0612	102.5472	165.5290	0.6419	47.3926	1.0423	48.4348	12.7069	0.9806	13.6875	0.0000	65,367.4256	65,367.4256	2.6612	0.0000	65,433.9542
2025	63.8480	99.2973	155.1333	0.6254	47.3920	0.9369	48.3289	12.7067	0.8809	13.5876	0.0000	63,733.9588	63,733.9588	2.5674	0.0000	63,798.1449
2026	62.8701	97.2745	146.2339	0.6106	47.3916	0.9240	48.3156	12.7065	0.8688	13.5753	0.0000	62,270.6332	62,270.6332	2.4891	0.0000	62,332.8595
2027	61.9237	95.4294	138.2335	0.5974	47.3911	0.9073	48.2984	12.7064	0.8532	13.5596	0.0000	60,956.1157	60,956.1157	2.4174	0.0000	61,016.5497
2028	60.9683	93.8323	131.2083	0.5856	47.3908	0.8876	48.2784	12.7062	0.8349	13.5411	0.0000	59,794.3263	59,794.3263	2.3537	0.0000	59,853.1697
2029	59.9421	92.3217	124.5573	0.5752	47.3905	0.8685	48.2589	12.7061	0.8171	13.5232	0.0000	58,763.2007	58,763.2007	2.2926	0.0000	58,820.5155
2030	58.8523	86.0996	118.6828	0.5701	47.3902	0.4397	47.8299	12.7060	0.4210	13.1270	0.0000	58,195.6029	58,195.6029	1.7477	0.0000	58,239.2945
2031	57.8179	84.8154	113.0974	0.5621	47.3899	0.4228	47.8127	12.7059	0.4052	13.1111	0.0000	57,401.7593	57,401.7593	1.6960	0.0000	57,444.1596
2032	56.8915	83.6475	108.2068	0.5551	47.3897	0.4074	47.7972	12.7058	0.3910	13.0968	0.0000	56,714.9719	56,714.9719	1.6509	0.0000	56,756.2450
2033	56.1305	82.6339	104.0797	0.5492	47.3896	0.3938	47.7834	12.7058	0.3784	13.0841	0.0000	56,122.2888	56,122.2888	1.6128	0.0000	56,162.6098
2034	55.4422	81.7159	100.1842	0.5440	47.3894	0.3810	47.7704	12.7057	0.3665	13.0722	0.0000	55,611.8742	55,611.8742	1.5773	0.0000	55,651.3064
<b>Maximum</b>	<b>68.5176</b>	<b>122.8334</b>	<b>191.6675</b>	<b>0.6786</b>	<b>47.3938</b>	<b>2.6649</b>	<b>48.7984</b>	<b>12.7074</b>	<b>2.4517</b>	<b>14.0322</b>	<b>0.0000</b>	<b>69,012.1952</b>	<b>69,012.1952</b>	<b>3.0191</b>	<b>0.0000</b>	<b>69,087.6719</b>

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

**Mitigated Construction**

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5363	50.2433	32.6113	0.0636	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	6,164.5679	6,164.5679	1.9470	0.0000	6,213.2420
2021	6.5096	59.3907	46.5787	0.0875	9.2953	2.6649	11.9601	3.7055	2.4517	6.1572	0.0000	8,482.5220	8,482.5220	2.6638	0.0000	8,549.1168
2022	68.5176	122.8334	191.6675	0.6786	47.3938	1.4046	48.7984	12.7074	1.3249	14.0322	0.0000	69,012.1952	69,012.1952	3.0191	0.0000	69,087.6719
2023	66.4395	105.9607	176.9536	0.6586	47.3931	1.1500	48.5431	12.7071	1.0828	13.7899	0.0000	67,021.2515	67,021.2515	2.7685	0.0000	67,090.4624
2024	65.0612	102.5472	165.5290	0.6419	47.3926	1.0423	48.4348	12.7069	0.9806	13.6875	0.0000	65,367.4256	65,367.4256	2.6612	0.0000	65,433.9542
2025	63.8480	99.2973	155.1333	0.6254	47.3920	0.9369	48.3289	12.7067	0.8809	13.5876	0.0000	63,733.9588	63,733.9588	2.5674	0.0000	63,798.1449
2026	62.8701	97.2745	146.2339	0.6106	47.3916	0.9240	48.3156	12.7065	0.8688	13.5753	0.0000	62,270.6332	62,270.6332	2.4891	0.0000	62,332.8595
2027	61.9237	95.4294	138.2335	0.5974	47.3911	0.9073	48.2984	12.7064	0.8532	13.5596	0.0000	60,956.1157	60,956.1157	2.4174	0.0000	61,016.5497
2028	60.9683	93.8323	131.2083	0.5856	47.3908	0.8876	48.2784	12.7062	0.8349	13.5411	0.0000	59,794.3263	59,794.3263	2.3537	0.0000	59,853.1697
2029	59.9421	92.3217	124.5573	0.5752	47.3905	0.8685	48.2589	12.7061	0.8171	13.5232	0.0000	58,763.2007	58,763.2007	2.2926	0.0000	58,820.5155
2030	58.8523	86.0996	118.6828	0.5701	47.3902	0.4397	47.8299	12.7060	0.4210	13.1270	0.0000	58,195.6029	58,195.6029	1.7477	0.0000	58,239.2945
2031	57.8179	84.8154	113.0974	0.5621	47.3899	0.4228	47.8127	12.7059	0.4052	13.1111	0.0000	57,401.7593	57,401.7593	1.6960	0.0000	57,444.1596
2032	56.8915	83.6475	108.2068	0.5551	47.3897	0.4074	47.7972	12.7058	0.3910	13.0968	0.0000	56,714.9719	56,714.9719	1.6509	0.0000	56,756.2450
2033	56.1305	82.6339	104.0797	0.5492	47.3896	0.3938	47.7834	12.7058	0.3784	13.0841	0.0000	56,122.2888	56,122.2888	1.6128	0.0000	56,162.6098
2034	55.4422	81.7159	100.1842	0.5440	47.3894	0.3810	47.7704	12.7057	0.3665	13.0722	0.0000	55,611.8742	55,611.8742	1.5773	0.0000	55,651.3064
<b>Maximum</b>	<b>68.5176</b>	<b>122.8334</b>	<b>191.6675</b>	<b>0.6786</b>	<b>47.3938</b>	<b>2.6649</b>	<b>48.7984</b>	<b>12.7074</b>	<b>2.4517</b>	<b>14.0322</b>	<b>0.0000</b>	<b>69,012.1952</b>	<b>69,012.1952</b>	<b>3.0191</b>	<b>0.0000</b>	<b>69,087.6719</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.35 69	57,137.35 69	1.0951	1.0475	57,476.89 57
Mobile	157.9338	614.7982	1,240.340 1	5.2919	571.5329	2.6333	574.1661	152.5905	2.4453	155.0358		539,731.3 532	539,731.3 532	20.2955		540,238.7 400
<b>Total</b>	<b>476.6589</b>	<b>734.2014</b>	<b>1,800.386 5</b>	<b>6.0380</b>	<b>571.5329</b>	<b>14.5573</b>	<b>586.0901</b>	<b>152.5905</b>	<b>14.3692</b>	<b>166.9597</b>	<b>0.0000</b>	<b>684,507.3 122</b>	<b>684,507.3 122</b>	<b>23.9250</b>	<b>2.6375</b>	<b>685,891.4 031</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.18 88	49,649.18 88	0.9516	0.9102	49,944.22 91
Mobile	157.9338	614.7982	1,240.340 1	5.2919	571.5329	2.6333	574.1661	152.5905	2.4453	155.0358		539,731.3 532	539,731.3 532	20.2955		540,238.7 400
<b>Total</b>	<b>475.9725</b>	<b>728.2266</b>	<b>1,797.090 4</b>	<b>6.0006</b>	<b>571.5329</b>	<b>14.0830</b>	<b>585.6159</b>	<b>152.5905</b>	<b>13.8950</b>	<b>166.4855</b>	<b>0.0000</b>	<b>677,019.1 440</b>	<b>677,019.1 440</b>	<b>23.7815</b>	<b>2.5002</b>	<b>678,358.7 365</b>

## Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.14	0.81	0.18	0.62	0.00	3.26	0.08	0.00	3.30	0.28	0.00	1.09	1.09	0.60	5.20	1.10

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	6/23/2020	5	125	
3	Grading	Grading	6/24/2020	9/16/2021	5	322	
4	Paving	Paving	9/16/2021	8/2/2022	5	229	
5	Building Construction	Building Construction	8/3/2022	12/11/2034	5	3224	
6	Architectural Coating	Architectural Coating	8/22/2022	12/28/2034	5	3224	

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

**Acres of Grading (Grading Phase): 913**

**Acres of Paving: 84.62**

**Residential Indoor: 18,926,460; Residential Outdoor: 6,308,820; Non-Residential Indoor: 3,543,935; Non-Residential Outdoor: 1,181,312; Striped Parking Area: 221,148 (Architectural Coating – sqft)**

#### OffRoad Equipment

## Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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
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
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	4,531.00	1,003.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	906.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2020**

**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	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.3 Site Preparation - 2020**

**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	0.0776	0.0412	0.5877	1.4400e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		142.8323	142.8323	4.0900e-003		142.9346
<b>Total</b>	<b>0.0776</b>	<b>0.0412</b>	<b>0.5877</b>	<b>1.4400e-003</b>	<b>0.1369</b>	<b>9.5000e-004</b>	<b>0.1379</b>	<b>0.0363</b>	<b>8.8000e-004</b>	<b>0.0372</b>		<b>142.8323</b>	<b>142.8323</b>	<b>4.0900e-003</b>		<b>142.9346</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.3 Site Preparation - 2020**

**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	0.0776	0.0412	0.5877	1.4400e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		142.8323	142.8323	4.0900e-003		142.9346
<b>Total</b>	<b>0.0776</b>	<b>0.0412</b>	<b>0.5877</b>	<b>1.4400e-003</b>	<b>0.1369</b>	<b>9.5000e-004</b>	<b>0.1379</b>	<b>0.0363</b>	<b>8.8000e-004</b>	<b>0.0372</b>		<b>142.8323</b>	<b>142.8323</b>	<b>4.0900e-003</b>		<b>142.9346</b>

**3.4 Grading - 2020**

**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					9.0290	0.0000	9.0290	3.6349	0.0000	3.6349			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>9.0290</b>	<b>2.1739</b>	<b>11.2029</b>	<b>3.6349</b>	<b>2.0000</b>	<b>5.6349</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.4 Grading - 2020**

**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	0.0862	0.0458	0.6530	1.5900e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		158.7026	158.7026	4.5500e-003		158.8163
<b>Total</b>	<b>0.0862</b>	<b>0.0458</b>	<b>0.6530</b>	<b>1.5900e-003</b>	<b>0.1521</b>	<b>1.0600e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.7000e-004</b>	<b>0.0413</b>		<b>158.7026</b>	<b>158.7026</b>	<b>4.5500e-003</b>		<b>158.8163</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0290	0.0000	9.0290	3.6349	0.0000	3.6349			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>9.0290</b>	<b>2.1739</b>	<b>11.2029</b>	<b>3.6349</b>	<b>2.0000</b>	<b>5.6349</b>	<b>0.0000</b>	<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.4 Grading - 2020**

**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	0.0862	0.0458	0.6530	1.5900e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		158.7026	158.7026	4.5500e-003		158.8163
<b>Total</b>	<b>0.0862</b>	<b>0.0458</b>	<b>0.6530</b>	<b>1.5900e-003</b>	<b>0.1521</b>	<b>1.0600e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.7000e-004</b>	<b>0.0413</b>		<b>158.7026</b>	<b>158.7026</b>	<b>4.5500e-003</b>		<b>158.8163</b>

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0290	0.0000	9.0290	3.6349	0.0000	3.6349			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>9.0290</b>	<b>1.9853</b>	<b>11.0144</b>	<b>3.6349</b>	<b>1.8265</b>	<b>5.4614</b>		<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.4 Grading - 2021**

**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	0.0802	0.0410	0.5983	1.5400e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		153.2958	153.2958	4.0800e-003		153.3978
<b>Total</b>	<b>0.0802</b>	<b>0.0410</b>	<b>0.5983</b>	<b>1.5400e-003</b>	<b>0.1521</b>	<b>1.0300e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.5000e-004</b>	<b>0.0413</b>		<b>153.2958</b>	<b>153.2958</b>	<b>4.0800e-003</b>		<b>153.3978</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0290	0.0000	9.0290	3.6349	0.0000	3.6349			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>9.0290</b>	<b>1.9853</b>	<b>11.0144</b>	<b>3.6349</b>	<b>1.8265</b>	<b>5.4614</b>	<b>0.0000</b>	<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.4 Grading - 2021**

**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	0.0802	0.0410	0.5983	1.5400e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		153.2958	153.2958	4.0800e-003		153.3978
<b>Total</b>	<b>0.0802</b>	<b>0.0410</b>	<b>0.5983</b>	<b>1.5400e-003</b>	<b>0.1521</b>	<b>1.0300e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.5000e-004</b>	<b>0.0413</b>		<b>153.2958</b>	<b>153.2958</b>	<b>4.0800e-003</b>		<b>153.3978</b>

**3.5 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9226					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1782</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Paving - 2021**

**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	0.0601	0.0308	0.4487	1.1500e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		114.9719	114.9719	3.0600e-003		115.0483
<b>Total</b>	<b>0.0601</b>	<b>0.0308</b>	<b>0.4487</b>	<b>1.1500e-003</b>	<b>0.1141</b>	<b>7.7000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.1000e-004</b>	<b>0.0310</b>		<b>114.9719</b>	<b>114.9719</b>	<b>3.0600e-003</b>		<b>115.0483</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9226					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1782</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Paving - 2021**

**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	0.0601	0.0308	0.4487	1.1500e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		114.9719	114.9719	3.0600e-003		115.0483
<b>Total</b>	<b>0.0601</b>	<b>0.0308</b>	<b>0.4487</b>	<b>1.1500e-003</b>	<b>0.1141</b>	<b>7.7000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.1000e-004</b>	<b>0.0310</b>		<b>114.9719</b>	<b>114.9719</b>	<b>3.0600e-003</b>		<b>115.0483</b>

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9226					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0254</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Paving - 2022**

**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	0.0561	0.0277	0.4133	1.1100e-003	0.1141	7.5000e-004	0.1149	0.0303	6.9000e-004	0.0310		110.8487	110.8487	2.7500e-003		110.9174
<b>Total</b>	<b>0.0561</b>	<b>0.0277</b>	<b>0.4133</b>	<b>1.1100e-003</b>	<b>0.1141</b>	<b>7.5000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>6.9000e-004</b>	<b>0.0310</b>		<b>110.8487</b>	<b>110.8487</b>	<b>2.7500e-003</b>		<b>110.9174</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9226					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0254</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>



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**3.5 Paving - 2022**

**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	0.0561	0.0277	0.4133	1.1100e-003	0.1141	7.5000e-004	0.1149	0.0303	6.9000e-004	0.0310		110.8487	110.8487	2.7500e-003		110.9174
<b>Total</b>	<b>0.0561</b>	<b>0.0277</b>	<b>0.4133</b>	<b>1.1100e-003</b>	<b>0.1141</b>	<b>7.5000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>6.9000e-004</b>	<b>0.0310</b>		<b>110.8487</b>	<b>110.8487</b>	<b>2.7500e-003</b>		<b>110.9174</b>

**3.6 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2022**

**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	2.8760	95.7768	23.7017	0.2452	6.0346	0.2420	6.2766	1.7364	0.2315	1.9679		25,997.4602	25,997.4602	1.3920		26,032.2607
Worker	16.9506	8.3607	124.8286	0.3362	34.4673	0.2266	34.6939	9.1428	0.2088	9.3515		33,483.6929	33,483.6929	0.8307		33,504.4598
<b>Total</b>	<b>19.8266</b>	<b>104.1375</b>	<b>148.5303</b>	<b>0.5814</b>	<b>40.5019</b>	<b>0.4686</b>	<b>40.9705</b>	<b>10.8792</b>	<b>0.4402</b>	<b>11.3194</b>		<b>59,481.1530</b>	<b>59,481.1530</b>	<b>2.2227</b>		<b>59,536.7205</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

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**3.6 Building Construction - 2022**

**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	2.8760	95.7768	23.7017	0.2452	6.0346	0.2420	6.2766	1.7364	0.2315	1.9679		25,997.4602	25,997.4602	1.3920		26,032.2607
Worker	16.9506	8.3607	124.8286	0.3362	34.4673	0.2266	34.6939	9.1428	0.2088	9.3515		33,483.6929	33,483.6929	0.8307		33,504.4598
<b>Total</b>	<b>19.8266</b>	<b>104.1375</b>	<b>148.5303</b>	<b>0.5814</b>	<b>40.5019</b>	<b>0.4686</b>	<b>40.9705</b>	<b>10.8792</b>	<b>0.4402</b>	<b>11.3194</b>		<b>59,481.1530</b>	<b>59,481.1530</b>	<b>2.2227</b>		<b>59,536.7205</b>

**3.6 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.2727	81.2421	21.0252	0.2405	6.0339	0.1142	6.1481	1.7362	0.1091	1.8453		25,516.20 27	25,516.20 27	1.2503		25,547.45 89
Worker	15.8435	7.5259	114.8987	0.3235	34.4673	0.2211	34.6884	9.1428	0.2037	9.3464		32,224.84 43	32,224.84 43	0.7446		32,243.45 98
<b>Total</b>	<b>18.1162</b>	<b>88.7679</b>	<b>135.9239</b>	<b>0.5640</b>	<b>40.5012</b>	<b>0.3352</b>	<b>40.8364</b>	<b>10.8790</b>	<b>0.3128</b>	<b>11.1918</b>		<b>57,741.04 70</b>	<b>57,741.04 70</b>	<b>1.9949</b>		<b>57,790.91 86</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.209 9</b>	<b>2,555.209 9</b>	<b>0.6079</b>		<b>2,570.406 1</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.2727	81.2421	21.0252	0.2405	6.0339	0.1142	6.1481	1.7362	0.1091	1.8453		25,516.20 27	25,516.20 27	1.2503		25,547.45 89
Worker	15.8435	7.5259	114.8987	0.3235	34.4673	0.2211	34.6884	9.1428	0.2037	9.3464		32,224.84 43	32,224.84 43	0.7446		32,243.45 98
<b>Total</b>	<b>18.1162</b>	<b>88.7679</b>	<b>135.9239</b>	<b>0.5640</b>	<b>40.5012</b>	<b>0.3352</b>	<b>40.8364</b>	<b>10.8790</b>	<b>0.3128</b>	<b>11.1918</b>		<b>57,741.04 70</b>	<b>57,741.04 70</b>	<b>1.9949</b>		<b>57,790.91 86</b>

**3.6 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.698 9</b>	<b>2,555.698 9</b>	<b>0.6044</b>		<b>2,570.807 7</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.1655	79.7197	19.6521	0.2390	6.0333	0.1086	6.1419	1.7360	0.1038	1.8398		25,367.02 32	25,367.02 32	1.2349		25,397.89 59
Worker	14.8776	6.8043	106.5872	0.3108	34.4673	0.2162	34.6835	9.1428	0.1991	9.3419		30,970.51 87	30,970.51 87	0.6717		30,987.311 8
<b>Total</b>	<b>17.0431</b>	<b>86.5240</b>	<b>126.2393</b>	<b>0.5498</b>	<b>40.5006</b>	<b>0.3248</b>	<b>40.8254</b>	<b>10.8787</b>	<b>0.3029</b>	<b>11.1817</b>		<b>56,337.54 19</b>	<b>56,337.54 19</b>	<b>1.9066</b>		<b>56,385.20 77</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.698 9</b>	<b>2,555.698 9</b>	<b>0.6044</b>		<b>2,570.807 7</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.1655	79.7197	19.6521	0.2390	6.0333	0.1086	6.1419	1.7360	0.1038	1.8398		25,367.02 32	25,367.02 32	1.2349		25,397.89 59
Worker	14.8776	6.8043	106.5872	0.3108	34.4673	0.2162	34.6835	9.1428	0.1991	9.3419		30,970.51 87	30,970.51 87	0.6717		30,987.311 8
<b>Total</b>	<b>17.0431</b>	<b>86.5240</b>	<b>126.2393</b>	<b>0.5498</b>	<b>40.5006</b>	<b>0.3248</b>	<b>40.8254</b>	<b>10.8787</b>	<b>0.3029</b>	<b>11.1817</b>		<b>56,337.54 19</b>	<b>56,337.54 19</b>	<b>1.9066</b>		<b>56,385.20 77</b>

**3.6 Building Construction - 2025**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2025**

**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	2.0769	78.2659	18.6081	0.2375	6.0328	0.1032	6.1360	1.7358	0.0987	1.8344		25,222.6208	25,222.6208	1.2204		25,253.1306
Worker	14.0355	6.1805	98.8631	0.2983	34.4673	0.2122	34.6795	9.1428	0.1954	9.3381		29,728.9399	29,728.9399	0.6090		29,744.1644
<b>Total</b>	<b>16.1124</b>	<b>84.4463</b>	<b>117.4713</b>	<b>0.5358</b>	<b>40.5001</b>	<b>0.3154</b>	<b>40.8155</b>	<b>10.8785</b>	<b>0.2940</b>	<b>11.1726</b>		<b>54,951.5607</b>	<b>54,951.5607</b>	<b>1.8294</b>		<b>54,997.2950</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2025**

**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	2.0769	78.2659	18.6081	0.2375	6.0328	0.1032	6.1360	1.7358	0.0987	1.8344		25,222.6208	25,222.6208	1.2204		25,253.1306
Worker	14.0355	6.1805	98.8631	0.2983	34.4673	0.2122	34.6795	9.1428	0.1954	9.3381		29,728.9399	29,728.9399	0.6090		29,744.1644
<b>Total</b>	<b>16.1124</b>	<b>84.4463</b>	<b>117.4713</b>	<b>0.5358</b>	<b>40.5001</b>	<b>0.3154</b>	<b>40.8155</b>	<b>10.8785</b>	<b>0.2940</b>	<b>11.1726</b>		<b>54,951.5607</b>	<b>54,951.5607</b>	<b>1.8294</b>		<b>54,997.2950</b>

**3.6 Building Construction - 2026**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2026**

**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	1.9988	76.8827	17.7612	0.2361	6.0323	0.0978	6.1301	1.7356	0.0935	1.8291		25,085.3112	25,085.3112	1.2072		25,115.4916
Worker	13.2857	5.6474	92.1525	0.2872	34.4673	0.2060	34.6733	9.1428	0.1896	9.3324		28,623.8859	28,623.8859	0.5546		28,637.7516
<b>Total</b>	<b>15.2845</b>	<b>82.5301</b>	<b>109.9136</b>	<b>0.5233</b>	<b>40.4996</b>	<b>0.3038</b>	<b>40.8034</b>	<b>10.8784</b>	<b>0.2831</b>	<b>11.1615</b>		<b>53,709.1971</b>	<b>53,709.1971</b>	<b>1.7619</b>		<b>53,753.2433</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2026**

**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	1.9988	76.8827	17.7612	0.2361	6.0323	0.0978	6.1301	1.7356	0.0935	1.8291		25,085.3112	25,085.3112	1.2072		25,115.4916
Worker	13.2857	5.6474	92.1525	0.2872	34.4673	0.2060	34.6733	9.1428	0.1896	9.3324		28,623.8859	28,623.8859	0.5546		28,637.7516
<b>Total</b>	<b>15.2845</b>	<b>82.5301</b>	<b>109.9136</b>	<b>0.5233</b>	<b>40.4996</b>	<b>0.3038</b>	<b>40.8034</b>	<b>10.8784</b>	<b>0.2831</b>	<b>11.1615</b>		<b>53,709.1971</b>	<b>53,709.1971</b>	<b>1.7619</b>		<b>53,753.2433</b>

**3.6 Building Construction - 2027**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2027**

**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	1.9300	75.6117	17.0251	0.2348	6.0319	0.0932	6.1251	1.7354	0.0891	1.8246		24,956.2374	24,956.2374	1.1944		24,986.0967
Worker	12.5543	5.1690	86.0987	0.2772	34.4673	0.1958	34.6631	9.1428	0.1802	9.3230		27,635.9798	27,635.9798	0.5056		27,648.6196
<b>Total</b>	<b>14.4843</b>	<b>80.7806</b>	<b>103.1238</b>	<b>0.5120</b>	<b>40.4992</b>	<b>0.2891</b>	<b>40.7883</b>	<b>10.8782</b>	<b>0.2694</b>	<b>11.1476</b>		<b>52,592.2172</b>	<b>52,592.2172</b>	<b>1.7000</b>		<b>52,634.7163</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2027**

**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	1.9300	75.6117	17.0251	0.2348	6.0319	0.0932	6.1251	1.7354	0.0891	1.8246		24,956.2374	24,956.2374	1.1944		24,986.0967
Worker	12.5543	5.1690	86.0987	0.2772	34.4673	0.1958	34.6631	9.1428	0.1802	9.3230		27,635.9798	27,635.9798	0.5056		27,648.6196
<b>Total</b>	<b>14.4843</b>	<b>80.7806</b>	<b>103.1238</b>	<b>0.5120</b>	<b>40.4992</b>	<b>0.2891</b>	<b>40.7883</b>	<b>10.8782</b>	<b>0.2694</b>	<b>11.1476</b>		<b>52,592.2172</b>	<b>52,592.2172</b>	<b>1.7000</b>		<b>52,634.7163</b>

**3.6 Building Construction - 2028**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2028**

**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	1.8694	74.5242	16.4055	0.2337	6.0316	0.0892	6.1208	1.7353	0.0853	1.8206		24,845.8058	24,845.8058	1.1814		24,875.3410
Worker	11.8086	4.7442	80.7605	0.2684	34.4673	0.1828	34.6501	9.1428	0.1682	9.3110		26,759.8161	26,759.8161	0.4634		26,771.4004
<b>Total</b>	<b>13.6780</b>	<b>79.2684</b>	<b>97.1660</b>	<b>0.5020</b>	<b>40.4988</b>	<b>0.2720</b>	<b>40.7708</b>	<b>10.8781</b>	<b>0.2535</b>	<b>11.1316</b>		<b>51,605.6219</b>	<b>51,605.6219</b>	<b>1.6448</b>		<b>51,646.7414</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2028**

**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	1.8694	74.5242	16.4055	0.2337	6.0316	0.0892	6.1208	1.7353	0.0853	1.8206		24,845.8058	24,845.8058	1.1814		24,875.3410
Worker	11.8086	4.7442	80.7605	0.2684	34.4673	0.1828	34.6501	9.1428	0.1682	9.3110		26,759.8161	26,759.8161	0.4634		26,771.4004
<b>Total</b>	<b>13.6780</b>	<b>79.2684</b>	<b>97.1660</b>	<b>0.5020</b>	<b>40.4988</b>	<b>0.2720</b>	<b>40.7708</b>	<b>10.8781</b>	<b>0.2535</b>	<b>11.1316</b>		<b>51,605.6219</b>	<b>51,605.6219</b>	<b>1.6448</b>		<b>51,646.7414</b>

**3.6 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2029**

**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	1.8146	73.4884	15.8889	0.2327	6.0312	0.0851	6.1164	1.7352	0.0814	1.8166		24,745.3005	24,745.3005	1.1685		24,774.5128
Worker	10.9990	4.3487	75.6483	0.2606	34.4673	0.1702	34.6375	9.1428	0.1567	9.2994		25,984.2706	25,984.2706	0.4232		25,994.8501
<b>Total</b>	<b>12.8137</b>	<b>77.8370</b>	<b>91.5372</b>	<b>0.4932</b>	<b>40.4985</b>	<b>0.2554</b>	<b>40.7539</b>	<b>10.8780</b>	<b>0.2380</b>	<b>11.1160</b>		<b>50,729.5711</b>	<b>50,729.5711</b>	<b>1.5917</b>		<b>50,769.3629</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2029**

**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	1.8146	73.4884	15.8889	0.2327	6.0312	0.0851	6.1164	1.7352	0.0814	1.8166		24,745.3005	24,745.3005	1.1685		24,774.5128
Worker	10.9990	4.3487	75.6483	0.2606	34.4673	0.1702	34.6375	9.1428	0.1567	9.2994		25,984.2706	25,984.2706	0.4232		25,994.8501
<b>Total</b>	<b>12.8137</b>	<b>77.8370</b>	<b>91.5372</b>	<b>0.4932</b>	<b>40.4985</b>	<b>0.2554</b>	<b>40.7539</b>	<b>10.8780</b>	<b>0.2380</b>	<b>11.1160</b>		<b>50,729.5711</b>	<b>50,729.5711</b>	<b>1.5917</b>		<b>50,769.3629</b>

**3.6 Building Construction - 2030**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2030**

**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	1.7654	72.5188	15.4649	0.2318	6.0309	0.0810	6.1119	1.7351	0.0774	1.8125		24,655.74 20	24,655.74 20	1.1551		24,684.61 94
Worker	10.2139	3.9918	71.0552	0.2537	34.4673	0.1586	34.6259	9.1428	0.1459	9.2887		25,301.65 25	25,301.65 25	0.3875		25,311.338 9
<b>Total</b>	<b>11.9793</b>	<b>76.5106</b>	<b>86.5201</b>	<b>0.4854</b>	<b>40.4982</b>	<b>0.2396</b>	<b>40.7378</b>	<b>10.8779</b>	<b>0.2233</b>	<b>11.1012</b>		<b>49,957.39 45</b>	<b>49,957.39 45</b>	<b>1.5426</b>		<b>49,995.95 83</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2030**

**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	1.7654	72.5188	15.4649	0.2318	6.0309	0.0810	6.1119	1.7351	0.0774	1.8125		24,655.74 20	24,655.74 20	1.1551		24,684.61 94
Worker	10.2139	3.9918	71.0552	0.2537	34.4673	0.1586	34.6259	9.1428	0.1459	9.2887		25,301.65 25	25,301.65 25	0.3875		25,311.338 9
<b>Total</b>	<b>11.9793</b>	<b>76.5106</b>	<b>86.5201</b>	<b>0.4854</b>	<b>40.4982</b>	<b>0.2396</b>	<b>40.7378</b>	<b>10.8779</b>	<b>0.2233</b>	<b>11.1012</b>		<b>49,957.39 45</b>	<b>49,957.39 45</b>	<b>1.5426</b>		<b>49,995.95 83</b>

**3.6 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2031**

**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	1.7236	71.6381	15.1184	0.2310	6.0307	0.0773	6.1080	1.7350	0.0739	1.8089		24,579.70 72	24,579.70 72	1.1435		24,608.29 55
Worker	9.3866	3.6554	66.6894	0.2476	34.4673	0.1475	34.6148	9.1428	0.1357	9.2785		24,703.45 64	24,703.45 64	0.3541		24,712.30 78
<b>Total</b>	<b>11.1102</b>	<b>75.2935</b>	<b>81.8077</b>	<b>0.4786</b>	<b>40.4980</b>	<b>0.2248</b>	<b>40.7228</b>	<b>10.8778</b>	<b>0.2096</b>	<b>11.0874</b>		<b>49,283.16 37</b>	<b>49,283.16 37</b>	<b>1.4976</b>		<b>49,320.60 32</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2031**

**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	1.7236	71.6381	15.1184	0.2310	6.0307	0.0773	6.1080	1.7350	0.0739	1.8089		24,579.70 72	24,579.70 72	1.1435		24,608.29 55
Worker	9.3866	3.6554	66.6894	0.2476	34.4673	0.1475	34.6148	9.1428	0.1357	9.2785		24,703.45 64	24,703.45 64	0.3541		24,712.30 78
<b>Total</b>	<b>11.1102</b>	<b>75.2935</b>	<b>81.8077</b>	<b>0.4786</b>	<b>40.4980</b>	<b>0.2248</b>	<b>40.7228</b>	<b>10.8778</b>	<b>0.2096</b>	<b>11.0874</b>		<b>49,283.16 37</b>	<b>49,283.16 37</b>	<b>1.4976</b>		<b>49,320.60 32</b>

**3.6 Building Construction - 2032**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2032**

**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	1.6888	70.8186	14.8442	0.2304	6.0305	0.0743	6.1048	1.7349	0.0711	1.8060		24,517.71 66	24,517.71 66	1.1333		24,546.04 98
Worker	8.6436	3.3651	62.8423	0.2424	34.4673	0.1372	34.6045	9.1428	0.1262	9.2690		24,182.77 34	24,182.77 34	0.3250		24,190.89 78
<b>Total</b>	<b>10.3324</b>	<b>74.1837</b>	<b>77.6864</b>	<b>0.4728</b>	<b>40.4978</b>	<b>0.2115</b>	<b>40.7093</b>	<b>10.8777</b>	<b>0.1973</b>	<b>11.0750</b>		<b>48,700.48 99</b>	<b>48,700.48 99</b>	<b>1.4583</b>		<b>48,736.94 76</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2032**

**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	1.6888	70.8186	14.8442	0.2304	6.0305	0.0743	6.1048	1.7349	0.0711	1.8060		24,517.71 66	24,517.71 66	1.1333		24,546.04 98
Worker	8.6436	3.3651	62.8423	0.2424	34.4673	0.1372	34.6045	9.1428	0.1262	9.2690		24,182.77 34	24,182.77 34	0.3250		24,190.89 78
<b>Total</b>	<b>10.3324</b>	<b>74.1837</b>	<b>77.6864</b>	<b>0.4728</b>	<b>40.4978</b>	<b>0.2115</b>	<b>40.7093</b>	<b>10.8777</b>	<b>0.1973</b>	<b>11.0750</b>		<b>48,700.48 99</b>	<b>48,700.48 99</b>	<b>1.4583</b>		<b>48,736.94 76</b>

**3.6 Building Construction - 2033**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2033**

**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	1.6594	70.0909	14.6116	0.2299	6.0303	0.0718	6.1021	1.7349	0.0686	1.8035		24,463.7169	24,463.7169	1.1243		24,491.8245
Worker	8.0339	3.1269	59.5967	0.2378	34.4673	0.1280	34.5953	9.1428	0.1177	9.2605		23,733.8539	23,733.8539	0.3008		23,741.3730
<b>Total</b>	<b>9.6933</b>	<b>73.2177</b>	<b>74.2083</b>	<b>0.4677</b>	<b>40.4976</b>	<b>0.1998</b>	<b>40.6974</b>	<b>10.8776</b>	<b>0.1864</b>	<b>11.0640</b>		<b>48,197.5708</b>	<b>48,197.5708</b>	<b>1.4251</b>		<b>48,233.1975</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2033**

**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	1.6594	70.0909	14.6116	0.2299	6.0303	0.0718	6.1021	1.7349	0.0686	1.8035		24,463.71 69	24,463.71 69	1.1243		24,491.82 45
Worker	8.0339	3.1269	59.5967	0.2378	34.4673	0.1280	34.5953	9.1428	0.1177	9.2605		23,733.85 39	23,733.85 39	0.3008		23,741.37 30
<b>Total</b>	<b>9.6933</b>	<b>73.2177</b>	<b>74.2083</b>	<b>0.4677</b>	<b>40.4976</b>	<b>0.1998</b>	<b>40.6974</b>	<b>10.8776</b>	<b>0.1864</b>	<b>11.0640</b>		<b>48,197.57 08</b>	<b>48,197.57 08</b>	<b>1.4251</b>		<b>48,233.19 75</b>

**3.6 Building Construction - 2034**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2034**

**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	1.6322	69.4171	14.3998	0.2294	6.0302	0.0693	6.0995	1.7348	0.0663	1.8011		24,418.6139	24,418.6139	1.1159		24,446.5103
Worker	7.4830	2.9234	56.5268	0.2339	34.4673	0.1194	34.5867	9.1428	0.1098	9.2526		23,346.0800	23,346.0800	0.2782		23,353.0344
<b>Total</b>	<b>9.1152</b>	<b>72.3404</b>	<b>70.9266</b>	<b>0.4633</b>	<b>40.4975</b>	<b>0.1887</b>	<b>40.6862</b>	<b>10.8776</b>	<b>0.1761</b>	<b>11.0537</b>		<b>47,764.6939</b>	<b>47,764.6939</b>	<b>1.3940</b>		<b>47,799.5447</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Building Construction - 2034**

**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	1.6322	69.4171	14.3998	0.2294	6.0302	0.0693	6.0995	1.7348	0.0663	1.8011		24,418.6139	24,418.6139	1.1159		24,446.5103
Worker	7.4830	2.9234	56.5268	0.2339	34.4673	0.1194	34.5867	9.1428	0.1098	9.2526		23,346.0800	23,346.0800	0.2782		23,353.0344
<b>Total</b>	<b>9.1152</b>	<b>72.3404</b>	<b>70.9266</b>	<b>0.4633</b>	<b>40.4975</b>	<b>0.1887</b>	<b>40.6862</b>	<b>10.8776</b>	<b>0.1761</b>	<b>11.0537</b>		<b>47,764.6939</b>	<b>47,764.6939</b>	<b>1.3940</b>		<b>47,799.5447</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>43.5954</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2022**

**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	3.3894	1.6718	24.9602	0.0672	6.8919	0.0453	6.9372	1.8282	0.0417	1.8699		6,695.2606	6,695.2606	0.1661		6,699.4131
<b>Total</b>	<b>3.3894</b>	<b>1.6718</b>	<b>24.9602</b>	<b>0.0672</b>	<b>6.8919</b>	<b>0.0453</b>	<b>6.9372</b>	<b>1.8282</b>	<b>0.0417</b>	<b>1.8699</b>		<b>6,695.2606</b>	<b>6,695.2606</b>	<b>0.1661</b>		<b>6,699.4131</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>43.5954</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2022**

**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	3.3894	1.6718	24.9602	0.0672	6.8919	0.0453	6.9372	1.8282	0.0417	1.8699		6,695.2606	6,695.2606	0.1661		6,699.4131
<b>Total</b>	<b>3.3894</b>	<b>1.6718</b>	<b>24.9602</b>	<b>0.0672</b>	<b>6.8919</b>	<b>0.0453</b>	<b>6.9372</b>	<b>1.8282</b>	<b>0.0417</b>	<b>1.8699</b>		<b>6,695.2606</b>	<b>6,695.2606</b>	<b>0.1661</b>		<b>6,699.4131</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>43.5825</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.1680	1.5048	22.9747	0.0647	6.8919	0.0442	6.9361	1.8282	0.0407	1.8689		6,443.5465	6,443.5465	0.1489		6,447.2687
<b>Total</b>	<b>3.1680</b>	<b>1.5048</b>	<b>22.9747</b>	<b>0.0647</b>	<b>6.8919</b>	<b>0.0442</b>	<b>6.9361</b>	<b>1.8282</b>	<b>0.0407</b>	<b>1.8689</b>		<b>6,443.5465</b>	<b>6,443.5465</b>	<b>0.1489</b>		<b>6,447.2687</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>43.5825</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.1680	1.5048	22.9747	0.0647	6.8919	0.0442	6.9361	1.8282	0.0407	1.8689		6,443.5465	6,443.5465	0.1489		6,447.2687
<b>Total</b>	<b>3.1680</b>	<b>1.5048</b>	<b>22.9747</b>	<b>0.0647</b>	<b>6.8919</b>	<b>0.0442</b>	<b>6.9361</b>	<b>1.8282</b>	<b>0.0407</b>	<b>1.8689</b>		<b>6,443.5465</b>	<b>6,443.5465</b>	<b>0.1489</b>		<b>6,447.2687</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>43.5716</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.9749	1.3606	21.3127	0.0622	6.8919	0.0432	6.9352	1.8282	0.0398	1.8680		6,192.7367	6,192.7367	0.1343		6,196.0946
<b>Total</b>	<b>2.9749</b>	<b>1.3606</b>	<b>21.3127</b>	<b>0.0622</b>	<b>6.8919</b>	<b>0.0432</b>	<b>6.9352</b>	<b>1.8282</b>	<b>0.0398</b>	<b>1.8680</b>		<b>6,192.7367</b>	<b>6,192.7367</b>	<b>0.1343</b>		<b>6,196.0946</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>43.5716</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.9749	1.3606	21.3127	0.0622	6.8919	0.0432	6.9352	1.8282	0.0398	1.8680		6,192.7367	6,192.7367	0.1343		6,196.0946
<b>Total</b>	<b>2.9749</b>	<b>1.3606</b>	<b>21.3127</b>	<b>0.0622</b>	<b>6.8919</b>	<b>0.0432</b>	<b>6.9352</b>	<b>1.8282</b>	<b>0.0398</b>	<b>1.8680</b>		<b>6,192.7367</b>	<b>6,192.7367</b>	<b>0.1343</b>		<b>6,196.0946</b>

**3.7 Architectural Coating - 2025**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2025**

**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	2.8065	1.2358	19.7683	0.0597	6.8919	0.0424	6.9344	1.8282	0.0391	1.8672		5,944.4757	5,944.4757	0.1218		5,947.5200
<b>Total</b>	<b>2.8065</b>	<b>1.2358</b>	<b>19.7683</b>	<b>0.0597</b>	<b>6.8919</b>	<b>0.0424</b>	<b>6.9344</b>	<b>1.8282</b>	<b>0.0391</b>	<b>1.8672</b>		<b>5,944.4757</b>	<b>5,944.4757</b>	<b>0.1218</b>		<b>5,947.5200</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2025**

**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	2.8065	1.2358	19.7683	0.0597	6.8919	0.0424	6.9344	1.8282	0.0391	1.8672		5,944.4757	5,944.4757	0.1218		5,947.5200
<b>Total</b>	<b>2.8065</b>	<b>1.2358</b>	<b>19.7683</b>	<b>0.0597</b>	<b>6.8919</b>	<b>0.0424</b>	<b>6.9344</b>	<b>1.8282</b>	<b>0.0391</b>	<b>1.8672</b>		<b>5,944.4757</b>	<b>5,944.4757</b>	<b>0.1218</b>		<b>5,947.5200</b>

**3.7 Architectural Coating - 2026**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2026**

**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	2.6566	1.1292	18.4264	0.0574	6.8919	0.0412	6.9331	1.8282	0.0379	1.8661		5,723.5137	5,723.5137	0.1109		5,726.2863
<b>Total</b>	<b>2.6566</b>	<b>1.1292</b>	<b>18.4264</b>	<b>0.0574</b>	<b>6.8919</b>	<b>0.0412</b>	<b>6.9331</b>	<b>1.8282</b>	<b>0.0379</b>	<b>1.8661</b>		<b>5,723.5137</b>	<b>5,723.5137</b>	<b>0.1109</b>		<b>5,726.2863</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2026**

**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	2.6566	1.1292	18.4264	0.0574	6.8919	0.0412	6.9331	1.8282	0.0379	1.8661		5,723.5137	5,723.5137	0.1109		5,726.2863
<b>Total</b>	<b>2.6566</b>	<b>1.1292</b>	<b>18.4264</b>	<b>0.0574</b>	<b>6.8919</b>	<b>0.0412</b>	<b>6.9331</b>	<b>1.8282</b>	<b>0.0379</b>	<b>1.8661</b>		<b>5,723.5137</b>	<b>5,723.5137</b>	<b>0.1109</b>		<b>5,726.2863</b>

**3.7 Architectural Coating - 2027**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2027**

**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	2.5103	1.0336	17.2159	0.0554	6.8919	0.0392	6.9311	1.8282	0.0360	1.8642		5,525.976 1	5,525.976 1	0.1011		5,528.503 5
<b>Total</b>	<b>2.5103</b>	<b>1.0336</b>	<b>17.2159</b>	<b>0.0554</b>	<b>6.8919</b>	<b>0.0392</b>	<b>6.9311</b>	<b>1.8282</b>	<b>0.0360</b>	<b>1.8642</b>		<b>5,525.976 1</b>	<b>5,525.976 1</b>	<b>0.1011</b>		<b>5,528.503 5</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2027**

**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	2.5103	1.0336	17.2159	0.0554	6.8919	0.0392	6.9311	1.8282	0.0360	1.8642		5,525.976 1	5,525.976 1	0.1011		5,528.503 5
<b>Total</b>	<b>2.5103</b>	<b>1.0336</b>	<b>17.2159</b>	<b>0.0554</b>	<b>6.8919</b>	<b>0.0392</b>	<b>6.9311</b>	<b>1.8282</b>	<b>0.0360</b>	<b>1.8642</b>		<b>5,525.976 1</b>	<b>5,525.976 1</b>	<b>0.1011</b>		<b>5,528.503 5</b>

**3.7 Architectural Coating - 2028**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2028**

**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	2.3612	0.9486	16.1485	0.0537	6.8919	0.0366	6.9285	1.8282	0.0336	1.8618		5,350.7820	5,350.7820	0.0927		5,353.0984
<b>Total</b>	<b>2.3612</b>	<b>0.9486</b>	<b>16.1485</b>	<b>0.0537</b>	<b>6.8919</b>	<b>0.0366</b>	<b>6.9285</b>	<b>1.8282</b>	<b>0.0336</b>	<b>1.8618</b>		<b>5,350.7820</b>	<b>5,350.7820</b>	<b>0.0927</b>		<b>5,353.0984</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2028**

**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	2.3612	0.9486	16.1485	0.0537	6.8919	0.0366	6.9285	1.8282	0.0336	1.8618		5,350.7820	5,350.7820	0.0927		5,353.0984
<b>Total</b>	<b>2.3612</b>	<b>0.9486</b>	<b>16.1485</b>	<b>0.0537</b>	<b>6.8919</b>	<b>0.0366</b>	<b>6.9285</b>	<b>1.8282</b>	<b>0.0336</b>	<b>1.8618</b>		<b>5,350.7820</b>	<b>5,350.7820</b>	<b>0.0927</b>		<b>5,353.0984</b>

**3.7 Architectural Coating - 2029**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2029**

**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	2.1993	0.8695	15.1263	0.0521	6.8919	0.0340	6.9260	1.8282	0.0313	1.8595		5,195.707 2	5,195.707 2	0.0846		5,197.822 6
<b>Total</b>	<b>2.1993</b>	<b>0.8695</b>	<b>15.1263</b>	<b>0.0521</b>	<b>6.8919</b>	<b>0.0340</b>	<b>6.9260</b>	<b>1.8282</b>	<b>0.0313</b>	<b>1.8595</b>		<b>5,195.707 2</b>	<b>5,195.707 2</b>	<b>0.0846</b>		<b>5,197.822 6</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2029**

**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	2.1993	0.8695	15.1263	0.0521	6.8919	0.0340	6.9260	1.8282	0.0313	1.8595		5,195.707 2	5,195.707 2	0.0846		5,197.822 6
<b>Total</b>	<b>2.1993</b>	<b>0.8695</b>	<b>15.1263</b>	<b>0.0521</b>	<b>6.8919</b>	<b>0.0340</b>	<b>6.9260</b>	<b>1.8282</b>	<b>0.0313</b>	<b>1.8595</b>		<b>5,195.707 2</b>	<b>5,195.707 2</b>	<b>0.0846</b>		<b>5,197.822 6</b>

**3.7 Architectural Coating - 2030**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2030**

**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	2.0423	0.7982	14.2079	0.0507	6.8919	0.0317	6.9236	1.8282	0.0292	1.8573		5,059.2137	5,059.2137	0.0775		5,061.1505
<b>Total</b>	<b>2.0423</b>	<b>0.7982</b>	<b>14.2079</b>	<b>0.0507</b>	<b>6.8919</b>	<b>0.0317</b>	<b>6.9236</b>	<b>1.8282</b>	<b>0.0292</b>	<b>1.8573</b>		<b>5,059.2137</b>	<b>5,059.2137</b>	<b>0.0775</b>		<b>5,061.1505</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2030**

**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	2.0423	0.7982	14.2079	0.0507	6.8919	0.0317	6.9236	1.8282	0.0292	1.8573		5,059.2137	5,059.2137	0.0775		5,061.1505
<b>Total</b>	<b>2.0423</b>	<b>0.7982</b>	<b>14.2079</b>	<b>0.0507</b>	<b>6.8919</b>	<b>0.0317</b>	<b>6.9236</b>	<b>1.8282</b>	<b>0.0292</b>	<b>1.8573</b>		<b>5,059.2137</b>	<b>5,059.2137</b>	<b>0.0775</b>		<b>5,061.1505</b>

**3.7 Architectural Coating - 2031**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2031**

**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	1.8769	0.7309	13.3349	0.0495	6.8919	0.0295	6.9214	1.8282	0.0271	1.8553		4,939.6009	4,939.6009	0.0708		4,941.3707
<b>Total</b>	<b>1.8769</b>	<b>0.7309</b>	<b>13.3349</b>	<b>0.0495</b>	<b>6.8919</b>	<b>0.0295</b>	<b>6.9214</b>	<b>1.8282</b>	<b>0.0271</b>	<b>1.8553</b>		<b>4,939.6009</b>	<b>4,939.6009</b>	<b>0.0708</b>		<b>4,941.3707</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2031**

**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	1.8769	0.7309	13.3349	0.0495	6.8919	0.0295	6.9214	1.8282	0.0271	1.8553		4,939.6009	4,939.6009	0.0708		4,941.3707
<b>Total</b>	<b>1.8769</b>	<b>0.7309</b>	<b>13.3349</b>	<b>0.0495</b>	<b>6.8919</b>	<b>0.0295</b>	<b>6.9214</b>	<b>1.8282</b>	<b>0.0271</b>	<b>1.8553</b>		<b>4,939.6009</b>	<b>4,939.6009</b>	<b>0.0708</b>		<b>4,941.3707</b>

**3.7 Architectural Coating - 2032**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2032**

**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	1.7283	0.6729	12.5657	0.0485	6.8919	0.0274	6.9194	1.8282	0.0252	1.8534		4,835.487 2	4,835.487 2	0.0650		4,837.1118
<b>Total</b>	<b>1.7283</b>	<b>0.6729</b>	<b>12.5657</b>	<b>0.0485</b>	<b>6.8919</b>	<b>0.0274</b>	<b>6.9194</b>	<b>1.8282</b>	<b>0.0252</b>	<b>1.8534</b>		<b>4,835.487 2</b>	<b>4,835.487 2</b>	<b>0.0650</b>		<b>4,837.1118</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2032**

**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	1.7283	0.6729	12.5657	0.0485	6.8919	0.0274	6.9194	1.8282	0.0252	1.8534		4,835.487 2	4,835.487 2	0.0650		4,837.1118
<b>Total</b>	<b>1.7283</b>	<b>0.6729</b>	<b>12.5657</b>	<b>0.0485</b>	<b>6.8919</b>	<b>0.0274</b>	<b>6.9194</b>	<b>1.8282</b>	<b>0.0252</b>	<b>1.8534</b>		<b>4,835.487 2</b>	<b>4,835.487 2</b>	<b>0.0650</b>		<b>4,837.1118</b>

**3.7 Architectural Coating - 2033**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2033**

**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	1.6064	0.6252	11.9167	0.0476	6.8919	0.0256	6.9175	1.8282	0.0235	1.8517		4,745.723 2	4,745.723 2	0.0601		4,747.226 6
<b>Total</b>	<b>1.6064</b>	<b>0.6252</b>	<b>11.9167</b>	<b>0.0476</b>	<b>6.8919</b>	<b>0.0256</b>	<b>6.9175</b>	<b>1.8282</b>	<b>0.0235</b>	<b>1.8517</b>		<b>4,745.723 2</b>	<b>4,745.723 2</b>	<b>0.0601</b>		<b>4,747.226 6</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2033**

**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	1.6064	0.6252	11.9167	0.0476	6.8919	0.0256	6.9175	1.8282	0.0235	1.8517		4,745.723 2	4,745.723 2	0.0601		4,747.226 6
<b>Total</b>	<b>1.6064</b>	<b>0.6252</b>	<b>11.9167</b>	<b>0.0476</b>	<b>6.8919</b>	<b>0.0256</b>	<b>6.9175</b>	<b>1.8282</b>	<b>0.0235</b>	<b>1.8517</b>		<b>4,745.723 2</b>	<b>4,745.723 2</b>	<b>0.0601</b>		<b>4,747.226 6</b>

**3.7 Architectural Coating - 2034**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2034**

**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	1.4963	0.5845	11.3029	0.0468	6.8919	0.0239	6.9158	1.8282	0.0220	1.8501		4,668.1855	4,668.1855	0.0556		4,669.5761
<b>Total</b>	<b>1.4963</b>	<b>0.5845</b>	<b>11.3029</b>	<b>0.0468</b>	<b>6.8919</b>	<b>0.0239</b>	<b>6.9158</b>	<b>1.8282</b>	<b>0.0220</b>	<b>1.8501</b>		<b>4,668.1855</b>	<b>4,668.1855</b>	<b>0.0556</b>		<b>4,669.5761</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2034**

**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	1.4963	0.5845	11.3029	0.0468	6.8919	0.0239	6.9158	1.8282	0.0220	1.8501		4,668.1855	4,668.1855	0.0556		4,669.5761
<b>Total</b>	<b>1.4963</b>	<b>0.5845</b>	<b>11.3029</b>	<b>0.0468</b>	<b>6.8919</b>	<b>0.0239</b>	<b>6.9158</b>	<b>1.8282</b>	<b>0.0220</b>	<b>1.8501</b>		<b>4,668.1855</b>	<b>4,668.1855</b>	<b>0.0556</b>		<b>4,669.5761</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	157.9338	614.7982	1,240.340 1	5.2919	571.5329	2.6333	574.1661	152.5905	2.4453	155.0358		539,731.3 532	539,731.3 532	20.2955		540,238.7 400
Unmitigated	157.9338	614.7982	1,240.340 1	5.2919	571.5329	2.6333	574.1661	152.5905	2.4453	155.0358		539,731.3 532	539,731.3 532	20.2955		540,238.7 400

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	14,211.05	13,655.43	12522.82	35,644,537	35,644,537
Apartments Mid Rise	665.00	639.00	586.00	1,667,971	1,667,971
City Park	74.09	891.80	656.21	505,635	505,635
City Park	73.90	889.53	654.53	504,345	504,345
Convenience Market (24 Hour)	2,361.57	2,761.92	2427.04	1,361,170	1,361,170
Discount Club	8,096.66	10,411.38	6521.88	10,094,519	10,094,519
Elementary School	3,471.75	0.00	0.00	5,214,694	5,214,694
Fast Food Restaurant with Drive Thru	19,199.84	27,942.56	21003.26	14,303,895	14,303,895
Gasoline/Service Station	8,090.88	8,090.88	8090.88	3,464,556	3,464,556
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,732,278	1,732,278
General Office Building	3,291.35	734.06	313.32	5,163,982	5,163,982
Hardware/Paint Store	1,656.67	2,665.40	2217.40	2,151,622	2,151,622
High School	3,222.50	1,092.50	447.50	6,568,328	6,568,328
Home Improvement Superstore	4,961.44	9,154.61	9006.12	5,443,613	5,443,613
Hospital	5,729.55	4,412.01	3861.59	12,982,479	12,982,479
Library	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,130.19	3,130.19	3130.19	2,716,022	2,716,022
Single Family Housing	20,315.68	21,147.94	18395.08	51,733,278	51,733,278
Single Family Housing	16,869.44	17,560.52	15274.64	42,957,530	42,957,530
Strip Mall	5,008.16	4,750.52	2308.59	5,638,959	5,638,959
Strip Mall	8,358.75	7,928.74	3853.10	9,411,572	9,411,572
Strip Mall	11,009.09	10,442.74	5074.81	12,395,730	12,395,730
Supermarket	6,604.70	11,472.31	10752.02	6,791,940	6,791,940
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>150,447.70</b>	<b>163,819.48</b>	<b>131,142.43</b>	<b>238,448,655</b>	<b>238,448,655</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3





Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

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
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hospital	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Office Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Unenclosed Parking with Elevator	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.1888	49,649.1888	0.9516	0.9102	49,944.2291
NaturalGas Unmitigated	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.3569	57,137.3569	1.0951	1.0475	57,476.8957

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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	57073.1	0.6155	5.2597	2.2382	0.0336		0.4253	0.4253		0.4253	0.4253		6,714.4850	6,714.4850	0.1287	0.1231	6,754.3858
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	47.5178	5.1000e-004	4.6600e-003	3.9100e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5903	5.5903	1.1000e-004	1.0000e-004	5.6236

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Discount Club	2876.31	0.0310	0.2820	0.2369	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.3897	338.3897	6.4900e-003	6.2000e-003	340.4006
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647
Fast Food Restaurant with Drive Thru	18841.1	0.2032	1.8472	1.5516	0.0111		0.1404	0.1404		0.1404	0.1404		2,216.5963	2,216.5963	0.0425	0.0406	2,229.7684
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	10709.7	0.1155	1.0500	0.8820	6.3000e-003		0.0798	0.0798		0.0798	0.0798		1,259.9645	1,259.9645	0.0242	0.0231	1,267.4519
Hardware/Paint Store	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2396.68	0.0259	0.2350	0.1974	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.9623	281.9623	5.4000e-003	5.1700e-003	283.6379
Hospital	80173.1	0.8646	7.8601	6.6025	0.0472		0.5974	0.5974		0.5974	0.5974		9,432.1251	9,432.1251	0.1808	0.1729	9,488.1755
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
Single Family Housing	125422	1.3526	11.5585	4.9185	0.0738		0.9345	0.9345		0.9345	0.9345		14,755.5425	14,755.5425	0.2828	0.2705	14,843.2273
Single Family Housing	151044	1.6289	13.9198	5.9233	0.0889		1.1254	1.1254		1.1254	1.1254		17,769.9367	17,769.9367	0.3406	0.3258	17,875.5345
Strip Mall	1677.97	0.0181	0.1645	0.1382	9.9000e-004		0.0125	0.0125		0.0125	0.0125		197.4085	197.4085	3.7800e-003	3.6200e-003	198.5816

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	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					
Strip Mall	2800.58	0.0302	0.2746	0.2306	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.4801	329.4801	6.3200e-003	6.0400e-003	331.4380
Strip Mall	3688.57	0.0398	0.3616	0.3038	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.9494	433.9494	8.3200e-003	7.9600e-003	436.5281
Supermarket	4495.45	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.8767	528.8767	0.0101	9.7000e-003	532.0196
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.2376</b>	<b>45.6367</b>	<b>25.4930</b>	<b>0.2857</b>		<b>3.6187</b>	<b>3.6187</b>		<b>3.6187</b>	<b>3.6187</b>		<b>57,137.3569</b>	<b>57,137.3569</b>	<b>1.0951</b>	<b>1.0475</b>	<b>57,476.8957</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.37086	0.0256	0.2185	0.0930	1.3900e-003		0.0177	0.0177		0.0177	0.0177		278.9244	278.9244	5.3500e-003	5.1100e-003	280.5819
Apartments Mid Rise	50.6652	0.5464	4.6692	1.9869	0.0298		0.3775	0.3775		0.3775	0.3775		5,960.6144	5,960.6144	0.1143	0.1093	5,996.0354
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0414163	4.5000e-004	4.0600e-003	3.4100e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8725	4.8725	9.0000e-005	9.0000e-005	4.9015
Discount Club	2.50698	0.0270	0.2458	0.2065	1.4700e-003		0.0187	0.0187		0.0187	0.0187		294.9391	294.9391	5.6500e-003	5.4100e-003	296.6918
Elementary School	8.01185	0.0864	0.7855	0.6598	4.7100e-003		0.0597	0.0597		0.0597	0.0597		942.5705	942.5705	0.0181	0.0173	948.1717

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	17.8606	0.1926	1.7510	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2472	2,101.2472	0.0403	0.0385	2,113.7339
Gasoline/Service Station	0.264531	2.8500e-003	0.0259	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1212	31.1212	6.0000e-004	5.7000e-004	31.3062
Gasoline/Service Station	0.57315	6.1800e-003	0.0562	0.0472	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003		67.4294	67.4294	1.2900e-003	1.2400e-003	67.8301
General Office Building	9.13586	0.0985	0.8957	0.7524	5.3700e-003		0.0681	0.0681		0.0681	0.0681		1,074.8075	1,074.8075	0.0206	0.0197	1,081.1945
Hardware/Paint Store	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
High School	8.90205	0.0960	0.8728	0.7331	5.2400e-003		0.0663	0.0663		0.0663	0.0663		1,047.3006	1,047.3006	0.0201	0.0192	1,053.5242
Home Improvement Superstore	2.08894	0.0225	0.2048	0.1720	1.2300e-003		0.0156	0.0156		0.0156	0.0156		245.7572	245.7572	4.7100e-003	4.5100e-003	247.2176
Hospital	69.5149	0.7497	6.8152	5.7248	0.0409		0.5180	0.5180		0.5180	0.5180		8,178.2266	8,178.2266	0.1568	0.1499	8,226.8257
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
Single Family Housing	108.004	1.1648	9.9533	4.2354	0.0635		0.8047	0.8047		0.8047	0.8047		12,706.3098	12,706.3098	0.2435	0.2330	12,781.8170
Single Family Housing	130.068	1.4027	11.9866	5.1007	0.0765		0.9691	0.9691		0.9691	0.9691		15,302.0683	15,302.0683	0.2933	0.2805	15,393.0009
Strip Mall	1.46251	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0605	172.0605	3.3000e-003	3.1500e-003	173.0830
Strip Mall	2.44097	0.0263	0.2393	0.2010	1.4400e-003		0.0182	0.0182		0.0182	0.0182		287.1735	287.1735	5.5000e-003	5.2600e-003	288.8800
Strip Mall	3.21494	0.0347	0.3152	0.2648	1.8900e-003		0.0240	0.0240		0.0240	0.0240		378.2285	378.2285	7.2500e-003	6.9300e-003	380.4762

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Supermarket	4.05598	0.0437	0.3976	0.3340	2.3900e-003		0.0302	0.0302		0.0302	0.0302		477.1738	477.1738	9.1500e-003	8.7500e-003	480.0094
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.5512</b>	<b>39.6619</b>	<b>22.1969</b>	<b>0.2483</b>		<b>3.1444</b>	<b>3.1444</b>		<b>3.1444</b>	<b>3.1444</b>		<b>49,649.1888</b>	<b>49,649.1888</b>	<b>0.9516</b>	<b>0.9102</b>	<b>49,944.2291</b>

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674
Unmitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.7059	86,724.7059	1.6622	1.5900	87,240.0675
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.6021</b>	<b>87,638.6021</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.7674</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.70 59	86,724.70 59	1.6622	1.5900	87,240.06 75
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.60 21</b>	<b>87,638.60 21</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.76 74</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX J-3**  
**ORIGINAL PROJECT PEAK DAILY WINTER CONSTRUCTION EMISSIONS**

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Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24**  
**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	298.40	1000sqft	8.22	298,400.00	0
Hospital	433.40	1000sqft	11.94	433,400.00	0
Office Park	0.00	1000sqft	0.00	0.00	0
Pharmacy/Drugstore with Drive Thru	32.30	1000sqft	1.20	32,300.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,123.00	0
Parking Lot	465.20	1000sqft	10.68	465,200.00	0
Parking Lot	386.80	1000sqft	8.88	386,800.00	0
Parking Lot	154.20	1000sqft	3.54	154,200.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	78.40	1000sqft	1.80	78,400.00	0
Parking Lot	94.10	1000sqft	2.16	94,100.00	0
Parking Lot	271.80	1000sqft	6.24	271,800.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	452.00	1000sqft	10.38	452,000.00	0
Parking Lot	341.50	1000sqft	7.84	341,500.00	0

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Parking Lot	173.40	1000sqft	3.98	173,400.00	0
Parking Lot	238.70	1000sqft	5.48	238,700.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Unenclosed Parking with Elevator	173.40	1000sqft	3.98	173,400.00	0
Unenclosed Parking with Elevator	0.00	1000sqft	0.00	0.00	0
City Park	39.20	Acre	39.20	1,707,552.00	0
City Park	39.10	Acre	39.10	1,703,196.00	0
Fast Food Restaurant with Drive Thru	38.70	1000sqft	1.44	38,700.00	0
Apartments Mid Rise	2,137.00	Dwelling Unit	85.00	2,137,000.00	5706
Apartments Mid Rise	100.00	Dwelling Unit	11.76	178,600.00	267
Single Family Housing	2,134.00	Dwelling Unit	355.70	3,841,200.00	5698
Single Family Housing	1,772.00	Dwelling Unit	136.30	3,189,600.00	4731
Convenience Market (24 Hour)	3.20	1000sqft	0.12	3,200.00	0
Discount Club	193.70	1000sqft	7.12	193,700.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.12	3,000.00	0
Hardware/Paint Store	32.30	1000sqft	1.20	32,300.00	0
Home Improvement Superstore	161.40	1000sqft	5.92	161,400.00	0
Strip Mall	113.00	1000sqft	4.16	113,000.00	0
Strip Mall	188.60	1000sqft	6.92	188,600.00	0
Strip Mall	248.40	1000sqft	0.00	248,400.00	0
Supermarket	64.60	1000sqft	2.36	64,600.00	0

1.2 Other Project Characteristics

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	236.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O intensity SMUD default.

Land Use - Non-default from Project Description. Mixed Use Retail lot acreage set to 0 per User Manual.

Construction Phase - Days adjusted to match 15 year construction plan.

Off-road Equipment - Default equipment.

Trips and VMT - Based on project land use.

Grading - Grading area based on land use.

Architectural Coating - Default coating.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	125.00
tblConstructionPhase	NumDays	1,395.00	322.00
tblConstructionPhase	NumDays	990.00	229.00
tblConstructionPhase	NumDays	13,950.00	3,224.00
tblConstructionPhase	NumDays	990.00	3,224.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,237.00
tblFireplaces	NumberGas	0.00	3,906.00
tblFireplaces	NumberNoFireplace	2,237.00	0.00
tblFireplaces	NumberNoFireplace	3,906.00	0.00
tblGrading	AcresOfGrading	805.00	913.00
tblLandUse	LandUseSquareFeet	0.00	70,123.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	6.85	8.22
tblLandUse	LotAcreage	9.95	11.94
tblLandUse	LotAcreage	0.74	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.89	1.44
tblLandUse	LotAcreage	56.24	85.00
tblLandUse	LotAcreage	2.63	11.76
tblLandUse	LotAcreage	692.86	355.70
tblLandUse	LotAcreage	575.32	136.30
tblLandUse	LotAcreage	0.07	0.12
tblLandUse	LotAcreage	4.45	7.12
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	0.74	1.20

## Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

tblLandUse	LotAcreage	3.71	5.92
tblLandUse	LotAcreage	2.59	4.16
tblLandUse	LotAcreage	4.33	6.92
tblLandUse	LotAcreage	5.70	0.00
tblLandUse	LotAcreage	1.48	2.36
tblProjectCharacteristics	CO2IntensityFactor	590.31	236.9
tblTripsAndVMT	VendorTripNumber	2,207.00	1,003.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	6,812.00	4,531.00
tblTripsAndVMT	WorkerTripNumber	1,362.00	906.00

## 2.0 Emissions Summary

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### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5295	50.2541	32.5174	0.0634	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	6,145.2430	6,145.2430	1.9464	0.0000	6,193.9036
2021	6.4985	59.4076	46.4247	0.0872	9.2953	2.6649	11.9601	3.7055	2.4517	6.1572	0.0000	8,449.8618	8,449.8618	2.6629	0.0000	8,516.4352
2022	67.1153	126.5913	172.9100	0.6231	47.3938	1.4205	48.8143	12.7074	1.3400	14.0474	0.0000	63,449.8544	63,449.8544	3.0133	0.0000	63,525.1857
2023	65.1550	108.8887	158.8647	0.6052	47.3931	1.1600	48.5531	12.7071	1.0923	13.7994	0.0000	61,658.9620	61,658.9620	2.7573	0.0000	61,727.8951
2024	63.9012	105.2226	148.4067	0.5904	47.3926	1.0512	48.4438	12.7069	0.9891	13.6960	0.0000	60,196.7892	60,196.7892	2.6585	0.0000	60,263.2512
2025	62.7928	101.7568	139.0388	0.5758	47.3920	0.9448	48.3368	12.7067	0.8885	13.5952	0.0000	58,753.2557	58,753.2557	2.5719	0.0000	58,817.5525
2026	61.9196	99.5479	131.0288	0.5627	47.3916	0.9310	48.3225	12.7065	0.8755	13.5820	0.0000	57,458.2743	57,458.2743	2.4997	0.0000	57,520.7664
2027	61.0691	97.5338	123.8326	0.5510	47.3911	0.9135	48.3046	12.7064	0.8591	13.5655	0.0000	56,292.6140	56,292.6140	2.4335	0.0000	56,353.4524
2028	60.1881	95.7968	117.5301	0.5406	47.3908	0.8931	48.2839	12.7062	0.8401	13.5464	0.0000	55,262.2855	55,262.2855	2.3744	0.0000	55,321.6454
2029	59.2347	94.1555	111.5544	0.5313	47.3905	0.8732	48.2637	12.7061	0.8217	13.5278	0.0000	54,346.2988	54,346.2988	2.3174	0.0000	54,404.2336
2030	58.2173	87.8139	106.2857	0.5272	47.3902	0.4438	47.8339	12.7060	0.4248	13.1308	0.0000	53,878.8737	53,878.8737	1.7759	0.0000	53,923.2715
2031	57.2505	86.4181	101.2582	0.5200	47.3899	0.4262	47.8161	12.7059	0.4084	13.1144	0.0000	53,171.5521	53,171.5521	1.7275	0.0000	53,214.7397
2032	56.3899	85.1563	96.8659	0.5139	47.3897	0.4104	47.8001	12.7058	0.3938	13.0997	0.0000	52,559.4224	52,559.4224	1.6852	0.0000	52,601.5531
2033	55.6887	84.0649	93.1640	0.5085	47.3896	0.3964	47.7860	12.7058	0.3809	13.0866	0.0000	52,030.8050	52,030.8050	1.6495	0.0000	52,072.0414
2034	55.0735	83.0795	89.6703	0.5039	47.3894	0.3833	47.7727	12.7057	0.3687	13.0744	0.0000	51,575.1940	51,575.1940	1.6160	0.0000	51,615.5941
<b>Maximum</b>	<b>67.1153</b>	<b>126.5913</b>	<b>172.9100</b>	<b>0.6231</b>	<b>47.3938</b>	<b>2.6649</b>	<b>48.8143</b>	<b>12.7074</b>	<b>2.4517</b>	<b>14.0474</b>	<b>0.0000</b>	<b>63,449.8544</b>	<b>63,449.8544</b>	<b>3.0133</b>	<b>0.0000</b>	<b>63,525.1857</b>

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

**Mitigated Construction**

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5295	50.2541	32.5174	0.0634	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	6,145.2430	6,145.2430	1.9464	0.0000	6,193.9036
2021	6.4985	59.4076	46.4247	0.0872	9.2953	2.6649	11.9601	3.7055	2.4517	6.1572	0.0000	8,449.8618	8,449.8618	2.6629	0.0000	8,516.4352
2022	67.1153	126.5913	172.9100	0.6231	47.3938	1.4205	48.8143	12.7074	1.3400	14.0474	0.0000	63,449.8544	63,449.8544	3.0133	0.0000	63,525.1857
2023	65.1550	108.8887	158.8647	0.6052	47.3931	1.1600	48.5531	12.7071	1.0923	13.7994	0.0000	61,658.9620	61,658.9620	2.7573	0.0000	61,727.8951
2024	63.9012	105.2226	148.4067	0.5904	47.3926	1.0512	48.4438	12.7069	0.9891	13.6960	0.0000	60,196.7892	60,196.7892	2.6585	0.0000	60,263.2512
2025	62.7928	101.7568	139.0388	0.5758	47.3920	0.9448	48.3368	12.7067	0.8885	13.5952	0.0000	58,753.2557	58,753.2557	2.5719	0.0000	58,817.5525
2026	61.9196	99.5479	131.0288	0.5627	47.3916	0.9310	48.3225	12.7065	0.8755	13.5820	0.0000	57,458.2743	57,458.2743	2.4997	0.0000	57,520.7664
2027	61.0691	97.5338	123.8326	0.5510	47.3911	0.9135	48.3046	12.7064	0.8591	13.5655	0.0000	56,292.6140	56,292.6140	2.4335	0.0000	56,353.4524
2028	60.1881	95.7968	117.5301	0.5406	47.3908	0.8931	48.2839	12.7062	0.8401	13.5464	0.0000	55,262.2855	55,262.2855	2.3744	0.0000	55,321.6454
2029	59.2347	94.1555	111.5544	0.5313	47.3905	0.8732	48.2637	12.7061	0.8217	13.5278	0.0000	54,346.2988	54,346.2988	2.3174	0.0000	54,404.2336
2030	58.2173	87.8139	106.2857	0.5272	47.3902	0.4438	47.8339	12.7060	0.4248	13.1308	0.0000	53,878.8737	53,878.8737	1.7759	0.0000	53,923.2715
2031	57.2505	86.4181	101.2582	0.5200	47.3899	0.4262	47.8161	12.7059	0.4084	13.1144	0.0000	53,171.5521	53,171.5521	1.7275	0.0000	53,214.7397
2032	56.3899	85.1563	96.8659	0.5139	47.3897	0.4104	47.8001	12.7058	0.3938	13.0997	0.0000	52,559.4224	52,559.4224	1.6852	0.0000	52,601.5530
2033	55.6887	84.0649	93.1640	0.5085	47.3896	0.3964	47.7860	12.7058	0.3809	13.0866	0.0000	52,030.8050	52,030.8050	1.6495	0.0000	52,072.0413
2034	55.0735	83.0795	89.6703	0.5039	47.3894	0.3833	47.7727	12.7057	0.3687	13.0744	0.0000	51,575.1940	51,575.1940	1.6160	0.0000	51,615.5941
<b>Maximum</b>	<b>67.1153</b>	<b>126.5913</b>	<b>172.9100</b>	<b>0.6231</b>	<b>47.3938</b>	<b>2.6649</b>	<b>48.8143</b>	<b>12.7074</b>	<b>2.4517</b>	<b>14.0474</b>	<b>0.0000</b>	<b>63,449.8544</b>	<b>63,449.8544</b>	<b>3.0133</b>	<b>0.0000</b>	<b>63,525.1857</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.35 69	57,137.35 69	1.0951	1.0475	57,476.89 57
Mobile	108.7762	629.7536	1,178.580 4	4.8023	571.5329	2.6513	574.1842	152.5905	2.4625	155.0530		490,442.8 622	490,442.8 622	21.0241		490,968.4 646
<b>Total</b>	<b>427.5013</b>	<b>749.1568</b>	<b>1,738.626 8</b>	<b>5.5484</b>	<b>571.5329</b>	<b>14.5753</b>	<b>586.1081</b>	<b>152.5905</b>	<b>14.3865</b>	<b>166.9770</b>	<b>0.0000</b>	<b>635,218.8 212</b>	<b>635,218.8 212</b>	<b>24.6536</b>	<b>2.6375</b>	<b>636,621.1 277</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.60 21	87,638.60 21	2.5344	1.5900	88,175.76 74
Energy	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.18 88	49,649.18 88	0.9516	0.9102	49,944.22 91
Mobile	108.7762	629.7536	1,178.580 4	4.8023	571.5329	2.6513	574.1842	152.5905	2.4625	155.0530		490,442.8 622	490,442.8 622	21.0241		490,968.4 646
<b>Total</b>	<b>426.8149</b>	<b>743.1820</b>	<b>1,735.330 7</b>	<b>5.5110</b>	<b>571.5329</b>	<b>14.1010</b>	<b>585.6339</b>	<b>152.5905</b>	<b>13.9122</b>	<b>166.5027</b>	<b>0.0000</b>	<b>627,730.6 530</b>	<b>627,730.6 530</b>	<b>24.5101</b>	<b>2.5002</b>	<b>629,088.4 611</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.16	0.80	0.19	0.67	0.00	3.25	0.08	0.00	3.30	0.28	0.00	1.18	1.18	0.58	5.20	1.18

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	6/23/2020	5	125	
3	Grading	Grading	6/24/2020	9/16/2021	5	322	
4	Paving	Paving	9/16/2021	8/2/2022	5	229	
5	Building Construction	Building Construction	8/3/2022	12/11/2034	5	3224	
6	Architectural Coating	Architectural Coating	8/22/2022	12/28/2034	5	3224	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 913

Acres of Paving: 84.62

Residential Indoor: 18,926,460; Residential Outdoor: 6,308,820; Non-Residential Indoor: 3,543,935; Non-Residential Outdoor: 1,181,312; Striped Parking Area: 221,148 (Architectural Coating – sqft)

#### OffRoad Equipment

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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
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
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	4,531.00	1,003.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	906.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2020**

**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	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.3 Site Preparation - 2020**

**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	0.0714	0.0509	0.5032	1.2600e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		125.4399	125.4399	3.6100e-003		125.5301
<b>Total</b>	<b>0.0714</b>	<b>0.0509</b>	<b>0.5032</b>	<b>1.2600e-003</b>	<b>0.1369</b>	<b>9.5000e-004</b>	<b>0.1379</b>	<b>0.0363</b>	<b>8.8000e-004</b>	<b>0.0372</b>		<b>125.4399</b>	<b>125.4399</b>	<b>3.6100e-003</b>		<b>125.5301</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>



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**3.3 Site Preparation - 2020**

**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	0.0714	0.0509	0.5032	1.2600e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		125.4399	125.4399	3.6100e-003		125.5301
<b>Total</b>	<b>0.0714</b>	<b>0.0509</b>	<b>0.5032</b>	<b>1.2600e-003</b>	<b>0.1369</b>	<b>9.5000e-004</b>	<b>0.1379</b>	<b>0.0363</b>	<b>8.8000e-004</b>	<b>0.0372</b>		<b>125.4399</b>	<b>125.4399</b>	<b>3.6100e-003</b>		<b>125.5301</b>

**3.4 Grading - 2020**

**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					9.0290	0.0000	9.0290	3.6349	0.0000	3.6349			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>9.0290</b>	<b>2.1739</b>	<b>11.2029</b>	<b>3.6349</b>	<b>2.0000</b>	<b>5.6349</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.4 Grading - 2020**

**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	0.0794	0.0565	0.5591	1.4000e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		139.3777	139.3777	4.0100e-003		139.4779
<b>Total</b>	<b>0.0794</b>	<b>0.0565</b>	<b>0.5591</b>	<b>1.4000e-003</b>	<b>0.1521</b>	<b>1.0600e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.7000e-004</b>	<b>0.0413</b>		<b>139.3777</b>	<b>139.3777</b>	<b>4.0100e-003</b>		<b>139.4779</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0290	0.0000	9.0290	3.6349	0.0000	3.6349			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>9.0290</b>	<b>2.1739</b>	<b>11.2029</b>	<b>3.6349</b>	<b>2.0000</b>	<b>5.6349</b>	<b>0.0000</b>	<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.4 Grading - 2020**

**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	0.0794	0.0565	0.5591	1.4000e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		139.3777	139.3777	4.0100e-003		139.4779
<b>Total</b>	<b>0.0794</b>	<b>0.0565</b>	<b>0.5591</b>	<b>1.4000e-003</b>	<b>0.1521</b>	<b>1.0600e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.7000e-004</b>	<b>0.0413</b>		<b>139.3777</b>	<b>139.3777</b>	<b>4.0100e-003</b>		<b>139.4779</b>

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0290	0.0000	9.0290	3.6349	0.0000	3.6349			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>9.0290</b>	<b>1.9853</b>	<b>11.0144</b>	<b>3.6349</b>	<b>1.8265</b>	<b>5.4614</b>		<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.4 Grading - 2021**

**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	0.0738	0.0507	0.5103	1.3500e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		134.6329	134.6329	3.5900e-003		134.7226
<b>Total</b>	<b>0.0738</b>	<b>0.0507</b>	<b>0.5103</b>	<b>1.3500e-003</b>	<b>0.1521</b>	<b>1.0300e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.5000e-004</b>	<b>0.0413</b>		<b>134.6329</b>	<b>134.6329</b>	<b>3.5900e-003</b>		<b>134.7226</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0290	0.0000	9.0290	3.6349	0.0000	3.6349			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>9.0290</b>	<b>1.9853</b>	<b>11.0144</b>	<b>3.6349</b>	<b>1.8265</b>	<b>5.4614</b>	<b>0.0000</b>	<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.4 Grading - 2021**

**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	0.0738	0.0507	0.5103	1.3500e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		134.6329	134.6329	3.5900e-003		134.7226
<b>Total</b>	<b>0.0738</b>	<b>0.0507</b>	<b>0.5103</b>	<b>1.3500e-003</b>	<b>0.1521</b>	<b>1.0300e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.5000e-004</b>	<b>0.0413</b>		<b>134.6329</b>	<b>134.6329</b>	<b>3.5900e-003</b>		<b>134.7226</b>

**3.5 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9226					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1782</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Paving - 2021**

**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	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419
<b>Total</b>	<b>0.0554</b>	<b>0.0380</b>	<b>0.3827</b>	<b>1.0100e-003</b>	<b>0.1141</b>	<b>7.7000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.1000e-004</b>	<b>0.0310</b>		<b>100.9746</b>	<b>100.9746</b>	<b>2.6900e-003</b>		<b>101.0419</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9226					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.1782</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Paving - 2021**

**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	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419
<b>Total</b>	<b>0.0554</b>	<b>0.0380</b>	<b>0.3827</b>	<b>1.0100e-003</b>	<b>0.1141</b>	<b>7.7000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.1000e-004</b>	<b>0.0310</b>		<b>100.9746</b>	<b>100.9746</b>	<b>2.6900e-003</b>		<b>101.0419</b>

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9226					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0254</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Paving - 2022**

**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	0.0518	0.0342	0.3510	9.8000e-004	0.1141	7.5000e-004	0.1149	0.0303	6.9000e-004	0.0310		97.3592	97.3592	2.4100e-003		97.4196
<b>Total</b>	<b>0.0518</b>	<b>0.0342</b>	<b>0.3510</b>	<b>9.8000e-004</b>	<b>0.1141</b>	<b>7.5000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>6.9000e-004</b>	<b>0.0310</b>		<b>97.3592</b>	<b>97.3592</b>	<b>2.4100e-003</b>		<b>97.4196</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9226					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0254</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Paving - 2022**

**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	0.0518	0.0342	0.3510	9.8000e-004	0.1141	7.5000e-004	0.1149	0.0303	6.9000e-004	0.0310		97.3592	97.3592	2.4100e-003		97.4196
<b>Total</b>	<b>0.0518</b>	<b>0.0342</b>	<b>0.3510</b>	<b>9.8000e-004</b>	<b>0.1141</b>	<b>7.5000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>6.9000e-004</b>	<b>0.0310</b>		<b>97.3592</b>	<b>97.3592</b>	<b>2.4100e-003</b>		<b>97.4196</b>

**3.6 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2022**

**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	3.0474	97.1815	27.5150	0.2389	6.0346	0.2579	6.2925	1.7364	0.2467	1.9831		25,324.59 54	25,324.59 54	1.5082		25,362.30 06
Worker	15.6391	10.3218	106.0189	0.2953	34.4673	0.2266	34.6939	9.1428	0.2088	9.3515		29,408.97 96	29,408.97 96	0.7290		29,427.20 48
<b>Total</b>	<b>18.6865</b>	<b>107.5033</b>	<b>133.5340</b>	<b>0.5342</b>	<b>40.5019</b>	<b>0.4845</b>	<b>40.9863</b>	<b>10.8792</b>	<b>0.4554</b>	<b>11.3346</b>		<b>54,733.57 50</b>	<b>54,733.57 50</b>	<b>2.2372</b>		<b>54,789.50 54</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.333 6</b>	<b>2,554.333 6</b>	<b>0.6120</b>		<b>2,569.632 2</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2022**

**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	3.0474	97.1815	27.5150	0.2389	6.0346	0.2579	6.2925	1.7364	0.2467	1.9831		25,324.59 54	25,324.59 54	1.5082		25,362.30 06
Worker	15.6391	10.3218	106.0189	0.2953	34.4673	0.2266	34.6939	9.1428	0.2088	9.3515		29,408.97 96	29,408.97 96	0.7290		29,427.20 48
<b>Total</b>	<b>18.6865</b>	<b>107.5033</b>	<b>133.5340</b>	<b>0.5342</b>	<b>40.5019</b>	<b>0.4845</b>	<b>40.9863</b>	<b>10.8792</b>	<b>0.4554</b>	<b>11.3346</b>		<b>54,733.57 50</b>	<b>54,733.57 50</b>	<b>2.2372</b>		<b>54,789.50 54</b>

**3.6 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.209 9</b>	<b>2,555.209 9</b>	<b>0.6079</b>		<b>2,570.406 1</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.4153	82.0593	24.2480	0.2344	6.0339	0.1241	6.1580	1.7362	0.1187	1.8549		24,857.52 30	24,857.52 30	1.3504		24,891.28 27
Worker	14.6542	9.2849	97.1382	0.2841	34.4673	0.2211	34.6884	9.1428	0.2037	9.3464		28,305.02 54	28,305.02 54	0.6519		28,321.32 29
<b>Total</b>	<b>17.0696</b>	<b>91.3442</b>	<b>121.3862</b>	<b>0.5184</b>	<b>40.5012</b>	<b>0.3452</b>	<b>40.8464</b>	<b>10.8790</b>	<b>0.3223</b>	<b>11.2013</b>		<b>53,162.54 84</b>	<b>53,162.54 84</b>	<b>2.0023</b>		<b>53,212.60 56</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.209 9</b>	<b>2,555.209 9</b>	<b>0.6079</b>		<b>2,570.406 1</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.4153	82.0593	24.2480	0.2344	6.0339	0.1241	6.1580	1.7362	0.1187	1.8549		24,857.52 30	24,857.52 30	1.3504		24,891.28 27
Worker	14.6542	9.2849	97.1382	0.2841	34.4673	0.2211	34.6884	9.1428	0.2037	9.3464		28,305.02 54	28,305.02 54	0.6519		28,321.32 29
<b>Total</b>	<b>17.0696</b>	<b>91.3442</b>	<b>121.3862</b>	<b>0.5184</b>	<b>40.5012</b>	<b>0.3452</b>	<b>40.8464</b>	<b>10.8790</b>	<b>0.3223</b>	<b>11.2013</b>		<b>53,162.54 84</b>	<b>53,162.54 84</b>	<b>2.0023</b>		<b>53,212.60 56</b>

**3.6 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.698 9</b>	<b>2,555.698 9</b>	<b>0.6044</b>		<b>2,570.807 7</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.3000	80.4911	22.6608	0.2329	6.0333	0.1175	6.1509	1.7360	0.1124	1.8483		24,714.65 27	24,714.65 27	1.3340		24,748.00 23
Worker	13.7989	8.3911	89.8107	0.2730	34.4673	0.2162	34.6835	9.1428	0.1991	9.3419		27,205.15 87	27,205.15 87	0.5869		27,219.83 20
<b>Total</b>	<b>16.0989</b>	<b>88.8822</b>	<b>112.4715</b>	<b>0.5059</b>	<b>40.5006</b>	<b>0.3337</b>	<b>40.8344</b>	<b>10.8787</b>	<b>0.3115</b>	<b>11.1902</b>		<b>51,919.81 14</b>	<b>51,919.81 14</b>	<b>1.9209</b>		<b>51,967.83 43</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.698 9	2,555.698 9	0.6044		2,570.807 7
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.698 9</b>	<b>2,555.698 9</b>	<b>0.6044</b>		<b>2,570.807 7</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.3000	80.4911	22.6608	0.2329	6.0333	0.1175	6.1509	1.7360	0.1124	1.8483		24,714.65 27	24,714.65 27	1.3340		24,748.00 23
Worker	13.7989	8.3911	89.8107	0.2730	34.4673	0.2162	34.6835	9.1428	0.1991	9.3419		27,205.15 87	27,205.15 87	0.5869		27,219.83 20
<b>Total</b>	<b>16.0989</b>	<b>88.8822</b>	<b>112.4715</b>	<b>0.5059</b>	<b>40.5006</b>	<b>0.3337</b>	<b>40.8344</b>	<b>10.8787</b>	<b>0.3115</b>	<b>11.1902</b>		<b>51,919.81 14</b>	<b>51,919.81 14</b>	<b>1.9209</b>		<b>51,967.83 43</b>

**3.6 Building Construction - 2025**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2025**

**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	2.2044	78.9994	21.4458	0.2315	6.0328	0.1111	6.1439	1.7358	0.1063	1.8420		24,576.8166	24,576.8166	1.3182		24,609.7715
Worker	13.0499	7.6188	83.0857	0.2620	34.4673	0.2122	34.6795	9.1428	0.1954	9.3381		26,116.3912	26,116.3912	0.5312		26,129.6704
<b>Total</b>	<b>15.2543</b>	<b>86.6182</b>	<b>104.5315</b>	<b>0.4935</b>	<b>40.5001</b>	<b>0.3233</b>	<b>40.8234</b>	<b>10.8785</b>	<b>0.3016</b>	<b>11.1802</b>		<b>50,693.2078</b>	<b>50,693.2078</b>	<b>1.8494</b>		<b>50,739.4419</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2025**

**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	2.2044	78.9994	21.4458	0.2315	6.0328	0.1111	6.1439	1.7358	0.1063	1.8420		24,576.8166	24,576.8166	1.3182		24,609.7715
Worker	13.0499	7.6188	83.0857	0.2620	34.4673	0.2122	34.6795	9.1428	0.1954	9.3381		26,116.3912	26,116.3912	0.5312		26,129.6704
<b>Total</b>	<b>15.2543</b>	<b>86.6182</b>	<b>104.5315</b>	<b>0.4935</b>	<b>40.5001</b>	<b>0.3233</b>	<b>40.8234</b>	<b>10.8785</b>	<b>0.3016</b>	<b>11.1802</b>		<b>50,693.2078</b>	<b>50,693.2078</b>	<b>1.8494</b>		<b>50,739.4419</b>

**3.6 Building Construction - 2026**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2026**

**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	2.1201	77.5815	20.4546	0.2301	6.0323	0.1048	6.1371	1.7356	0.1002	1.8358		24,446.0257	24,446.0257	1.3039		24,478.6238
Worker	12.3925	6.9596	77.2365	0.2522	34.4673	0.2060	34.6733	9.1428	0.1896	9.3324		25,146.1967	25,146.1967	0.4829		25,158.2693
<b>Total</b>	<b>14.5125</b>	<b>84.5411</b>	<b>97.6911</b>	<b>0.4823</b>	<b>40.4996</b>	<b>0.3107</b>	<b>40.8103</b>	<b>10.8784</b>	<b>0.2898</b>	<b>11.1681</b>		<b>49,592.2225</b>	<b>49,592.2225</b>	<b>1.7868</b>		<b>49,636.8931</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2026**

**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	2.1201	77.5815	20.4546	0.2301	6.0323	0.1048	6.1371	1.7356	0.1002	1.8358		24,446.0257	24,446.0257	1.3039		24,478.6238
Worker	12.3925	6.9596	77.2365	0.2522	34.4673	0.2060	34.6733	9.1428	0.1896	9.3324		25,146.1967	25,146.1967	0.4829		25,158.2693
<b>Total</b>	<b>14.5125</b>	<b>84.5411</b>	<b>97.6911</b>	<b>0.4823</b>	<b>40.4996</b>	<b>0.3107</b>	<b>40.8103</b>	<b>10.8784</b>	<b>0.2898</b>	<b>11.1681</b>		<b>49,592.2225</b>	<b>49,592.2225</b>	<b>1.7868</b>		<b>49,636.8931</b>

**3.6 Building Construction - 2027**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2027**

**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	2.0460	76.2776	19.5924	0.2289	6.0319	0.0994	6.1313	1.7354	0.0951	1.8305		24,322.9605	24,322.9605	1.2900		24,355.2097
Worker	11.7454	6.3678	71.9580	0.2435	34.4673	0.1958	34.6631	9.1428	0.1802	9.3230		24,277.3357	24,277.3357	0.4394		24,288.3207
<b>Total</b>	<b>13.7914</b>	<b>82.6454</b>	<b>91.5504</b>	<b>0.4723</b>	<b>40.4992</b>	<b>0.2953</b>	<b>40.7944</b>	<b>10.8782</b>	<b>0.2753</b>	<b>11.1535</b>		<b>48,600.2961</b>	<b>48,600.2961</b>	<b>1.7294</b>		<b>48,643.5304</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2027**

**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	2.0460	76.2776	19.5924	0.2289	6.0319	0.0994	6.1313	1.7354	0.0951	1.8305		24,322.9605	24,322.9605	1.2900		24,355.2097
Worker	11.7454	6.3678	71.9580	0.2435	34.4673	0.1958	34.6631	9.1428	0.1802	9.3230		24,277.3357	24,277.3357	0.4394		24,288.3207
<b>Total</b>	<b>13.7914</b>	<b>82.6454</b>	<b>91.5504</b>	<b>0.4723</b>	<b>40.4992</b>	<b>0.2953</b>	<b>40.7944</b>	<b>10.8782</b>	<b>0.2753</b>	<b>11.1535</b>		<b>48,600.2961</b>	<b>48,600.2961</b>	<b>1.7294</b>		<b>48,643.5304</b>

**3.6 Building Construction - 2028**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2028**

**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	1.9803	75.1713	18.8617	0.2278	6.0316	0.0947	6.1263	1.7353	0.0906	1.8259		24,218.4178	24,218.4178	1.2757		24,250.3113
Worker	11.0660	5.8421	67.3147	0.2357	34.4673	0.1828	34.6501	9.1428	0.1682	9.3110		23,505.8190	23,505.8190	0.4020		23,515.8685
<b>Total</b>	<b>13.0463</b>	<b>81.0134</b>	<b>86.1764</b>	<b>0.4635</b>	<b>40.4988</b>	<b>0.2775</b>	<b>40.7763</b>	<b>10.8781</b>	<b>0.2587</b>	<b>11.1368</b>		<b>47,724.2368</b>	<b>47,724.2368</b>	<b>1.6777</b>		<b>47,766.1797</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2028**

**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	1.9803	75.1713	18.8617	0.2278	6.0316	0.0947	6.1263	1.7353	0.0906	1.8259		24,218.4178	24,218.4178	1.2757		24,250.3113
Worker	11.0660	5.8421	67.3147	0.2357	34.4673	0.1828	34.6501	9.1428	0.1682	9.3110		23,505.8190	23,505.8190	0.4020		23,515.8685
<b>Total</b>	<b>13.0463</b>	<b>81.0134</b>	<b>86.1764</b>	<b>0.4635</b>	<b>40.4988</b>	<b>0.2775</b>	<b>40.7763</b>	<b>10.8781</b>	<b>0.2587</b>	<b>11.1368</b>		<b>47,724.2368</b>	<b>47,724.2368</b>	<b>1.6777</b>		<b>47,766.1797</b>

**3.6 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2029**

**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	1.9210	74.1190	18.2477	0.2269	6.0312	0.0899	6.1211	1.7352	0.0859	1.8211		24,123.24 47	24,123.24 47	1.2615		24,154.78 33
Worker	10.3208	5.3513	62.8464	0.2288	34.4673	0.1702	34.6375	9.1428	0.1567	9.2994		22,821.78 25	22,821.78 25	0.3663		22,830.94 01
<b>Total</b>	<b>12.2419</b>	<b>79.4703</b>	<b>81.0941</b>	<b>0.4556</b>	<b>40.4985</b>	<b>0.2601</b>	<b>40.7586</b>	<b>10.8780</b>	<b>0.2426</b>	<b>11.1206</b>		<b>46,945.02 73</b>	<b>46,945.02 73</b>	<b>1.6278</b>		<b>46,985.72 34</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2029**

**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	1.9210	74.1190	18.2477	0.2269	6.0312	0.0899	6.1211	1.7352	0.0859	1.8211		24,123.24 47	24,123.24 47	1.2615		24,154.78 33
Worker	10.3208	5.3513	62.8464	0.2288	34.4673	0.1702	34.6375	9.1428	0.1567	9.2994		22,821.78 25	22,821.78 25	0.3663		22,830.94 01
<b>Total</b>	<b>12.2419</b>	<b>79.4703</b>	<b>81.0941</b>	<b>0.4556</b>	<b>40.4985</b>	<b>0.2601</b>	<b>40.7586</b>	<b>10.8780</b>	<b>0.2426</b>	<b>11.1206</b>		<b>46,945.02 73</b>	<b>46,945.02 73</b>	<b>1.6278</b>		<b>46,985.72 34</b>

**3.6 Building Construction - 2030**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2030**

**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	1.8676	73.1332	17.7411	0.2260	6.0309	0.0850	6.1160	1.7351	0.0813	1.8164		24,038.0175	24,038.0175	1.2468		24,069.1878
Worker	9.5995	4.9083	58.8271	0.2227	34.4673	0.1586	34.6259	9.1428	0.1459	9.2887		22,219.0352	22,219.0352	0.3346		22,227.3993
<b>Total</b>	<b>11.4671</b>	<b>78.0416</b>	<b>76.5682</b>	<b>0.4487</b>	<b>40.4982</b>	<b>0.2436</b>	<b>40.7418</b>	<b>10.8779</b>	<b>0.2272</b>	<b>11.1051</b>		<b>46,257.0527</b>	<b>46,257.0527</b>	<b>1.5814</b>		<b>46,296.5871</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2030**

**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	1.8676	73.1332	17.7411	0.2260	6.0309	0.0850	6.1160	1.7351	0.0813	1.8164		24,038.0175	24,038.0175	1.2468		24,069.1878
Worker	9.5995	4.9083	58.8271	0.2227	34.4673	0.1586	34.6259	9.1428	0.1459	9.2887		22,219.0352	22,219.0352	0.3346		22,227.3993
<b>Total</b>	<b>11.4671</b>	<b>78.0416</b>	<b>76.5682</b>	<b>0.4487</b>	<b>40.4982</b>	<b>0.2436</b>	<b>40.7418</b>	<b>10.8779</b>	<b>0.2272</b>	<b>11.1051</b>		<b>46,257.0527</b>	<b>46,257.0527</b>	<b>1.5814</b>		<b>46,296.5871</b>

**3.6 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2031**

**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	1.8224	72.2395	17.3242	0.2253	6.0307	0.0807	6.1114	1.7350	0.0772	1.8122		23,965.38 18	23,965.38 18	1.2341		23,996.23 45
Worker	8.8315	4.4899	54.9848	0.2174	34.4673	0.1475	34.6148	9.1428	0.1357	9.2785		21,690.110 7	21,690.110 7	0.3048		21,697.73 10
<b>Total</b>	<b>10.6539</b>	<b>76.7294</b>	<b>72.3089</b>	<b>0.4426</b>	<b>40.4980</b>	<b>0.2282</b>	<b>40.7262</b>	<b>10.8778</b>	<b>0.2129</b>	<b>11.0906</b>		<b>45,655.49 26</b>	<b>45,655.49 26</b>	<b>1.5389</b>		<b>45,693.96 56</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2031**

**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	1.8224	72.2395	17.3242	0.2253	6.0307	0.0807	6.1114	1.7350	0.0772	1.8122		23,965.38 18	23,965.38 18	1.2341		23,996.23 45
Worker	8.8315	4.4899	54.9848	0.2174	34.4673	0.1475	34.6148	9.1428	0.1357	9.2785		21,690.110 7	21,690.110 7	0.3048		21,697.73 10
<b>Total</b>	<b>10.6539</b>	<b>76.7294</b>	<b>72.3089</b>	<b>0.4426</b>	<b>40.4980</b>	<b>0.2282</b>	<b>40.7262</b>	<b>10.8778</b>	<b>0.2129</b>	<b>11.0906</b>		<b>45,655.49 26</b>	<b>45,655.49 26</b>	<b>1.5389</b>		<b>45,693.96 56</b>

**3.6 Building Construction - 2032**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2032**

**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	1.7849	71.4104	16.9930	0.2247	6.0305	0.0773	6.1078	1.7349	0.0739	1.8088		23,905.91 49	23,905.91 49	1.2229		23,936.48 78
Worker	8.1455	4.1294	51.6004	0.2127	34.4673	0.1372	34.6045	9.1428	0.1262	9.2690		21,229.54 15	21,229.54 15	0.2789		21,236.51 41
<b>Total</b>	<b>9.9304</b>	<b>75.5397</b>	<b>68.5933</b>	<b>0.4374</b>	<b>40.4978</b>	<b>0.2145</b>	<b>40.7123</b>	<b>10.8777</b>	<b>0.2001</b>	<b>11.0778</b>		<b>45,135.45 64</b>	<b>45,135.45 64</b>	<b>1.5018</b>		<b>45,173.00 19</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2032**

**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	1.7849	71.4104	16.9930	0.2247	6.0305	0.0773	6.1078	1.7349	0.0739	1.8088		23,905.91 49	23,905.91 49	1.2229		23,936.48 78
Worker	8.1455	4.1294	51.6004	0.2127	34.4673	0.1372	34.6045	9.1428	0.1262	9.2690		21,229.54 15	21,229.54 15	0.2789		21,236.51 41
<b>Total</b>	<b>9.9304</b>	<b>75.5397</b>	<b>68.5933</b>	<b>0.4374</b>	<b>40.4978</b>	<b>0.2145</b>	<b>40.7123</b>	<b>10.8777</b>	<b>0.2001</b>	<b>11.0778</b>		<b>45,135.45 64</b>	<b>45,135.45 64</b>	<b>1.5018</b>		<b>45,173.00 19</b>

**3.6 Building Construction - 2033**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2033**

**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	1.7532	70.6731	16.7116	0.2242	6.0303	0.0744	6.1047	1.7349	0.0711	1.8060		23,853.7064	23,853.7064	1.2130		23,884.0322
Worker	7.5876	3.8343	48.7499	0.2087	34.4673	0.1280	34.5953	9.1428	0.1177	9.2605		20,832.5195	20,832.5195	0.2573		20,838.9528
<b>Total</b>	<b>9.3408</b>	<b>74.5073</b>	<b>65.4615</b>	<b>0.4329</b>	<b>40.4976</b>	<b>0.2024</b>	<b>40.7000</b>	<b>10.8776</b>	<b>0.1889</b>	<b>11.0665</b>		<b>44,686.2259</b>	<b>44,686.2259</b>	<b>1.4704</b>		<b>44,722.9850</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2033**

**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	1.7532	70.6731	16.7116	0.2242	6.0303	0.0744	6.1047	1.7349	0.0711	1.8060		23,853.70 64	23,853.70 64	1.2130		23,884.03 22
Worker	7.5876	3.8343	48.7499	0.2087	34.4673	0.1280	34.5953	9.1428	0.1177	9.2605		20,832.51 95	20,832.51 95	0.2573		20,838.95 28
<b>Total</b>	<b>9.3408</b>	<b>74.5073</b>	<b>65.4615</b>	<b>0.4329</b>	<b>40.4976</b>	<b>0.2024</b>	<b>40.7000</b>	<b>10.8776</b>	<b>0.1889</b>	<b>11.0665</b>		<b>44,686.22 59</b>	<b>44,686.22 59</b>	<b>1.4704</b>		<b>44,722.98 50</b>

**3.6 Building Construction - 2034**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2034**

**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	1.7239	69.9896	16.4552	0.2237	6.0302	0.0716	6.1018	1.7348	0.0684	1.8032		23,809.6833	23,809.6833	1.2038		23,839.7772
Worker	7.0993	3.5826	46.0520	0.2052	34.4673	0.1194	34.5867	9.1428	0.1098	9.2526		20,489.5169	20,489.5169	0.2372		20,495.4466
<b>Total</b>	<b>8.8232</b>	<b>73.5722</b>	<b>62.5072</b>	<b>0.4290</b>	<b>40.4975</b>	<b>0.1910</b>	<b>40.6884</b>	<b>10.8776</b>	<b>0.1782</b>	<b>11.0558</b>		<b>44,299.2002</b>	<b>44,299.2002</b>	<b>1.4410</b>		<b>44,335.2238</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Building Construction - 2034**

**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	1.7239	69.9896	16.4552	0.2237	6.0302	0.0716	6.1018	1.7348	0.0684	1.8032		23,809.6833	23,809.6833	1.2038		23,839.7772
Worker	7.0993	3.5826	46.0520	0.2052	34.4673	0.1194	34.5867	9.1428	0.1098	9.2526		20,489.5169	20,489.5169	0.2372		20,495.4466
<b>Total</b>	<b>8.8232</b>	<b>73.5722</b>	<b>62.5072</b>	<b>0.4290</b>	<b>40.4975</b>	<b>0.1910</b>	<b>40.6884</b>	<b>10.8776</b>	<b>0.1782</b>	<b>11.0558</b>		<b>44,299.2002</b>	<b>44,299.2002</b>	<b>1.4410</b>		<b>44,335.2238</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>43.5954</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2022**

**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	3.1271	2.0639	21.1991	0.0590	6.8919	0.0453	6.9372	1.8282	0.0417	1.8699		5,880.4978	5,880.4978	0.1458		5,884.1420
<b>Total</b>	<b>3.1271</b>	<b>2.0639</b>	<b>21.1991</b>	<b>0.0590</b>	<b>6.8919</b>	<b>0.0453</b>	<b>6.9372</b>	<b>1.8282</b>	<b>0.0417</b>	<b>1.8699</b>		<b>5,880.4978</b>	<b>5,880.4978</b>	<b>0.1458</b>		<b>5,884.1420</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>43.5954</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2022**

**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	3.1271	2.0639	21.1991	0.0590	6.8919	0.0453	6.9372	1.8282	0.0417	1.8699		5,880.4978	5,880.4978	0.1458		5,884.1420
<b>Total</b>	<b>3.1271</b>	<b>2.0639</b>	<b>21.1991</b>	<b>0.0590</b>	<b>6.8919</b>	<b>0.0453</b>	<b>6.9372</b>	<b>1.8282</b>	<b>0.0417</b>	<b>1.8699</b>		<b>5,880.4978</b>	<b>5,880.4978</b>	<b>0.1458</b>		<b>5,884.1420</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>43.5825</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.9302	1.8566	19.4234	0.0568	6.8919	0.0442	6.9361	1.8282	0.0407	1.8689		5,659.7557	5,659.7557	0.1304		5,663.0145
<b>Total</b>	<b>2.9302</b>	<b>1.8566</b>	<b>19.4234</b>	<b>0.0568</b>	<b>6.8919</b>	<b>0.0442</b>	<b>6.9361</b>	<b>1.8282</b>	<b>0.0407</b>	<b>1.8689</b>		<b>5,659.7557</b>	<b>5,659.7557</b>	<b>0.1304</b>		<b>5,663.0145</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>43.5825</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.9302	1.8566	19.4234	0.0568	6.8919	0.0442	6.9361	1.8282	0.0407	1.8689		5,659.7557	5,659.7557	0.1304		5,663.0145
<b>Total</b>	<b>2.9302</b>	<b>1.8566</b>	<b>19.4234</b>	<b>0.0568</b>	<b>6.8919</b>	<b>0.0442</b>	<b>6.9361</b>	<b>1.8282</b>	<b>0.0407</b>	<b>1.8689</b>		<b>5,659.7557</b>	<b>5,659.7557</b>	<b>0.1304</b>		<b>5,663.0145</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>43.5716</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.7592	1.6779	17.9582	0.0546	6.8919	0.0432	6.9352	1.8282	0.0398	1.8680		5,439.8309	5,439.8309	0.1174		5,442.7649
<b>Total</b>	<b>2.7592</b>	<b>1.6779</b>	<b>17.9582</b>	<b>0.0546</b>	<b>6.8919</b>	<b>0.0432</b>	<b>6.9352</b>	<b>1.8282</b>	<b>0.0398</b>	<b>1.8680</b>		<b>5,439.8309</b>	<b>5,439.8309</b>	<b>0.1174</b>		<b>5,442.7649</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>43.5716</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.7592	1.6779	17.9582	0.0546	6.8919	0.0432	6.9352	1.8282	0.0398	1.8680		5,439.8309	5,439.8309	0.1174		5,442.7649
<b>Total</b>	<b>2.7592</b>	<b>1.6779</b>	<b>17.9582</b>	<b>0.0546</b>	<b>6.8919</b>	<b>0.0432</b>	<b>6.9352</b>	<b>1.8282</b>	<b>0.0398</b>	<b>1.8680</b>		<b>5,439.8309</b>	<b>5,439.8309</b>	<b>0.1174</b>		<b>5,442.7649</b>

**3.7 Architectural Coating - 2025**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2025**

**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	2.6094	1.5234	16.6135	0.0524	6.8919	0.0424	6.9344	1.8282	0.0391	1.8672		5,222.1255	5,222.1255	0.1062		5,224.7807
<b>Total</b>	<b>2.6094</b>	<b>1.5234</b>	<b>16.6135</b>	<b>0.0524</b>	<b>6.8919</b>	<b>0.0424</b>	<b>6.9344</b>	<b>1.8282</b>	<b>0.0391</b>	<b>1.8672</b>		<b>5,222.1255</b>	<b>5,222.1255</b>	<b>0.1062</b>		<b>5,224.7807</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2025**

**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	2.6094	1.5234	16.6135	0.0524	6.8919	0.0424	6.9344	1.8282	0.0391	1.8672		5,222.1255	5,222.1255	0.1062		5,224.7807
<b>Total</b>	<b>2.6094</b>	<b>1.5234</b>	<b>16.6135</b>	<b>0.0524</b>	<b>6.8919</b>	<b>0.0424</b>	<b>6.9344</b>	<b>1.8282</b>	<b>0.0391</b>	<b>1.8672</b>		<b>5,222.1255</b>	<b>5,222.1255</b>	<b>0.1062</b>		<b>5,224.7807</b>

**3.7 Architectural Coating - 2026**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2026**

**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	2.4780	1.3916	15.4439	0.0504	6.8919	0.0412	6.9331	1.8282	0.0379	1.8661		5,028.1294	5,028.1294	0.0966		5,030.5434
<b>Total</b>	<b>2.4780</b>	<b>1.3916</b>	<b>15.4439</b>	<b>0.0504</b>	<b>6.8919</b>	<b>0.0412</b>	<b>6.9331</b>	<b>1.8282</b>	<b>0.0379</b>	<b>1.8661</b>		<b>5,028.1294</b>	<b>5,028.1294</b>	<b>0.0966</b>		<b>5,030.5434</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2026**

**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	2.4780	1.3916	15.4439	0.0504	6.8919	0.0412	6.9331	1.8282	0.0379	1.8661		5,028.1294	5,028.1294	0.0966		5,030.5434
<b>Total</b>	<b>2.4780</b>	<b>1.3916</b>	<b>15.4439</b>	<b>0.0504</b>	<b>6.8919</b>	<b>0.0412</b>	<b>6.9331</b>	<b>1.8282</b>	<b>0.0379</b>	<b>1.8661</b>		<b>5,028.1294</b>	<b>5,028.1294</b>	<b>0.0966</b>		<b>5,030.5434</b>

**3.7 Architectural Coating - 2027**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2027**

**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	2.3486	1.2733	14.3884	0.0487	6.8919	0.0392	6.9311	1.8282	0.0360	1.8642		4,854.3955	4,854.3955	0.0879		4,856.5920
<b>Total</b>	<b>2.3486</b>	<b>1.2733</b>	<b>14.3884</b>	<b>0.0487</b>	<b>6.8919</b>	<b>0.0392</b>	<b>6.9311</b>	<b>1.8282</b>	<b>0.0360</b>	<b>1.8642</b>		<b>4,854.3955</b>	<b>4,854.3955</b>	<b>0.0879</b>		<b>4,856.5920</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2027**

**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	2.3486	1.2733	14.3884	0.0487	6.8919	0.0392	6.9311	1.8282	0.0360	1.8642		4,854.3955	4,854.3955	0.0879		4,856.5920
<b>Total</b>	<b>2.3486</b>	<b>1.2733</b>	<b>14.3884</b>	<b>0.0487</b>	<b>6.8919</b>	<b>0.0392</b>	<b>6.9311</b>	<b>1.8282</b>	<b>0.0360</b>	<b>1.8642</b>		<b>4,854.3955</b>	<b>4,854.3955</b>	<b>0.0879</b>		<b>4,856.5920</b>

**3.7 Architectural Coating - 2028**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2028**

**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	2.2127	1.1682	13.4600	0.0471	6.8919	0.0366	6.9285	1.8282	0.0336	1.8618		4,700.126 2	4,700.126 2	0.0804		4,702.135 7
<b>Total</b>	<b>2.2127</b>	<b>1.1682</b>	<b>13.4600</b>	<b>0.0471</b>	<b>6.8919</b>	<b>0.0366</b>	<b>6.9285</b>	<b>1.8282</b>	<b>0.0336</b>	<b>1.8618</b>		<b>4,700.126 2</b>	<b>4,700.126 2</b>	<b>0.0804</b>		<b>4,702.135 7</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2028**

**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	2.2127	1.1682	13.4600	0.0471	6.8919	0.0366	6.9285	1.8282	0.0336	1.8618		4,700.126 2	4,700.126 2	0.0804		4,702.135 7
<b>Total</b>	<b>2.2127</b>	<b>1.1682</b>	<b>13.4600</b>	<b>0.0471</b>	<b>6.8919</b>	<b>0.0366</b>	<b>6.9285</b>	<b>1.8282</b>	<b>0.0336</b>	<b>1.8618</b>		<b>4,700.126 2</b>	<b>4,700.126 2</b>	<b>0.0804</b>		<b>4,702.135 7</b>

**3.7 Architectural Coating - 2029**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2029**

**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	2.0637	1.0700	12.5665	0.0458	6.8919	0.0340	6.9260	1.8282	0.0313	1.8595		4,563.349 2	4,563.349 2	0.0732		4,565.180 3
<b>Total</b>	<b>2.0637</b>	<b>1.0700</b>	<b>12.5665</b>	<b>0.0458</b>	<b>6.8919</b>	<b>0.0340</b>	<b>6.9260</b>	<b>1.8282</b>	<b>0.0313</b>	<b>1.8595</b>		<b>4,563.349 2</b>	<b>4,563.349 2</b>	<b>0.0732</b>		<b>4,565.180 3</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>43.5617</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2029**

**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	2.0637	1.0700	12.5665	0.0458	6.8919	0.0340	6.9260	1.8282	0.0313	1.8595		4,563.349 2	4,563.349 2	0.0732		4,565.180 3
<b>Total</b>	<b>2.0637</b>	<b>1.0700</b>	<b>12.5665</b>	<b>0.0458</b>	<b>6.8919</b>	<b>0.0340</b>	<b>6.9260</b>	<b>1.8282</b>	<b>0.0313</b>	<b>1.8595</b>		<b>4,563.349 2</b>	<b>4,563.349 2</b>	<b>0.0732</b>		<b>4,565.180 3</b>

**3.7 Architectural Coating - 2030**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2030**

**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	1.9195	0.9815	11.7628	0.0445	6.8919	0.0317	6.9236	1.8282	0.0292	1.8573		4,442.8263	4,442.8263	0.0669		4,444.4987
<b>Total</b>	<b>1.9195</b>	<b>0.9815</b>	<b>11.7628</b>	<b>0.0445</b>	<b>6.8919</b>	<b>0.0317</b>	<b>6.9236</b>	<b>1.8282</b>	<b>0.0292</b>	<b>1.8573</b>		<b>4,442.8263</b>	<b>4,442.8263</b>	<b>0.0669</b>		<b>4,444.4987</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2030**

**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	1.9195	0.9815	11.7628	0.0445	6.8919	0.0317	6.9236	1.8282	0.0292	1.8573		4,442.8263	4,442.8263	0.0669		4,444.4987
<b>Total</b>	<b>1.9195</b>	<b>0.9815</b>	<b>11.7628</b>	<b>0.0445</b>	<b>6.8919</b>	<b>0.0317</b>	<b>6.9236</b>	<b>1.8282</b>	<b>0.0292</b>	<b>1.8573</b>		<b>4,442.8263</b>	<b>4,442.8263</b>	<b>0.0669</b>		<b>4,444.4987</b>

**3.7 Architectural Coating - 2031**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2031**

**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	1.7659	0.8978	10.9945	0.0435	6.8919	0.0295	6.9214	1.8282	0.0271	1.8553		4,337.0647	4,337.0647	0.0610		4,338.5885
<b>Total</b>	<b>1.7659</b>	<b>0.8978</b>	<b>10.9945</b>	<b>0.0435</b>	<b>6.8919</b>	<b>0.0295</b>	<b>6.9214</b>	<b>1.8282</b>	<b>0.0271</b>	<b>1.8553</b>		<b>4,337.0647</b>	<b>4,337.0647</b>	<b>0.0610</b>		<b>4,338.5885</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2031**

**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	1.7659	0.8978	10.9945	0.0435	6.8919	0.0295	6.9214	1.8282	0.0271	1.8553		4,337.0647	4,337.0647	0.0610		4,338.5885
<b>Total</b>	<b>1.7659</b>	<b>0.8978</b>	<b>10.9945</b>	<b>0.0435</b>	<b>6.8919</b>	<b>0.0295</b>	<b>6.9214</b>	<b>1.8282</b>	<b>0.0271</b>	<b>1.8553</b>		<b>4,337.0647</b>	<b>4,337.0647</b>	<b>0.0610</b>		<b>4,338.5885</b>

**3.7 Architectural Coating - 2032**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2032**

**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	1.6288	0.8257	10.3178	0.0425	6.8919	0.0274	6.9194	1.8282	0.0252	1.8534		4,244.971 2	4,244.971 2	0.0558		4,246.365 4
<b>Total</b>	<b>1.6288</b>	<b>0.8257</b>	<b>10.3178</b>	<b>0.0425</b>	<b>6.8919</b>	<b>0.0274</b>	<b>6.9194</b>	<b>1.8282</b>	<b>0.0252</b>	<b>1.8534</b>		<b>4,244.971 2</b>	<b>4,244.971 2</b>	<b>0.0558</b>		<b>4,246.365 4</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2032**

**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	1.6288	0.8257	10.3178	0.0425	6.8919	0.0274	6.9194	1.8282	0.0252	1.8534		4,244.971 2	4,244.971 2	0.0558		4,246.365 4
<b>Total</b>	<b>1.6288</b>	<b>0.8257</b>	<b>10.3178</b>	<b>0.0425</b>	<b>6.8919</b>	<b>0.0274</b>	<b>6.9194</b>	<b>1.8282</b>	<b>0.0252</b>	<b>1.8534</b>		<b>4,244.971 2</b>	<b>4,244.971 2</b>	<b>0.0558</b>		<b>4,246.365 4</b>

**3.7 Architectural Coating - 2033**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2033**

**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	1.5172	0.7667	9.7478	0.0417	6.8919	0.0256	6.9175	1.8282	0.0235	1.8517		4,165.5843	4,165.5843	0.0515		4,166.8707
<b>Total</b>	<b>1.5172</b>	<b>0.7667</b>	<b>9.7478</b>	<b>0.0417</b>	<b>6.8919</b>	<b>0.0256</b>	<b>6.9175</b>	<b>1.8282</b>	<b>0.0235</b>	<b>1.8517</b>		<b>4,165.5843</b>	<b>4,165.5843</b>	<b>0.0515</b>		<b>4,166.8707</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2033**

**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	1.5172	0.7667	9.7478	0.0417	6.8919	0.0256	6.9175	1.8282	0.0235	1.8517		4,165.5843	4,165.5843	0.0515		4,166.8707
<b>Total</b>	<b>1.5172</b>	<b>0.7667</b>	<b>9.7478</b>	<b>0.0417</b>	<b>6.8919</b>	<b>0.0256</b>	<b>6.9175</b>	<b>1.8282</b>	<b>0.0235</b>	<b>1.8517</b>		<b>4,165.5843</b>	<b>4,165.5843</b>	<b>0.0515</b>		<b>4,166.8707</b>

**3.7 Architectural Coating - 2034**

**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	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2034**

**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	1.4195	0.7164	9.2084	0.0410	6.8919	0.0239	6.9158	1.8282	0.0220	1.8501		4,096.9990	4,096.9990	0.0474		4,098.1846
<b>Total</b>	<b>1.4195</b>	<b>0.7164</b>	<b>9.2084</b>	<b>0.0410</b>	<b>6.8919</b>	<b>0.0239</b>	<b>6.9158</b>	<b>1.8282</b>	<b>0.0220</b>	<b>1.8501</b>		<b>4,096.9990</b>	<b>4,096.9990</b>	<b>0.0474</b>		<b>4,098.1846</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	43.3908					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>43.5216</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2034**

**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	1.4195	0.7164	9.2084	0.0410	6.8919	0.0239	6.9158	1.8282	0.0220	1.8501		4,096.9990	4,096.9990	0.0474		4,098.1846
<b>Total</b>	<b>1.4195</b>	<b>0.7164</b>	<b>9.2084</b>	<b>0.0410</b>	<b>6.8919</b>	<b>0.0239</b>	<b>6.9158</b>	<b>1.8282</b>	<b>0.0220</b>	<b>1.8501</b>		<b>4,096.9990</b>	<b>4,096.9990</b>	<b>0.0474</b>		<b>4,098.1846</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	108.7762	629.7536	1,178.5804	4.8023	571.5329	2.6513	574.1842	152.5905	2.4625	155.0530		490,442.8622	490,442.8622	21.0241		490,968.4646
Unmitigated	108.7762	629.7536	1,178.5804	4.8023	571.5329	2.6513	574.1842	152.5905	2.4625	155.0530		490,442.8622	490,442.8622	21.0241		490,968.4646

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	14,211.05	13,655.43	12522.82	35,644,537	35,644,537
Apartments Mid Rise	665.00	639.00	586.00	1,667,971	1,667,971
City Park	74.09	891.80	656.21	505,635	505,635
City Park	73.90	889.53	654.53	504,345	504,345
Convenience Market (24 Hour)	2,361.57	2,761.92	2427.04	1,361,170	1,361,170
Discount Club	8,096.66	10,411.38	6521.88	10,094,519	10,094,519
Elementary School	3,471.75	0.00	0.00	5,214,694	5,214,694
Fast Food Restaurant with Drive Thru	19,199.84	27,942.56	21003.26	14,303,895	14,303,895
Gasoline/Service Station	8,090.88	8,090.88	8090.88	3,464,556	3,464,556
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,732,278	1,732,278
General Office Building	3,291.35	734.06	313.32	5,163,982	5,163,982
Hardware/Paint Store	1,656.67	2,665.40	2217.40	2,151,622	2,151,622
High School	3,222.50	1,092.50	447.50	6,568,328	6,568,328
Home Improvement Superstore	4,961.44	9,154.61	9006.12	5,443,613	5,443,613
Hospital	5,729.55	4,412.01	3861.59	12,982,479	12,982,479
Library	0.00	0.00	0.00		
Office Park	0.00	0.00	0.00		

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,130.19	3,130.19	3130.19	2,716,022	2,716,022
Single Family Housing	20,315.68	21,147.94	18395.08	51,733,278	51,733,278
Single Family Housing	16,869.44	17,560.52	15274.64	42,957,530	42,957,530
Strip Mall	5,008.16	4,750.52	2308.59	5,638,959	5,638,959
Strip Mall	8,358.75	7,928.74	3853.10	9,411,572	9,411,572
Strip Mall	11,009.09	10,442.74	5074.81	12,395,730	12,395,730
Supermarket	6,604.70	11,472.31	10752.02	6,791,940	6,791,940
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>150,447.70</b>	<b>163,819.48</b>	<b>131,142.43</b>	<b>238,448,655</b>	<b>238,448,655</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3





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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
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hospital	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Office Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Unenclosed Parking with Elevator	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.5512	39.6619	22.1969	0.2483		3.1445	3.1445		3.1445	3.1445		49,649.1888	49,649.1888	0.9516	0.9102	49,944.2291
NaturalGas Unmitigated	5.2376	45.6368	25.4930	0.2857		3.6187	3.6187		3.6187	3.6187		57,137.3569	57,137.3569	1.0951	1.0475	57,476.8957

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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	57073.1	0.6155	5.2597	2.2382	0.0336		0.4253	0.4253		0.4253	0.4253		6,714.4850	6,714.4850	0.1287	0.1231	6,754.3858
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	47.5178	5.1000e-004	4.6600e-003	3.9100e-003	3.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004		5.5903	5.5903	1.1000e-004	1.0000e-004	5.6236

## Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Discount Club	2876.31	0.0310	0.2820	0.2369	1.6900e-003		0.0214	0.0214		0.0214	0.0214		338.3897	338.3897	6.4900e-003	6.2000e-003	340.4006
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647
Fast Food Restaurant with Drive Thru	18841.1	0.2032	1.8472	1.5516	0.0111		0.1404	0.1404		0.1404	0.1404		2,216.5963	2,216.5963	0.0425	0.0406	2,229.7684
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	10709.7	0.1155	1.0500	0.8820	6.3000e-003		0.0798	0.0798		0.0798	0.0798		1,259.9645	1,259.9645	0.0242	0.0231	1,267.4519
Hardware/Paint Store	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2396.68	0.0259	0.2350	0.1974	1.4100e-003		0.0179	0.0179		0.0179	0.0179		281.9623	281.9623	5.4000e-003	5.1700e-003	283.6379
Hospital	80173.1	0.8646	7.8601	6.6025	0.0472		0.5974	0.5974		0.5974	0.5974		9,432.1251	9,432.1251	0.1808	0.1729	9,488.1755
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	479.633	5.1700e-003	0.0470	0.0395	2.8000e-004		3.5700e-003	3.5700e-003		3.5700e-003	3.5700e-003		56.4274	56.4274	1.0800e-003	1.0300e-003	56.7627
Single Family Housing	125422	1.3526	11.5585	4.9185	0.0738		0.9345	0.9345		0.9345	0.9345		14,755.5425	14,755.5425	0.2828	0.2705	14,843.2273
Single Family Housing	151044	1.6289	13.9198	5.9233	0.0889		1.1254	1.1254		1.1254	1.1254		17,769.9367	17,769.9367	0.3406	0.3258	17,875.5345
Strip Mall	1677.97	0.0181	0.1645	0.1382	9.9000e-004		0.0125	0.0125		0.0125	0.0125		197.4085	197.4085	3.7800e-003	3.6200e-003	198.5816

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	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					
Strip Mall	2800.58	0.0302	0.2746	0.2306	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.4801	329.4801	6.3200e-003	6.0400e-003	331.4380
Strip Mall	3688.57	0.0398	0.3616	0.3038	2.1700e-003		0.0275	0.0275		0.0275	0.0275		433.9494	433.9494	8.3200e-003	7.9600e-003	436.5281
Supermarket	4495.45	0.0485	0.4407	0.3702	2.6400e-003		0.0335	0.0335		0.0335	0.0335		528.8767	528.8767	0.0101	9.7000e-003	532.0196
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.2376</b>	<b>45.6367</b>	<b>25.4930</b>	<b>0.2857</b>		<b>3.6187</b>	<b>3.6187</b>		<b>3.6187</b>	<b>3.6187</b>		<b>57,137.3569</b>	<b>57,137.3569</b>	<b>1.0951</b>	<b>1.0475</b>	<b>57,476.8957</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.37086	0.0256	0.2185	0.0930	1.3900e-003		0.0177	0.0177		0.0177	0.0177		278.9244	278.9244	5.3500e-003	5.1100e-003	280.5819
Apartments Mid Rise	50.6652	0.5464	4.6692	1.9869	0.0298		0.3775	0.3775		0.3775	0.3775		5,960.6144	5,960.6144	0.1143	0.1093	5,996.0354
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0414163	4.5000e-004	4.0600e-003	3.4100e-003	2.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004		4.8725	4.8725	9.0000e-005	9.0000e-005	4.9015
Discount Club	2.50698	0.0270	0.2458	0.2065	1.4700e-003		0.0187	0.0187		0.0187	0.0187		294.9391	294.9391	5.6500e-003	5.4100e-003	296.6918
Elementary School	8.01185	0.0864	0.7855	0.6598	4.7100e-003		0.0597	0.0597		0.0597	0.0597		942.5705	942.5705	0.0181	0.0173	948.1717

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant with Drive Thru	17.8606	0.1926	1.7510	1.4709	0.0105		0.1331	0.1331		0.1331	0.1331		2,101.2472	2,101.2472	0.0403	0.0385	2,113.7339
Gasoline/Service Station	0.264531	2.8500e-003	0.0259	0.0218	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003		31.1212	31.1212	6.0000e-004	5.7000e-004	31.3062
Gasoline/Service Station	0.57315	6.1800e-003	0.0562	0.0472	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003		67.4294	67.4294	1.2900e-003	1.2400e-003	67.8301
General Office Building	9.13586	0.0985	0.8957	0.7524	5.3700e-003		0.0681	0.0681		0.0681	0.0681		1,074.8075	1,074.8075	0.0206	0.0197	1,081.1945
Hardware/Paint Store	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
High School	8.90205	0.0960	0.8728	0.7331	5.2400e-003		0.0663	0.0663		0.0663	0.0663		1,047.3006	1,047.3006	0.0201	0.0192	1,053.5242
Home Improvement Superstore	2.08894	0.0225	0.2048	0.1720	1.2300e-003		0.0156	0.0156		0.0156	0.0156		245.7572	245.7572	4.7100e-003	4.5100e-003	247.2176
Hospital	69.5149	0.7497	6.8152	5.7248	0.0409		0.5180	0.5180		0.5180	0.5180		8,178.2266	8,178.2266	0.1568	0.1499	8,226.8257
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Office Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	0.418046	4.5100e-003	0.0410	0.0344	2.5000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003		49.1819	49.1819	9.4000e-004	9.0000e-004	49.4742
Single Family Housing	108.004	1.1648	9.9533	4.2354	0.0635		0.8047	0.8047		0.8047	0.8047		12,706.3098	12,706.3098	0.2435	0.2330	12,781.8170
Single Family Housing	130.068	1.4027	11.9866	5.1007	0.0765		0.9691	0.9691		0.9691	0.9691		15,302.0683	15,302.0683	0.2933	0.2805	15,393.0009
Strip Mall	1.46251	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0605	172.0605	3.3000e-003	3.1500e-003	173.0830
Strip Mall	2.44097	0.0263	0.2393	0.2010	1.4400e-003		0.0182	0.0182		0.0182	0.0182		287.1735	287.1735	5.5000e-003	5.2600e-003	288.8800
Strip Mall	3.21494	0.0347	0.3152	0.2648	1.8900e-003		0.0240	0.0240		0.0240	0.0240		378.2285	378.2285	7.2500e-003	6.9300e-003	380.4762

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Supermarket	4.05598	0.0437	0.3976	0.3340	2.3900e-003		0.0302	0.0302		0.0302	0.0302		477.1738	477.1738	9.1500e-003	8.7500e-003	480.0094
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.5512</b>	<b>39.6619</b>	<b>22.1969</b>	<b>0.2483</b>		<b>3.1444</b>	<b>3.1444</b>		<b>3.1444</b>	<b>3.1444</b>		<b>49,649.1888</b>	<b>49,649.1888</b>	<b>0.9516</b>	<b>0.9102</b>	<b>49,944.2291</b>

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674
Unmitigated	313.4875	73.7665	534.5534	0.4604		8.3053	8.3053		8.3053	8.3053	0.0000	87,638.6021	87,638.6021	2.5344	1.5900	88,175.7674

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.7059	86,724.7059	1.6622	1.5900	87,240.0675
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.6021</b>	<b>87,638.6021</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.7674</b>



Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	38.3266					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	252.0543					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.9498	67.9344	28.9082	0.4336		5.4926	5.4926		5.4926	5.4926	0.0000	86,724.70 59	86,724.70 59	1.6622	1.5900	87,240.06 75
Landscaping	15.1568	5.8321	505.6452	0.0268		2.8127	2.8127		2.8127	2.8127		913.8962	913.8962	0.8722		935.7000
<b>Total</b>	<b>313.4875</b>	<b>73.7665</b>	<b>534.5534</b>	<b>0.4604</b>		<b>8.3053</b>	<b>8.3053</b>		<b>8.3053</b>	<b>8.3053</b>	<b>0.0000</b>	<b>87,638.60 21</b>	<b>87,638.60 21</b>	<b>2.5344</b>	<b>1.5900</b>	<b>88,175.76 74</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

Jackson CEQA Original Project Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX J-4**  
**ALTERNATIVE 2 ANNUAL CONSTRUCTION EMISSIONS**

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Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24**  
**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	766.60	1000sqft	21.36	766,600.00	0
Pharmacy/Drugstore with Drive Thru	32.50	1000sqft	1.20	32,500.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,213.00	0
Parking Lot	468.30	1000sqft	10.75	468,300.00	0
Parking Lot	390.30	1000sqft	8.96	390,300.00	0
Parking Lot	156.80	1000sqft	3.60	156,800.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	93.70	1000sqft	2.15	93,700.00	0
Parking Lot	273.10	1000sqft	6.27	273,100.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.40	1000sqft	0.17	7,400.00	0
Parking Lot	416.00	1000sqft	9.55	416,000.00	0
Parking Lot	343.20	1000sqft	7.88	343,200.00	0
Parking Lot	613.30	1000sqft	14.08	613,300.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
City Park	40.60	Acre	40.60	1,768,536.00	0
City Park	38.20	Acre	38.20	1,663,992.00	0
Fast Food Restaurant with Drive Thru	39.00	1000sqft	1.43	39,000.00	0
Apartments Mid Rise	2,050.00	Dwelling Unit	82.00	2,050,000.00	5474
Apartments Mid Rise	100.00	Dwelling Unit	11.82	178,600.00	267
Single Family Housing	3,540.00	Dwelling Unit	507.10	6,372,000.00	9452
Convenience Market (24 Hour)	3.30	1000sqft	0.12	3,300.00	0
Discount Club	195.00	1000sqft	7.16	195,000.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.11	3,000.00	0
Hardware/Paint Store	32.50	1000sqft	1.20	32,500.00	0
Home Improvement Superstore	162.50	1000sqft	5.97	162,500.00	0
Strip Mall	113.80	1000sqft	4.18	113,800.00	0
Strip Mall	173.40	1000sqft	6.37	173,400.00	0
Strip Mall	250.40	1000sqft	0.00	250,400.00	0
Supermarket	65.00	1000sqft	2.40	65,000.00	0

1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	236.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

1.3 User Entered Comments & Non-Default Data

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O are default for SMUD.

Land Use - Land use and acreages per Applicant. Acreage for Multi-use shopping entered as 0 per User Manual.

Construction Phase - Days adjusted to match 15-year construction plan.

Off-road Equipment - Default equipment.

Trips and VMT - Adjusted trips based on project design. Default Site Prep, Grading, Paving.

Grading - Graded acreage from land use.

Architectural Coating - Default coating.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	125.00
tblConstructionPhase	NumDays	1,395.00	322.00
tblConstructionPhase	NumDays	13,950.00	3,224.00
tblConstructionPhase	NumDays	990.00	229.00
tblConstructionPhase	NumDays	990.00	3,224.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,150.00
tblFireplaces	NumberGas	0.00	3,540.00
tblFireplaces	NumberNoFireplace	2,150.00	0.00
tblFireplaces	NumberNoFireplace	3,540.00	0.00
tblGrading	AcresOfGrading	805.00	905.00

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tblLandUse	LandUseSquareFeet	0.00	70,213.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	17.60	21.36
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.90	1.43
tblLandUse	LotAcreage	2.63	11.82
tblLandUse	LotAcreage	53.95	82.00
tblLandUse	LotAcreage	1,149.35	507.10
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	4.48	7.16
tblLandUse	LotAcreage	0.08	0.11
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	3.73	5.97
tblLandUse	LotAcreage	2.61	4.18
tblLandUse	LotAcreage	3.98	6.37
tblLandUse	LotAcreage	5.75	0.00
tblLandUse	LotAcreage	1.49	2.40
tblProjectCharacteristics	CO2IntensityFactor	590.31	236.9
tblTripsAndVMT	VendorTripNumber	2,167.00	1,018.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	6,636.00	4,193.00

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

tblTripsAndVMT	:	WorkerTripNumber	:	1,327.00	:	839.00
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## 2.0 Emissions Summary

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### 2.1 Overall Construction

#### Unmitigated Construction



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, 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
Year	tons/yr										MT/yr					
2020	0.5689	6.0959	3.6028	6.8000e-003	2.0399	0.2864	2.3262	0.9041	0.2635	1.1676	0.0000	598.3950	598.3950	0.1887	0.0000	603.1135
2021	0.4806	4.7884	3.4743	6.7700e-003	1.0547	0.2095	1.2642	0.3627	0.1928	0.5555	0.0000	595.3794	595.3794	0.1880	0.0000	600.0804
2022	3.2042	7.5832	9.6208	0.0343	2.2670	0.1174	2.3844	0.6103	0.1097	0.7200	0.0000	3,164.066 4	3,164.066 4	0.1904	0.0000	3,168.825 6
2023	7.7904	14.1009	19.2714	0.0775	5.5780	0.1477	5.7257	1.5014	0.1391	1.6405	0.0000	7,171.389 5	7,171.389 5	0.3154	0.0000	7,179.273 4
2024	7.7020	13.7501	18.1747	0.0762	5.6208	0.1347	5.7555	1.5129	0.1268	1.6397	0.0000	7,059.467 1	7,059.467 1	0.3068	0.0000	7,067.136 4
2025	7.5418	13.2627	16.9896	0.0741	5.5993	0.1204	5.7197	1.5071	0.1133	1.6204	0.0000	6,868.199 3	6,868.199 3	0.2960	0.0000	6,875.598 4
2026	7.4393	12.9887	16.0365	0.0725	5.5992	0.1188	5.7180	1.5071	0.1117	1.6188	0.0000	6,720.722 7	6,720.722 7	0.2879	0.0000	6,727.921 0
2027	7.3400	12.7387	15.1801	0.0710	5.5991	0.1166	5.7158	1.5070	0.1097	1.6168	0.0000	6,587.972 6	6,587.972 6	0.2806	0.0000	6,594.986 5
2028	7.2108	12.4751	14.3736	0.0694	5.5776	0.1137	5.6914	1.5012	0.1070	1.6083	0.0000	6,445.863 4	6,445.863 4	0.2729	0.0000	6,452.685 8
2029	7.1294	12.3191	13.7184	0.0685	5.5991	0.1118	5.7108	1.5070	0.1052	1.6122	0.0000	6,366.369 2	6,366.369 2	0.2676	0.0000	6,373.058 7
2030	7.0115	11.5007	13.0926	0.0680	5.5990	0.0559	5.6549	1.5070	0.0536	1.5606	0.0000	6,314.737 9	6,314.737 9	0.2038	0.0000	6,319.833 4
2031	6.9016	11.3272	12.4960	0.0671	5.5990	0.0538	5.6528	1.5070	0.0516	1.5586	0.0000	6,234.306 4	6,234.306 4	0.1984	0.0000	6,239.266 6
2032	6.8299	11.2126	12.0208	0.0666	5.6204	0.0521	5.6725	1.5127	0.0500	1.5628	0.0000	6,188.379 7	6,188.379 7	0.1944	0.0000	6,193.240 1
2033	6.6981	10.9908	11.4916	0.0654	5.5775	0.0500	5.6275	1.5012	0.0481	1.5493	0.0000	6,081.330 3	6,081.330 3	0.1889	0.0000	6,086.053 8
2034	6.5479	10.3328	10.5876	0.0619	5.3356	0.0462	5.3818	1.4359	0.0445	1.4805	0.0000	5,751.122 7	5,751.122 7	0.1763	0.0000	5,755.529 2
<b>Maximum</b>	<b>7.7904</b>	<b>14.1009</b>	<b>19.2714</b>	<b>0.0775</b>	<b>5.6208</b>	<b>0.2864</b>	<b>5.7555</b>	<b>1.5129</b>	<b>0.2635</b>	<b>1.6405</b>	<b>0.0000</b>	<b>7,171.389 5</b>	<b>7,171.389 5</b>	<b>0.3154</b>	<b>0.0000</b>	<b>7,179.273 4</b>

**2.1 Overall Construction**  
**Mitigated Construction**

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, 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
Year	tons/yr										MT/yr					
2020	0.5689	6.0959	3.6028	6.8000e-003	2.0399	0.2864	2.3262	0.9041	0.2635	1.1676	0.0000	598.3943	598.3943	0.1887	0.0000	603.1129
2021	0.4806	4.7884	3.4743	6.7700e-003	1.0547	0.2095	1.2642	0.3627	0.1928	0.5555	0.0000	595.3787	595.3787	0.1880	0.0000	600.0797
2022	3.2042	7.5832	9.6208	0.0343	2.2670	0.1174	2.3844	0.6103	0.1097	0.7200	0.0000	3,164.0661	3,164.0661	0.1904	0.0000	3,168.8253
2023	7.7904	14.1009	19.2714	0.0775	5.5780	0.1477	5.7257	1.5014	0.1391	1.6405	0.0000	7,171.3891	7,171.3891	0.3154	0.0000	7,179.2730
2024	7.7020	13.7501	18.1747	0.0762	5.6208	0.1347	5.7555	1.5129	0.1268	1.6397	0.0000	7,059.4667	7,059.4667	0.3068	0.0000	7,067.1360
2025	7.5418	13.2627	16.9896	0.0741	5.5993	0.1204	5.7197	1.5071	0.1133	1.6204	0.0000	6,868.1989	6,868.1989	0.2960	0.0000	6,875.5979
2026	7.4393	12.9887	16.0365	0.0725	5.5992	0.1188	5.7180	1.5071	0.1117	1.6188	0.0000	6,720.7223	6,720.7223	0.2879	0.0000	6,727.9206
2027	7.3400	12.7387	15.1801	0.0710	5.5991	0.1166	5.7158	1.5070	0.1097	1.6168	0.0000	6,587.9722	6,587.9722	0.2806	0.0000	6,594.9861
2028	7.2108	12.4751	14.3736	0.0694	5.5776	0.1137	5.6914	1.5012	0.1070	1.6083	0.0000	6,445.8630	6,445.8630	0.2729	0.0000	6,452.6854
2029	7.1294	12.3191	13.7184	0.0685	5.5991	0.1118	5.7108	1.5070	0.1052	1.6122	0.0000	6,366.3688	6,366.3688	0.2676	0.0000	6,373.0583
2030	7.0115	11.5007	13.0926	0.0680	5.5990	0.0559	5.6549	1.5070	0.0536	1.5606	0.0000	6,314.7374	6,314.7374	0.2038	0.0000	6,319.8329
2031	6.9016	11.3272	12.4960	0.0671	5.5990	0.0538	5.6528	1.5070	0.0516	1.5586	0.0000	6,234.3060	6,234.3060	0.1984	0.0000	6,239.2661
2032	6.8299	11.2126	12.0208	0.0666	5.6204	0.0521	5.6725	1.5127	0.0500	1.5628	0.0000	6,188.3793	6,188.3793	0.1944	0.0000	6,193.2397
2033	6.6981	10.9908	11.4916	0.0654	5.5775	0.0500	5.6275	1.5012	0.0481	1.5493	0.0000	6,081.3299	6,081.3299	0.1889	0.0000	6,086.0533
2034	6.5479	10.3328	10.5876	0.0619	5.3356	0.0462	5.3818	1.4359	0.0445	1.4805	0.0000	5,751.1223	5,751.1223	0.1763	0.0000	5,755.5288
<b>Maximum</b>	<b>7.7904</b>	<b>14.1009</b>	<b>19.2714</b>	<b>0.0775</b>	<b>5.6208</b>	<b>0.2864</b>	<b>5.7555</b>	<b>1.5129</b>	<b>0.2635</b>	<b>1.6405</b>	<b>0.0000</b>	<b>7,171.3891</b>	<b>7,171.3891</b>	<b>0.3154</b>	<b>0.0000</b>	<b>7,179.2730</b>

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	1.5150	1.5150
2	4-1-2020	6-30-2020	1.5353	1.5353
3	7-1-2020	9-30-2020	1.7999	1.7999
4	10-1-2020	12-31-2020	1.8000	1.8000
5	1-1-2021	3-31-2021	1.6301	1.6301
6	4-1-2021	6-30-2021	1.6481	1.6481
7	7-1-2021	9-30-2021	1.4889	1.4889
8	10-1-2021	12-31-2021	0.5006	0.5006
9	1-1-2022	3-31-2022	0.4269	0.4269
10	4-1-2022	6-30-2022	0.4316	0.4316
11	7-1-2022	9-30-2022	3.7489	3.7489
12	10-1-2022	12-31-2022	6.2450	6.2450
13	1-1-2023	3-31-2023	5.4755	5.4755
14	4-1-2023	6-30-2023	5.4841	5.4841
15	7-1-2023	9-30-2023	5.5443	5.5443
16	10-1-2023	12-31-2023	5.5971	5.5971
17	1-1-2024	3-31-2024	5.3807	5.3807
18	4-1-2024	6-30-2024	5.3324	5.3324
19	7-1-2024	9-30-2024	5.3910	5.3910
20	10-1-2024	12-31-2024	5.4398	5.4398
21	1-1-2025	3-31-2025	5.1781	5.1781
22	4-1-2025	6-30-2025	5.1909	5.1909
23	7-1-2025	9-30-2025	5.2479	5.2479

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24	10-1-2025	12-31-2025	5.2932	5.2932
25	1-1-2026	3-31-2026	5.0821	5.0821
26	4-1-2026	6-30-2026	5.0964	5.0964
27	7-1-2026	9-30-2026	5.1524	5.1524
28	10-1-2026	12-31-2026	5.1950	5.1950
29	1-1-2027	3-31-2027	4.9929	4.9929
30	4-1-2027	6-30-2027	5.0085	5.0085
31	7-1-2027	9-30-2027	5.0636	5.0636
32	10-1-2027	12-31-2027	5.1039	5.1039
33	1-1-2028	3-31-2028	4.9662	4.9662
34	4-1-2028	6-30-2028	4.9284	4.9284
35	7-1-2028	9-30-2028	4.9826	4.9826
36	10-1-2028	12-31-2028	5.0208	5.0208
37	1-1-2029	3-31-2029	4.8313	4.8313
38	4-1-2029	6-30-2029	4.8489	4.8489
39	7-1-2029	9-30-2029	4.9022	4.9022
40	10-1-2029	12-31-2029	4.9387	4.9387
41	1-1-2030	3-31-2030	4.5976	4.5976
42	4-1-2030	6-30-2030	4.6141	4.6141
43	7-1-2030	9-30-2030	4.6648	4.6648
44	10-1-2030	12-31-2030	4.6998	4.6998
45	1-1-2031	3-31-2031	4.5246	4.5246
46	4-1-2031	6-30-2031	4.5417	4.5417
47	7-1-2031	9-30-2031	4.5916	4.5916
48	10-1-2031	12-31-2031	4.6252	4.6252
49	1-1-2032	3-31-2032	4.5085	4.5085
50	4-1-2032	6-30-2032	4.4762	4.4762

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51	7-1-2032	9-30-2032	4.5254	4.5254
52	10-1-2032	12-31-2032	4.5581	4.5581
53	1-1-2033	3-31-2033	4.4034	4.4034
54	4-1-2033	6-30-2033	4.4207	4.4207
55	7-1-2033	9-30-2033	4.4692	4.4692
56	10-1-2033	12-31-2033	4.5013	4.5013
57	1-1-2034	3-31-2034	4.3538	4.3538
58	4-1-2034	6-30-2034	4.3703	4.3703
59	7-1-2034	9-30-2034	4.4183	4.4183
		Highest	6.2450	6.2450

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Energy	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	15,243.7269	15,243.7269	1.0735	0.3324	15,369.6177
Mobile	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184
Waste						0.0000	0.0000		0.0000	0.0000	2,082.0255	0.0000	2,082.0255	123.0442	0.0000	5,158.1301
Water						0.0000	0.0000		0.0000	0.0000	217.1821	514.6403	731.8224	0.8105	0.4853	896.7150
<b>Total</b>	<b>70.1964</b>	<b>101.8548</b>	<b>231.4997</b>	<b>0.7900</b>	<b>82.9779</b>	<b>1.3278</b>	<b>84.3057</b>	<b>22.2169</b>	<b>1.2996</b>	<b>23.5164</b>	<b>2,299.2076</b>	<b>85,325.2663</b>	<b>87,624.4739</b>	<b>127.8077</b>	<b>0.8361</b>	<b>91,068.8361</b>

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**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	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Energy	0.6800	5.8929	3.0740	0.0371		0.4698	0.4698		0.4698	0.4698	0.0000	9,511.1817	9,511.1817	0.4695	0.1938	9,580.6787
Mobile	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184
Waste						0.0000	0.0000		0.0000	0.0000	2,082.0255	0.0000	2,082.0255	123.0442	0.0000	5,158.1301
Water						0.0000	0.0000		0.0000	0.0000	217.1821	514.6403	731.8224	0.8105	0.4853	896.7150
<b>Total</b>	<b>70.1007</b>	<b>101.0270</b>	<b>231.0751</b>	<b>0.7848</b>	<b>82.9779</b>	<b>1.2618</b>	<b>84.2396</b>	<b>22.2169</b>	<b>1.2335</b>	<b>23.4504</b>	<b>2,299.2076</b>	<b>79,592.7211</b>	<b>81,891.9287</b>	<b>127.2037</b>	<b>0.6976</b>	<b>85,279.8972</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.14</b>	<b>0.81</b>	<b>0.18</b>	<b>0.66</b>	<b>0.00</b>	<b>4.98</b>	<b>0.08</b>	<b>0.00</b>	<b>5.08</b>	<b>0.28</b>	<b>0.00</b>	<b>6.72</b>	<b>6.54</b>	<b>0.47</b>	<b>16.57</b>	<b>6.36</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	6/23/2020	5	125	
3	Grading	Grading	6/24/2020	9/16/2021	5	322	
4	Building Construction	Building Construction	8/4/2022	12/12/2034	5	3224	
5	Paving	Paving	9/17/2021	8/3/2022	5	229	
6	Architectural Coating	Architectural Coating	8/22/2022	12/28/2034	5	3224	

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

**Acres of Grading (Grading Phase): 905**

**Acres of Paving: 84.67**

**Residential Indoor: 17,416,215; Residential Outdoor: 5,805,405; Non-Residential Indoor: 3,583,070; Non-Residential Outdoor: 1,194,357; Striped Parking Area: 221,292 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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**



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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	4,193.00	1,018.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	839.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1291	0.0000	1.1291	0.6207	0.0000	0.6207	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2548	2.6511	1.3446	2.3800e-003		0.1373	0.1373		0.1264	0.1264	0.0000	208.9417	208.9417	0.0676	0.0000	210.6311
<b>Total</b>	<b>0.2548</b>	<b>2.6511</b>	<b>1.3446</b>	<b>2.3800e-003</b>	<b>1.1291</b>	<b>0.1373</b>	<b>1.2665</b>	<b>0.6207</b>	<b>0.1264</b>	<b>0.7470</b>	<b>0.0000</b>	<b>208.9417</b>	<b>208.9417</b>	<b>0.0676</b>	<b>0.0000</b>	<b>210.6311</b>

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**3.3 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1900e-003	2.8400e-003	0.0311	8.0000e-005	8.2600e-003	6.0000e-005	8.3200e-003	2.2000e-003	5.0000e-005	2.2500e-003	0.0000	7.3208	7.3208	2.1000e-004	0.0000	7.3260
<b>Total</b>	<b>4.1900e-003</b>	<b>2.8400e-003</b>	<b>0.0311</b>	<b>8.0000e-005</b>	<b>8.2600e-003</b>	<b>6.0000e-005</b>	<b>8.3200e-003</b>	<b>2.2000e-003</b>	<b>5.0000e-005</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>7.3208</b>	<b>7.3208</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>7.3260</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1291	0.0000	1.1291	0.6207	0.0000	0.6207	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2548	2.6511	1.3446	2.3800e-003		0.1373	0.1373		0.1264	0.1264	0.0000	208.9415	208.9415	0.0676	0.0000	210.6309
<b>Total</b>	<b>0.2548</b>	<b>2.6511</b>	<b>1.3446</b>	<b>2.3800e-003</b>	<b>1.1291</b>	<b>0.1373</b>	<b>1.2665</b>	<b>0.6207</b>	<b>0.1264</b>	<b>0.7470</b>	<b>0.0000</b>	<b>208.9415</b>	<b>208.9415</b>	<b>0.0676</b>	<b>0.0000</b>	<b>210.6309</b>

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**3.3 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1900e-003	2.8400e-003	0.0311	8.0000e-005	8.2600e-003	6.0000e-005	8.3200e-003	2.2000e-003	5.0000e-005	2.2500e-003	0.0000	7.3208	7.3208	2.1000e-004	0.0000	7.3260
<b>Total</b>	<b>4.1900e-003</b>	<b>2.8400e-003</b>	<b>0.0311</b>	<b>8.0000e-005</b>	<b>8.2600e-003</b>	<b>6.0000e-005</b>	<b>8.3200e-003</b>	<b>2.2000e-003</b>	<b>5.0000e-005</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>7.3208</b>	<b>7.3208</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>7.3260</b>

**3.4 Grading - 2020**

**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					0.8924	0.0000	0.8924	0.2786	0.0000	0.2786	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3048	3.4385	2.1891	4.2500e-003		0.1489	0.1489		0.1370	0.1370	0.0000	373.2174	373.2174	0.1207	0.0000	376.2351
<b>Total</b>	<b>0.3048</b>	<b>3.4385</b>	<b>2.1891</b>	<b>4.2500e-003</b>	<b>0.8924</b>	<b>0.1489</b>	<b>1.0413</b>	<b>0.2786</b>	<b>0.1370</b>	<b>0.4156</b>	<b>0.0000</b>	<b>373.2174</b>	<b>373.2174</b>	<b>0.1207</b>	<b>0.0000</b>	<b>376.2351</b>

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**3.4 Grading - 2020**

**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	5.1000e-003	3.4600e-003	0.0379	1.0000e-004	0.0101	7.0000e-005	0.0101	2.6800e-003	7.0000e-005	2.7400e-003	0.0000	8.9151	8.9151	2.5000e-004	0.0000	8.9214
<b>Total</b>	<b>5.1000e-003</b>	<b>3.4600e-003</b>	<b>0.0379</b>	<b>1.0000e-004</b>	<b>0.0101</b>	<b>7.0000e-005</b>	<b>0.0101</b>	<b>2.6800e-003</b>	<b>7.0000e-005</b>	<b>2.7400e-003</b>	<b>0.0000</b>	<b>8.9151</b>	<b>8.9151</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>8.9214</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8924	0.0000	0.8924	0.2786	0.0000	0.2786	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3048	3.4385	2.1891	4.2500e-003		0.1489	0.1489		0.1370	0.1370	0.0000	373.2170	373.2170	0.1207	0.0000	376.2346
<b>Total</b>	<b>0.3048</b>	<b>3.4385</b>	<b>2.1891</b>	<b>4.2500e-003</b>	<b>0.8924</b>	<b>0.1489</b>	<b>1.0413</b>	<b>0.2786</b>	<b>0.1370</b>	<b>0.4156</b>	<b>0.0000</b>	<b>373.2170</b>	<b>373.2170</b>	<b>0.1207</b>	<b>0.0000</b>	<b>376.2346</b>

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**3.4 Grading - 2020**

**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	5.1000e-003	3.4600e-003	0.0379	1.0000e-004	0.0101	7.0000e-005	0.0101	2.6800e-003	7.0000e-005	2.7400e-003	0.0000	8.9151	8.9151	2.5000e-004	0.0000	8.9214
<b>Total</b>	<b>5.1000e-003</b>	<b>3.4600e-003</b>	<b>0.0379</b>	<b>1.0000e-004</b>	<b>0.0101</b>	<b>7.0000e-005</b>	<b>0.0101</b>	<b>2.6800e-003</b>	<b>7.0000e-005</b>	<b>2.7400e-003</b>	<b>0.0000</b>	<b>8.9151</b>	<b>8.9151</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>8.9214</b>

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0369	0.0000	1.0369	0.3580	0.0000	0.3580	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3877	4.2920	2.8563	5.7400e-003		0.1836	0.1836		0.1690	0.1690	0.0000	504.0786	504.0786	0.1630	0.0000	508.1543
<b>Total</b>	<b>0.3877</b>	<b>4.2920</b>	<b>2.8563</b>	<b>5.7400e-003</b>	<b>1.0369</b>	<b>0.1836</b>	<b>1.2206</b>	<b>0.3580</b>	<b>0.1690</b>	<b>0.5270</b>	<b>0.0000</b>	<b>504.0786</b>	<b>504.0786</b>	<b>0.1630</b>	<b>0.0000</b>	<b>508.1543</b>

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**3.4 Grading - 2021**

**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	6.4100e-003	4.1900e-003	0.0468	1.3000e-004	0.0136	9.0000e-005	0.0137	3.6100e-003	9.0000e-005	3.7000e-003	0.0000	11.6287	11.6287	3.1000e-004	0.0000	11.6363
<b>Total</b>	<b>6.4100e-003</b>	<b>4.1900e-003</b>	<b>0.0468</b>	<b>1.3000e-004</b>	<b>0.0136</b>	<b>9.0000e-005</b>	<b>0.0137</b>	<b>3.6100e-003</b>	<b>9.0000e-005</b>	<b>3.7000e-003</b>	<b>0.0000</b>	<b>11.6287</b>	<b>11.6287</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>11.6363</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0369	0.0000	1.0369	0.3580	0.0000	0.3580	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3877	4.2920	2.8563	5.7400e-003		0.1836	0.1836		0.1690	0.1690	0.0000	504.0780	504.0780	0.1630	0.0000	508.1537
<b>Total</b>	<b>0.3877</b>	<b>4.2920</b>	<b>2.8563</b>	<b>5.7400e-003</b>	<b>1.0369</b>	<b>0.1836</b>	<b>1.2206</b>	<b>0.3580</b>	<b>0.1690</b>	<b>0.5270</b>	<b>0.0000</b>	<b>504.0780</b>	<b>504.0780</b>	<b>0.1630</b>	<b>0.0000</b>	<b>508.1537</b>

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**3.4 Grading - 2021**

**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	6.4100e-003	4.1900e-003	0.0468	1.3000e-004	0.0136	9.0000e-005	0.0137	3.6100e-003	9.0000e-005	3.7000e-003	0.0000	11.6287	11.6287	3.1000e-004	0.0000	11.6363
<b>Total</b>	<b>6.4100e-003</b>	<b>4.1900e-003</b>	<b>0.0468</b>	<b>1.3000e-004</b>	<b>0.0136</b>	<b>9.0000e-005</b>	<b>0.0137</b>	<b>3.6100e-003</b>	<b>9.0000e-005</b>	<b>3.7000e-003</b>	<b>0.0000</b>	<b>11.6287</b>	<b>11.6287</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>11.6363</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0913	0.8354	0.8754	1.4400e-003		0.0433	0.0433		0.0407	0.0407	0.0000	123.9730	123.9730	0.0297	0.0000	124.7155
<b>Total</b>	<b>0.0913</b>	<b>0.8354</b>	<b>0.8754</b>	<b>1.4400e-003</b>		<b>0.0433</b>	<b>0.0433</b>		<b>0.0407</b>	<b>0.0407</b>	<b>0.0000</b>	<b>123.9730</b>	<b>123.9730</b>	<b>0.0297</b>	<b>0.0000</b>	<b>124.7155</b>

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**3.5 Building Construction - 2022**

**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	0.1590	5.2900	1.3730	0.0132	0.3184	0.0135	0.3319	0.0920	0.0129	0.1049	0.0000	1,266.7116	1,266.7116	0.0710	0.0000	1,268.4862
Worker	0.7259	0.4564	5.2173	0.0150	1.6475	0.0112	1.6588	0.4382	0.0103	0.4485	0.0000	1,359.5567	1,359.5567	0.0333	0.0000	1,360.3883
<b>Total</b>	<b>0.8849</b>	<b>5.7464</b>	<b>6.5903</b>	<b>0.0282</b>	<b>1.9659</b>	<b>0.0247</b>	<b>1.9906</b>	<b>0.5302</b>	<b>0.0233</b>	<b>0.5535</b>	<b>0.0000</b>	<b>2,626.2683</b>	<b>2,626.2683</b>	<b>0.1042</b>	<b>0.0000</b>	<b>2,628.8745</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0913	0.8354	0.8754	1.4400e-003		0.0433	0.0433		0.0407	0.0407	0.0000	123.9729	123.9729	0.0297	0.0000	124.7154
<b>Total</b>	<b>0.0913</b>	<b>0.8354</b>	<b>0.8754</b>	<b>1.4400e-003</b>		<b>0.0433</b>	<b>0.0433</b>		<b>0.0407</b>	<b>0.0407</b>	<b>0.0000</b>	<b>123.9729</b>	<b>123.9729</b>	<b>0.0297</b>	<b>0.0000</b>	<b>124.7154</b>



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**3.5 Building Construction - 2022**

**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	0.1590	5.2900	1.3730	0.0132	0.3184	0.0135	0.3319	0.0920	0.0129	0.1049	0.0000	1,266.7116	1,266.7116	0.0710	0.0000	1,268.4862
Worker	0.7259	0.4564	5.2173	0.0150	1.6475	0.0112	1.6588	0.4382	0.0103	0.4485	0.0000	1,359.5567	1,359.5567	0.0333	0.0000	1,360.3883
<b>Total</b>	<b>0.8849</b>	<b>5.7464</b>	<b>6.5903</b>	<b>0.0282</b>	<b>1.9659</b>	<b>0.0247</b>	<b>1.9906</b>	<b>0.5302</b>	<b>0.0233</b>	<b>0.5535</b>	<b>0.0000</b>	<b>2,626.2683</b>	<b>2,626.2683</b>	<b>0.1042</b>	<b>0.0000</b>	<b>2,628.8745</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
<b>Total</b>	<b>0.2045</b>	<b>1.8700</b>	<b>2.1117</b>	<b>3.5000e-003</b>		<b>0.0910</b>	<b>0.0910</b>		<b>0.0856</b>	<b>0.0856</b>	<b>0.0000</b>	<b>301.3462</b>	<b>301.3462</b>	<b>0.0717</b>	<b>0.0000</b>	<b>303.1383</b>

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**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3054	10.8640	2.9515	0.0314	0.7736	0.0156	0.7892	0.2235	0.0149	0.2385	0.0000	3,021.0989	3,021.0989	0.1547	0.0000	3,024.9670
Worker	1.6511	0.9978	11.6431	0.0352	4.0034	0.0266	4.0300	1.0648	0.0245	1.0893	0.0000	3,179.5406	3,179.5406	0.0725	0.0000	3,181.3522
<b>Total</b>	<b>1.9564</b>	<b>11.8618</b>	<b>14.5946</b>	<b>0.0666</b>	<b>4.7769</b>	<b>0.0422</b>	<b>4.8191</b>	<b>1.2883</b>	<b>0.0394</b>	<b>1.3277</b>	<b>0.0000</b>	<b>6,200.6395</b>	<b>6,200.6395</b>	<b>0.2272</b>	<b>0.0000</b>	<b>6,206.3192</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
<b>Total</b>	<b>0.2045</b>	<b>1.8700</b>	<b>2.1117</b>	<b>3.5000e-003</b>		<b>0.0910</b>	<b>0.0910</b>		<b>0.0856</b>	<b>0.0856</b>	<b>0.0000</b>	<b>301.3458</b>	<b>301.3458</b>	<b>0.0717</b>	<b>0.0000</b>	<b>303.1380</b>

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**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3054	10.8640	2.9515	0.0314	0.7736	0.0156	0.7892	0.2235	0.0149	0.2385	0.0000	3,021.0989	3,021.0989	0.1547	0.0000	3,024.9670
Worker	1.6511	0.9978	11.6431	0.0352	4.0034	0.0266	4.0300	1.0648	0.0245	1.0893	0.0000	3,179.5406	3,179.5406	0.0725	0.0000	3,181.3522
<b>Total</b>	<b>1.9564</b>	<b>11.8618</b>	<b>14.5946</b>	<b>0.0666</b>	<b>4.7769</b>	<b>0.0422</b>	<b>4.8191</b>	<b>1.2883</b>	<b>0.0394</b>	<b>1.3277</b>	<b>0.0000</b>	<b>6,200.6395</b>	<b>6,200.6395</b>	<b>0.2272</b>	<b>0.0000</b>	<b>6,206.3192</b>

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7223</b>	<b>303.7223</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5179</b>

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**3.5 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2932	10.7386	2.7805	0.0314	0.7794	0.0149	0.7944	0.2252	0.0143	0.2395	0.0000	3,026.6647	3,026.6647	0.1540	0.0000	3,030.5151
Worker	1.5645	0.9088	10.8652	0.0341	4.0341	0.0262	4.0604	1.0730	0.0241	1.0971	0.0000	3,079.4489	3,079.4489	0.0659	0.0000	3,081.0956
<b>Total</b>	<b>1.8577</b>	<b>11.6474</b>	<b>13.6456</b>	<b>0.0655</b>	<b>4.8136</b>	<b>0.0412</b>	<b>4.8547</b>	<b>1.2982</b>	<b>0.0384</b>	<b>1.3366</b>	<b>0.0000</b>	<b>6,106.1136</b>	<b>6,106.1136</b>	<b>0.2199</b>	<b>0.0000</b>	<b>6,111.6108</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7220</b>	<b>303.7220</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5175</b>

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**3.5 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2932	10.7386	2.7805	0.0314	0.7794	0.0149	0.7944	0.2252	0.0143	0.2395	0.0000	3,026.6647	3,026.6647	0.1540	0.0000	3,030.5151
Worker	1.5645	0.9088	10.8652	0.0341	4.0341	0.0262	4.0604	1.0730	0.0241	1.0971	0.0000	3,079.4489	3,079.4489	0.0659	0.0000	3,081.0956
<b>Total</b>	<b>1.8577</b>	<b>11.6474</b>	<b>13.6456</b>	<b>0.0655</b>	<b>4.8136</b>	<b>0.0412</b>	<b>4.8547</b>	<b>1.2982</b>	<b>0.0384</b>	<b>1.3366</b>	<b>0.0000</b>	<b>6,106.1136</b>	<b>6,106.1136</b>	<b>0.2199</b>	<b>0.0000</b>	<b>6,111.6108</b>

**3.5 Building Construction - 2025**

**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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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**3.5 Building Construction - 2025**

**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	0.2802	10.4993	2.6225	0.0311	0.7764	0.0141	0.7905	0.2243	0.0135	0.2378	0.0000	2,998.0934	2,998.0934	0.1516	0.0000	3,001.8841
Worker	1.4718	0.8221	10.0258	0.0326	4.0188	0.0256	4.0444	1.0689	0.0236	1.0925	0.0000	2,944.8751	2,944.8751	0.0595	0.0000	2,946.3619
<b>Total</b>	<b>1.7520</b>	<b>11.3214</b>	<b>12.6483</b>	<b>0.0637</b>	<b>4.7951</b>	<b>0.0397</b>	<b>4.8349</b>	<b>1.2932</b>	<b>0.0371</b>	<b>1.3303</b>	<b>0.0000</b>	<b>5,942.9685</b>	<b>5,942.9685</b>	<b>0.2111</b>	<b>0.0000</b>	<b>5,948.2460</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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**3.5 Building Construction - 2025**

**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	0.2802	10.4993	2.6225	0.0311	0.7764	0.0141	0.7905	0.2243	0.0135	0.2378	0.0000	2,998.0934	2,998.0934	0.1516	0.0000	3,001.8841
Worker	1.4718	0.8221	10.0258	0.0326	4.0188	0.0256	4.0444	1.0689	0.0236	1.0925	0.0000	2,944.8751	2,944.8751	0.0595	0.0000	2,946.3619
<b>Total</b>	<b>1.7520</b>	<b>11.3214</b>	<b>12.6483</b>	<b>0.0637</b>	<b>4.7951</b>	<b>0.0397</b>	<b>4.8349</b>	<b>1.2932</b>	<b>0.0371</b>	<b>1.3303</b>	<b>0.0000</b>	<b>5,942.9685</b>	<b>5,942.9685</b>	<b>0.2111</b>	<b>0.0000</b>	<b>5,948.2460</b>

**3.5 Building Construction - 2026**

**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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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**3.5 Building Construction - 2026**

**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	0.2697	10.3107	2.5026	0.0309	0.7763	0.0133	0.7897	0.2243	0.0128	0.2371	0.0000	2,981.9241	2,981.9241	0.1500	0.0000	2,985.6739
Worker	1.3952	0.7510	9.3315	0.0314	4.0188	0.0249	4.0436	1.0689	0.0229	1.0918	0.0000	2,835.4611	2,835.4611	0.0541	0.0000	2,836.8146
<b>Total</b>	<b>1.6649</b>	<b>11.0617</b>	<b>11.8342</b>	<b>0.0623</b>	<b>4.7951</b>	<b>0.0382</b>	<b>4.8333</b>	<b>1.2932</b>	<b>0.0357</b>	<b>1.3288</b>	<b>0.0000</b>	<b>5,817.3852</b>	<b>5,817.3852</b>	<b>0.2041</b>	<b>0.0000</b>	<b>5,822.4885</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>



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**3.5 Building Construction - 2026**

**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	0.2697	10.3107	2.5026	0.0309	0.7763	0.0133	0.7897	0.2243	0.0128	0.2371	0.0000	2,981.9241	2,981.9241	0.1500	0.0000	2,985.6739
Worker	1.3952	0.7510	9.3315	0.0314	4.0188	0.0249	4.0436	1.0689	0.0229	1.0918	0.0000	2,835.4611	2,835.4611	0.0541	0.0000	2,836.8146
<b>Total</b>	<b>1.6649</b>	<b>11.0617</b>	<b>11.8342</b>	<b>0.0623</b>	<b>4.7951</b>	<b>0.0382</b>	<b>4.8333</b>	<b>1.2932</b>	<b>0.0357</b>	<b>1.3288</b>	<b>0.0000</b>	<b>5,817.3852</b>	<b>5,817.3852</b>	<b>0.2041</b>	<b>0.0000</b>	<b>5,822.4885</b>

**3.5 Building Construction - 2027**

**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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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**3.5 Building Construction - 2027**

**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	0.2604	10.1372	2.3984	0.0308	0.7763	0.0127	0.7890	0.2243	0.0121	0.2364	0.0000	2,966.7185	2,966.7185	0.1484	0.0000	2,970.4285
Worker	1.3201	0.6872	8.7048	0.0303	4.0188	0.0237	4.0424	1.0689	0.0218	1.0906	0.0000	2,737.5151	2,737.5151	0.0493	0.0000	2,738.7482
<b>Total</b>	<b>1.5806</b>	<b>10.8244</b>	<b>11.1031</b>	<b>0.0610</b>	<b>4.7950</b>	<b>0.0363</b>	<b>4.8314</b>	<b>1.2932</b>	<b>0.0339</b>	<b>1.3271</b>	<b>0.0000</b>	<b>5,704.2336</b>	<b>5,704.2336</b>	<b>0.1977</b>	<b>0.0000</b>	<b>5,709.1767</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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**3.5 Building Construction - 2027**

**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	0.2604	10.1372	2.3984	0.0308	0.7763	0.0127	0.7890	0.2243	0.0121	0.2364	0.0000	2,966.7185	2,966.7185	0.1484	0.0000	2,970.4285
Worker	1.3201	0.6872	8.7048	0.0303	4.0188	0.0237	4.0424	1.0689	0.0218	1.0906	0.0000	2,737.5151	2,737.5151	0.0493	0.0000	2,738.7482
<b>Total</b>	<b>1.5806</b>	<b>10.8244</b>	<b>11.1031</b>	<b>0.0610</b>	<b>4.7950</b>	<b>0.0363</b>	<b>4.8314</b>	<b>1.2932</b>	<b>0.0339</b>	<b>1.3271</b>	<b>0.0000</b>	<b>5,704.2336</b>	<b>5,704.2336</b>	<b>0.1977</b>	<b>0.0000</b>	<b>5,709.1767</b>

**3.5 Building Construction - 2028**

**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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
<b>Total</b>	<b>0.1778</b>	<b>1.6211</b>	<b>2.0910</b>	<b>3.5000e-003</b>		<b>0.0686</b>	<b>0.0686</b>		<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>301.4953</b>	<b>301.4953</b>	<b>0.0709</b>	<b>0.0000</b>	<b>303.2671</b>

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**3.5 Building Construction - 2028**

**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	0.2513	9.9513	2.3014	0.0305	0.7732	0.0121	0.7853	0.2234	0.0116	0.2350	0.0000	2,942.4299	2,942.4299	0.1462	0.0000	2,946.0853
Worker	1.2376	0.6281	8.1210	0.0292	4.0034	0.0220	4.0253	1.0648	0.0202	1.0850	0.0000	2,640.4117	2,640.4117	0.0450	0.0000	2,641.5365
<b>Total</b>	<b>1.4889</b>	<b>10.5794</b>	<b>10.4224</b>	<b>0.0597</b>	<b>4.7766</b>	<b>0.0341</b>	<b>4.8107</b>	<b>1.2882</b>	<b>0.0318</b>	<b>1.3200</b>	<b>0.0000</b>	<b>5,582.8416</b>	<b>5,582.8416</b>	<b>0.1912</b>	<b>0.0000</b>	<b>5,587.6218</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
<b>Total</b>	<b>0.1778</b>	<b>1.6211</b>	<b>2.0910</b>	<b>3.5000e-003</b>		<b>0.0686</b>	<b>0.0686</b>		<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>301.4949</b>	<b>301.4949</b>	<b>0.0709</b>	<b>0.0000</b>	<b>303.2667</b>

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**3.5 Building Construction - 2028**

**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	0.2513	9.9513	2.3014	0.0305	0.7732	0.0121	0.7853	0.2234	0.0116	0.2350	0.0000	2,942.4299	2,942.4299	0.1462	0.0000	2,946.0853
Worker	1.2376	0.6281	8.1210	0.0292	4.0034	0.0220	4.0253	1.0648	0.0202	1.0850	0.0000	2,640.4117	2,640.4117	0.0450	0.0000	2,641.5365
<b>Total</b>	<b>1.4889</b>	<b>10.5794</b>	<b>10.4224</b>	<b>0.0597</b>	<b>4.7766</b>	<b>0.0341</b>	<b>4.8107</b>	<b>1.2882</b>	<b>0.0318</b>	<b>1.3200</b>	<b>0.0000</b>	<b>5,582.8416</b>	<b>5,582.8416</b>	<b>0.1912</b>	<b>0.0000</b>	<b>5,587.6218</b>

**3.5 Building Construction - 2029**

**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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
<b>Total</b>	<b>0.1785</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6549</b>	<b>302.6549</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4335</b>

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**3.5 Building Construction - 2029**

**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	0.2449	9.8491	2.2365	0.0305	0.7762	0.0115	0.7877	0.2243	0.0110	0.2353	0.0000	2,941.9399	2,941.9399	0.1452	0.0000	2,945.5690
Worker	1.1576	0.5777	7.6217	0.0284	4.0188	0.0206	4.0393	1.0689	0.0189	1.0878	0.0000	2,573.5074	2,573.5074	0.0412	0.0000	2,574.5377
<b>Total</b>	<b>1.4025</b>	<b>10.4267</b>	<b>9.8582</b>	<b>0.0589</b>	<b>4.7949</b>	<b>0.0321</b>	<b>4.8270</b>	<b>1.2931</b>	<b>0.0300</b>	<b>1.3231</b>	<b>0.0000</b>	<b>5,515.4473</b>	<b>5,515.4473</b>	<b>0.1864</b>	<b>0.0000</b>	<b>5,520.1067</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
<b>Total</b>	<b>0.1784</b>	<b>1.6273</b>	<b>2.0991</b>	<b>3.5200e-003</b>		<b>0.0689</b>	<b>0.0689</b>		<b>0.0648</b>	<b>0.0648</b>	<b>0.0000</b>	<b>302.6545</b>	<b>302.6545</b>	<b>0.0711</b>	<b>0.0000</b>	<b>304.4331</b>

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**3.5 Building Construction - 2029**

**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	0.2449	9.8491	2.2365	0.0305	0.7762	0.0115	0.7877	0.2243	0.0110	0.2353	0.0000	2,941.9399	2,941.9399	0.1452	0.0000	2,945.5690
Worker	1.1576	0.5777	7.6217	0.0284	4.0188	0.0206	4.0393	1.0689	0.0189	1.0878	0.0000	2,573.5074	2,573.5074	0.0412	0.0000	2,574.5377
<b>Total</b>	<b>1.4025</b>	<b>10.4267</b>	<b>9.8582</b>	<b>0.0589</b>	<b>4.7949</b>	<b>0.0321</b>	<b>4.8270</b>	<b>1.2931</b>	<b>0.0300</b>	<b>1.3231</b>	<b>0.0000</b>	<b>5,515.4473</b>	<b>5,515.4473</b>	<b>0.1864</b>	<b>0.0000</b>	<b>5,520.1067</b>

**3.5 Building Construction - 2030**

**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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
<b>Total</b>	<b>0.1708</b>	<b>1.0355</b>	<b>2.1085</b>	<b>4.0400e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>343.0336</b>	<b>343.0336</b>	<b>0.0138</b>	<b>0.0000</b>	<b>343.3777</b>

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**3.5 Building Construction - 2030**

**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	0.2382	9.7175	2.1758	0.0304	0.7761	0.0110	0.7871	0.2243	0.0105	0.2347	0.0000	2,931.3977	2,931.3977	0.1435	0.0000	2,934.9848
Worker	1.0756	0.5299	7.1442	0.0277	4.0188	0.0192	4.0379	1.0689	0.0176	1.0865	0.0000	2,505.6230	2,505.6230	0.0377	0.0000	2,506.5651
<b>Total</b>	<b>1.3138</b>	<b>10.2474</b>	<b>9.3200</b>	<b>0.0581</b>	<b>4.7949</b>	<b>0.0301</b>	<b>4.8250</b>	<b>1.2931</b>	<b>0.0281</b>	<b>1.3212</b>	<b>0.0000</b>	<b>5,437.0207</b>	<b>5,437.0207</b>	<b>0.1812</b>	<b>0.0000</b>	<b>5,441.5499</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
<b>Total</b>	<b>0.1708</b>	<b>1.0355</b>	<b>2.1085</b>	<b>4.0400e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>343.0332</b>	<b>343.0332</b>	<b>0.0138</b>	<b>0.0000</b>	<b>343.3773</b>



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**3.5 Building Construction - 2030**

**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	0.2382	9.7175	2.1758	0.0304	0.7761	0.0110	0.7871	0.2243	0.0105	0.2347	0.0000	2,931.3977	2,931.3977	0.1435	0.0000	2,934.9848
Worker	1.0756	0.5299	7.1442	0.0277	4.0188	0.0192	4.0379	1.0689	0.0176	1.0865	0.0000	2,505.6230	2,505.6230	0.0377	0.0000	2,506.5651
<b>Total</b>	<b>1.3138</b>	<b>10.2474</b>	<b>9.3200</b>	<b>0.0581</b>	<b>4.7949</b>	<b>0.0301</b>	<b>4.8250</b>	<b>1.2931</b>	<b>0.0281</b>	<b>1.3212</b>	<b>0.0000</b>	<b>5,437.0207</b>	<b>5,437.0207</b>	<b>0.1812</b>	<b>0.0000</b>	<b>5,441.5499</b>

**3.5 Building Construction - 2031**

**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	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
<b>Total</b>	<b>0.1708</b>	<b>1.0355</b>	<b>2.1085</b>	<b>4.0400e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>343.0336</b>	<b>343.0336</b>	<b>0.0138</b>	<b>0.0000</b>	<b>343.3777</b>

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**3.5 Building Construction - 2031**

**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	0.2326	9.5981	2.1260	0.0303	0.7761	0.0104	0.7865	0.2242	9.9700e-003	0.2342	0.0000	2,922.4333	2,922.4333	0.1420	0.0000	2,925.9843
Worker	0.9887	0.4849	6.6886	0.0270	4.0188	0.0178	4.0366	1.0689	0.0164	1.0852	0.0000	2,446.0718	2,446.0718	0.0344	0.0000	2,446.9313
<b>Total</b>	<b>1.2213</b>	<b>10.0830</b>	<b>8.8145</b>	<b>0.0573</b>	<b>4.7949</b>	<b>0.0282</b>	<b>4.8231</b>	<b>1.2931</b>	<b>0.0264</b>	<b>1.3195</b>	<b>0.0000</b>	<b>5,368.5051</b>	<b>5,368.5051</b>	<b>0.1764</b>	<b>0.0000</b>	<b>5,372.9155</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
<b>Total</b>	<b>0.1708</b>	<b>1.0355</b>	<b>2.1085</b>	<b>4.0400e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>343.0332</b>	<b>343.0332</b>	<b>0.0138</b>	<b>0.0000</b>	<b>343.3773</b>

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**3.5 Building Construction - 2031**

**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	0.2326	9.5981	2.1260	0.0303	0.7761	0.0104	0.7865	0.2242	9.9700e-003	0.2342	0.0000	2,922.4333	2,922.4333	0.1420	0.0000	2,925.9843
Worker	0.9887	0.4849	6.6886	0.0270	4.0188	0.0178	4.0366	1.0689	0.0164	1.0852	0.0000	2,446.0718	2,446.0718	0.0344	0.0000	2,446.9313
<b>Total</b>	<b>1.2213</b>	<b>10.0830</b>	<b>8.8145</b>	<b>0.0573</b>	<b>4.7949</b>	<b>0.0282</b>	<b>4.8231</b>	<b>1.2931</b>	<b>0.0264</b>	<b>1.3195</b>	<b>0.0000</b>	<b>5,368.5051</b>	<b>5,368.5051</b>	<b>0.1764</b>	<b>0.0000</b>	<b>5,372.9155</b>

**3.5 Building Construction - 2032**

**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	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
<b>Total</b>	<b>0.1715</b>	<b>1.0394</b>	<b>2.1166</b>	<b>4.0600e-003</b>		<b>0.0194</b>	<b>0.0194</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>344.3479</b>	<b>344.3479</b>	<b>0.0138</b>	<b>0.0000</b>	<b>344.6933</b>

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**3.5 Building Construction - 2032**

**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	0.2288	9.5236	2.0945	0.0303	0.7791	0.0101	0.7891	0.2251	9.6100e-003	0.2347	0.0000	2,926.2813	2,926.2813	0.1413	0.0000	2,929.8138
Worker	0.9146	0.4478	6.3114	0.0265	4.0341	0.0166	4.0508	1.0730	0.0153	1.0883	0.0000	2,403.3947	2,403.3947	0.0316	0.0000	2,404.1852
<b>Total</b>	<b>1.1434</b>	<b>9.9714</b>	<b>8.4059</b>	<b>0.0569</b>	<b>4.8132</b>	<b>0.0267</b>	<b>4.8399</b>	<b>1.2980</b>	<b>0.0249</b>	<b>1.3229</b>	<b>0.0000</b>	<b>5,329.6759</b>	<b>5,329.6759</b>	<b>0.1729</b>	<b>0.0000</b>	<b>5,333.9990</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
<b>Total</b>	<b>0.1715</b>	<b>1.0394</b>	<b>2.1166</b>	<b>4.0600e-003</b>		<b>0.0194</b>	<b>0.0194</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>344.3475</b>	<b>344.3475</b>	<b>0.0138</b>	<b>0.0000</b>	<b>344.6929</b>

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**3.5 Building Construction - 2032**

**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	0.2288	9.5236	2.0945	0.0303	0.7791	0.0101	0.7891	0.2251	9.6100e-003	0.2347	0.0000	2,926.2813	2,926.2813	0.1413	0.0000	2,929.8138
Worker	0.9146	0.4478	6.3114	0.0265	4.0341	0.0166	4.0508	1.0730	0.0153	1.0883	0.0000	2,403.3947	2,403.3947	0.0316	0.0000	2,404.1852
<b>Total</b>	<b>1.1434</b>	<b>9.9714</b>	<b>8.4059</b>	<b>0.0569</b>	<b>4.8132</b>	<b>0.0267</b>	<b>4.8399</b>	<b>1.2980</b>	<b>0.0249</b>	<b>1.3229</b>	<b>0.0000</b>	<b>5,329.6759</b>	<b>5,329.6759</b>	<b>0.1729</b>	<b>0.0000</b>	<b>5,333.9990</b>

**3.5 Building Construction - 2033**

**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	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
<b>Total</b>	<b>0.1702</b>	<b>1.0315</b>	<b>2.1004</b>	<b>4.0200e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>341.7193</b>	<b>341.7193</b>	<b>0.0137</b>	<b>0.0000</b>	<b>342.0621</b>

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**3.5 Building Construction - 2033**

**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	0.2231	9.3528	2.0451	0.0300	0.7731	9.6200e-003	0.7827	0.2234	9.1900e-003	0.2326	0.0000	2,897.5698	2,897.5698	0.1391	0.0000	2,901.0473
Worker	0.8446	0.4127	5.9265	0.0258	4.0034	0.0154	4.0188	1.0648	0.0142	1.0789	0.0000	2,340.5213	2,340.5213	0.0290	0.0000	2,341.2460
<b>Total</b>	<b>1.0677</b>	<b>9.7654</b>	<b>7.9716</b>	<b>0.0559</b>	<b>4.7764</b>	<b>0.0250</b>	<b>4.8014</b>	<b>1.2881</b>	<b>0.0234</b>	<b>1.3115</b>	<b>0.0000</b>	<b>5,238.0911</b>	<b>5,238.0911</b>	<b>0.1681</b>	<b>0.0000</b>	<b>5,242.2933</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
<b>Total</b>	<b>0.1702</b>	<b>1.0315</b>	<b>2.1004</b>	<b>4.0200e-003</b>		<b>0.0193</b>	<b>0.0193</b>		<b>0.0193</b>	<b>0.0193</b>	<b>0.0000</b>	<b>341.7189</b>	<b>341.7189</b>	<b>0.0137</b>	<b>0.0000</b>	<b>342.0617</b>

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**3.5 Building Construction - 2033**

**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	0.2231	9.3528	2.0451	0.0300	0.7731	9.6200e-003	0.7827	0.2234	9.1900e-003	0.2326	0.0000	2,897.5698	2,897.5698	0.1391	0.0000	2,901.0473
Worker	0.8446	0.4127	5.9265	0.0258	4.0034	0.0154	4.0188	1.0648	0.0142	1.0789	0.0000	2,340.5213	2,340.5213	0.0290	0.0000	2,341.2460
<b>Total</b>	<b>1.0677</b>	<b>9.7654</b>	<b>7.9716</b>	<b>0.0559</b>	<b>4.7764</b>	<b>0.0250</b>	<b>4.8014</b>	<b>1.2881</b>	<b>0.0234</b>	<b>1.3115</b>	<b>0.0000</b>	<b>5,238.0911</b>	<b>5,238.0911</b>	<b>0.1681</b>	<b>0.0000</b>	<b>5,242.2933</b>

**3.5 Building Construction - 2034**

**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	0.1617	0.9799	1.9954	3.8200e-003		0.0183	0.0183		0.0183	0.0183	0.0000	324.6334	324.6334	0.0130	0.0000	324.9590
<b>Total</b>	<b>0.1617</b>	<b>0.9799</b>	<b>1.9954</b>	<b>3.8200e-003</b>		<b>0.0183</b>	<b>0.0183</b>		<b>0.0183</b>	<b>0.0183</b>	<b>0.0000</b>	<b>324.6334</b>	<b>324.6334</b>	<b>0.0130</b>	<b>0.0000</b>	<b>324.9590</b>

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**3.5 Building Construction - 2034**

**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	0.2085	8.7988	1.9140	0.0285	0.7344	8.8100e-003	0.7432	0.2122	8.4200e-003	0.2206	0.0000	2,747.6143	2,747.6143	0.1311	0.0000	2,750.8929
Worker	0.7496	0.3664	5.3277	0.0241	3.8032	0.0136	3.8168	1.0115	0.0126	1.0241	0.0000	2,186.9516	2,186.9516	0.0254	0.0000	2,187.5871
<b>Total</b>	<b>0.9581</b>	<b>9.1651</b>	<b>7.2416</b>	<b>0.0526</b>	<b>4.5376</b>	<b>0.0225</b>	<b>4.5600</b>	<b>1.2237</b>	<b>0.0210</b>	<b>1.2447</b>	<b>0.0000</b>	<b>4,934.5659</b>	<b>4,934.5659</b>	<b>0.1566</b>	<b>0.0000</b>	<b>4,938.4800</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1617	0.9799	1.9954	3.8200e-003		0.0183	0.0183		0.0183	0.0183	0.0000	324.6330	324.6330	0.0130	0.0000	324.9586
<b>Total</b>	<b>0.1617</b>	<b>0.9799</b>	<b>1.9954</b>	<b>3.8200e-003</b>		<b>0.0183</b>	<b>0.0183</b>		<b>0.0183</b>	<b>0.0183</b>	<b>0.0000</b>	<b>324.6330</b>	<b>324.6330</b>	<b>0.0130</b>	<b>0.0000</b>	<b>324.9586</b>



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**3.5 Building Construction - 2034**

**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	0.2085	8.7988	1.9140	0.0285	0.7344	8.8100e-003	0.7432	0.2122	8.4200e-003	0.2206	0.0000	2,747.6143	2,747.6143	0.1311	0.0000	2,750.8929
Worker	0.7496	0.3664	5.3277	0.0241	3.8032	0.0136	3.8168	1.0115	0.0126	1.0241	0.0000	2,186.9516	2,186.9516	0.0254	0.0000	2,187.5871
<b>Total</b>	<b>0.9581</b>	<b>9.1651</b>	<b>7.2416</b>	<b>0.0526</b>	<b>4.5376</b>	<b>0.0225</b>	<b>4.5600</b>	<b>1.2237</b>	<b>0.0210</b>	<b>1.2447</b>	<b>0.0000</b>	<b>4,934.5659</b>	<b>4,934.5659</b>	<b>0.1566</b>	<b>0.0000</b>	<b>4,938.4800</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0477	0.4909	0.5568	8.7000e-004		0.0258	0.0258		0.0237	0.0237	0.0000	76.0892	76.0892	0.0246	0.0000	76.7044
Paving	0.0368					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0845</b>	<b>0.4909</b>	<b>0.5568</b>	<b>8.7000e-004</b>		<b>0.0258</b>	<b>0.0258</b>		<b>0.0237</b>	<b>0.0237</b>	<b>0.0000</b>	<b>76.0892</b>	<b>76.0892</b>	<b>0.0246</b>	<b>0.0000</b>	<b>76.7044</b>

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**3.6 Paving - 2021**

**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	1.9700e-003	1.2900e-003	0.0144	4.0000e-005	4.1900e-003	3.0000e-005	4.2200e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.5829	3.5829	9.0000e-005	0.0000	3.5853
<b>Total</b>	<b>1.9700e-003</b>	<b>1.2900e-003</b>	<b>0.0144</b>	<b>4.0000e-005</b>	<b>4.1900e-003</b>	<b>3.0000e-005</b>	<b>4.2200e-003</b>	<b>1.1100e-003</b>	<b>3.0000e-005</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>3.5829</b>	<b>3.5829</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.5853</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0477	0.4909	0.5568	8.7000e-004		0.0258	0.0258		0.0237	0.0237	0.0000	76.0891	76.0891	0.0246	0.0000	76.7044
Paving	0.0368					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0845</b>	<b>0.4909</b>	<b>0.5568</b>	<b>8.7000e-004</b>		<b>0.0258</b>	<b>0.0258</b>		<b>0.0237</b>	<b>0.0237</b>	<b>0.0000</b>	<b>76.0891</b>	<b>76.0891</b>	<b>0.0246</b>	<b>0.0000</b>	<b>76.7044</b>

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**3.6 Paving - 2021**

**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	1.9700e-003	1.2900e-003	0.0144	4.0000e-005	4.1900e-003	3.0000e-005	4.2200e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.5829	3.5829	9.0000e-005	0.0000	3.5853
<b>Total</b>	<b>1.9700e-003</b>	<b>1.2900e-003</b>	<b>0.0144</b>	<b>4.0000e-005</b>	<b>4.1900e-003</b>	<b>3.0000e-005</b>	<b>4.2200e-003</b>	<b>1.1100e-003</b>	<b>3.0000e-005</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>3.5829</b>	<b>3.5829</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.5853</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0844	0.8511	1.1154	1.7400e-003		0.0434	0.0434		0.0400	0.0400	0.0000	153.2108	153.2108	0.0496	0.0000	154.4496
Paving	0.0741					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1585</b>	<b>0.8511</b>	<b>1.1154</b>	<b>1.7400e-003</b>		<b>0.0434</b>	<b>0.0434</b>		<b>0.0400</b>	<b>0.0400</b>	<b>0.0000</b>	<b>153.2108</b>	<b>153.2108</b>	<b>0.0496</b>	<b>0.0000</b>	<b>154.4496</b>

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**3.6 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7100e-003	2.3300e-003	0.0267	8.0000e-005	8.4300e-003	6.0000e-005	8.4900e-003	2.2400e-003	5.0000e-005	2.2900e-003	0.0000	6.9546	6.9546	1.7000e-004	0.0000	6.9588
<b>Total</b>	<b>3.7100e-003</b>	<b>2.3300e-003</b>	<b>0.0267</b>	<b>8.0000e-005</b>	<b>8.4300e-003</b>	<b>6.0000e-005</b>	<b>8.4900e-003</b>	<b>2.2400e-003</b>	<b>5.0000e-005</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>6.9546</b>	<b>6.9546</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>6.9588</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0844	0.8511	1.1154	1.7400e-003		0.0434	0.0434		0.0400	0.0400	0.0000	153.2106	153.2106	0.0496	0.0000	154.4494
Paving	0.0741					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1585</b>	<b>0.8511</b>	<b>1.1154</b>	<b>1.7400e-003</b>		<b>0.0434</b>	<b>0.0434</b>		<b>0.0400</b>	<b>0.0400</b>	<b>0.0000</b>	<b>153.2106</b>	<b>153.2106</b>	<b>0.0496</b>	<b>0.0000</b>	<b>154.4494</b>

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**3.6 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7100e-003	2.3300e-003	0.0267	8.0000e-005	8.4300e-003	6.0000e-005	8.4900e-003	2.2400e-003	5.0000e-005	2.2900e-003	0.0000	6.9546	6.9546	1.7000e-004	0.0000	6.9588
<b>Total</b>	<b>3.7100e-003</b>	<b>2.3300e-003</b>	<b>0.0267</b>	<b>8.0000e-005</b>	<b>8.4300e-003</b>	<b>6.0000e-005</b>	<b>8.4900e-003</b>	<b>2.2400e-003</b>	<b>5.0000e-005</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>6.9546</b>	<b>6.9546</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>6.9588</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.9271					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.0669	0.0862	1.4000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003	0.0000	12.1280	12.1280	7.9000e-004	0.0000	12.1477
<b>Total</b>	<b>1.9369</b>	<b>0.0669</b>	<b>0.0862</b>	<b>1.4000e-004</b>		<b>3.8800e-003</b>	<b>3.8800e-003</b>		<b>3.8800e-003</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>12.1280</b>	<b>12.1280</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>12.1477</b>

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**3.7 Architectural Coating - 2022**

**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	0.1290	0.0811	0.9269	2.6700e-003	0.2927	1.9900e-003	0.2947	0.0779	1.8400e-003	0.0797	0.0000	241.5318	241.5318	5.9100e-003	0.0000	241.6795
<b>Total</b>	<b>0.1290</b>	<b>0.0811</b>	<b>0.9269</b>	<b>2.6700e-003</b>	<b>0.2927</b>	<b>1.9900e-003</b>	<b>0.2947</b>	<b>0.0779</b>	<b>1.8400e-003</b>	<b>0.0797</b>	<b>0.0000</b>	<b>241.5318</b>	<b>241.5318</b>	<b>5.9100e-003</b>	<b>0.0000</b>	<b>241.6795</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.9271					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.0669	0.0862	1.4000e-004		3.8800e-003	3.8800e-003		3.8800e-003	3.8800e-003	0.0000	12.1279	12.1279	7.9000e-004	0.0000	12.1477
<b>Total</b>	<b>1.9369</b>	<b>0.0669</b>	<b>0.0862</b>	<b>1.4000e-004</b>		<b>3.8800e-003</b>	<b>3.8800e-003</b>		<b>3.8800e-003</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>12.1279</b>	<b>12.1279</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>12.1477</b>

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**3.7 Architectural Coating - 2022**

**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	0.1290	0.0811	0.9269	2.6700e-003	0.2927	1.9900e-003	0.2947	0.0779	1.8400e-003	0.0797	0.0000	241.5318	241.5318	5.9100e-003	0.0000	241.6795
<b>Total</b>	<b>0.1290</b>	<b>0.0811</b>	<b>0.9269</b>	<b>2.6700e-003</b>	<b>0.2927</b>	<b>1.9900e-003</b>	<b>0.2947</b>	<b>0.0779</b>	<b>1.8400e-003</b>	<b>0.0797</b>	<b>0.0000</b>	<b>241.5318</b>	<b>241.5318</b>	<b>5.9100e-003</b>	<b>0.0000</b>	<b>241.6795</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2742					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2355	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
<b>Total</b>	<b>5.2992</b>	<b>0.1694</b>	<b>0.2355</b>	<b>3.9000e-004</b>		<b>9.2100e-003</b>	<b>9.2100e-003</b>		<b>9.2100e-003</b>	<b>9.2100e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.9900e-003</b>	<b>0.0000</b>	<b>33.2419</b>

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**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3304	0.1997	2.3297	7.0400e-003	0.8011	5.3200e-003	0.8064	0.2131	4.9000e-003	0.2180	0.0000	636.2114	636.2114	0.0145	0.0000	636.5739
<b>Total</b>	<b>0.3304</b>	<b>0.1997</b>	<b>2.3297</b>	<b>7.0400e-003</b>	<b>0.8011</b>	<b>5.3200e-003</b>	<b>0.8064</b>	<b>0.2131</b>	<b>4.9000e-003</b>	<b>0.2180</b>	<b>0.0000</b>	<b>636.2114</b>	<b>636.2114</b>	<b>0.0145</b>	<b>0.0000</b>	<b>636.5739</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2742					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2354	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
<b>Total</b>	<b>5.2992</b>	<b>0.1694</b>	<b>0.2354</b>	<b>3.9000e-004</b>		<b>9.2100e-003</b>	<b>9.2100e-003</b>		<b>9.2100e-003</b>	<b>9.2100e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.9900e-003</b>	<b>0.0000</b>	<b>33.2419</b>



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**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3304	0.1997	2.3297	7.0400e-003	0.8011	5.3200e-003	0.8064	0.2131	4.9000e-003	0.2180	0.0000	636.2114	636.2114	0.0145	0.0000	636.5739
<b>Total</b>	<b>0.3304</b>	<b>0.1997</b>	<b>2.3297</b>	<b>7.0400e-003</b>	<b>0.8011</b>	<b>5.3200e-003</b>	<b>0.8064</b>	<b>0.2131</b>	<b>4.9000e-003</b>	<b>0.2180</b>	<b>0.0000</b>	<b>636.2114</b>	<b>636.2114</b>	<b>0.0145</b>	<b>0.0000</b>	<b>636.5739</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.3148					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
<b>Total</b>	<b>5.3385</b>	<b>0.1597</b>	<b>0.2371</b>	<b>3.9000e-004</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>33.4947</b>

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**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3130	0.1819	2.1741	6.8100e-003	0.8072	5.2400e-003	0.8125	0.2147	4.8300e-003	0.2195	0.0000	616.1836	616.1836	0.0132	0.0000	616.5131
<b>Total</b>	<b>0.3130</b>	<b>0.1819</b>	<b>2.1741</b>	<b>6.8100e-003</b>	<b>0.8072</b>	<b>5.2400e-003</b>	<b>0.8125</b>	<b>0.2147</b>	<b>4.8300e-003</b>	<b>0.2195</b>	<b>0.0000</b>	<b>616.1836</b>	<b>616.1836</b>	<b>0.0132</b>	<b>0.0000</b>	<b>616.5131</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.3148					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
<b>Total</b>	<b>5.3385</b>	<b>0.1597</b>	<b>0.2371</b>	<b>3.9000e-004</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>33.4947</b>

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**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.3130	0.1819	2.1741	6.8100e-003	0.8072	5.2400e-003	0.8125	0.2147	4.8300e-003	0.2195	0.0000	616.1836	616.1836	0.0132	0.0000	616.5131
<b>Total</b>	<b>0.3130</b>	<b>0.1819</b>	<b>2.1741</b>	<b>6.8100e-003</b>	<b>0.8072</b>	<b>5.2400e-003</b>	<b>0.8125</b>	<b>0.2147</b>	<b>4.8300e-003</b>	<b>0.2195</b>	<b>0.0000</b>	<b>616.1836</b>	<b>616.1836</b>	<b>0.0132</b>	<b>0.0000</b>	<b>616.5131</b>

**3.7 Architectural Coating - 2025**

**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	5.2945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.3168</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

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**3.7 Architectural Coating - 2025**

**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	0.2945	0.1645	2.0061	6.5200e-003	0.8041	5.1300e-003	0.8093	0.2139	4.7200e-003	0.2186	0.0000	589.2560	589.2560	0.0119	0.0000	589.5535
<b>Total</b>	<b>0.2945</b>	<b>0.1645</b>	<b>2.0061</b>	<b>6.5200e-003</b>	<b>0.8041</b>	<b>5.1300e-003</b>	<b>0.8093</b>	<b>0.2139</b>	<b>4.7200e-003</b>	<b>0.2186</b>	<b>0.0000</b>	<b>589.2560</b>	<b>589.2560</b>	<b>0.0119</b>	<b>0.0000</b>	<b>589.5535</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.3168</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

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**3.7 Architectural Coating - 2025**

**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	0.2945	0.1645	2.0061	6.5200e-003	0.8041	5.1300e-003	0.8093	0.2139	4.7200e-003	0.2186	0.0000	589.2560	589.2560	0.0119	0.0000	589.5535
<b>Total</b>	<b>0.2945</b>	<b>0.1645</b>	<b>2.0061</b>	<b>6.5200e-003</b>	<b>0.8041</b>	<b>5.1300e-003</b>	<b>0.8093</b>	<b>0.2139</b>	<b>4.7200e-003</b>	<b>0.2186</b>	<b>0.0000</b>	<b>589.2560</b>	<b>589.2560</b>	<b>0.0119</b>	<b>0.0000</b>	<b>589.5535</b>

**3.7 Architectural Coating - 2026**

**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	5.2945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.3168</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

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**3.7 Architectural Coating - 2026**

**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	0.2792	0.1503	1.8672	6.2700e-003	0.8041	4.9800e-003	0.8091	0.2139	4.5800e-003	0.2185	0.0000	567.3627	567.3627	0.0108	0.0000	567.6336
<b>Total</b>	<b>0.2792</b>	<b>0.1503</b>	<b>1.8672</b>	<b>6.2700e-003</b>	<b>0.8041</b>	<b>4.9800e-003</b>	<b>0.8091</b>	<b>0.2139</b>	<b>4.5800e-003</b>	<b>0.2185</b>	<b>0.0000</b>	<b>567.3627</b>	<b>567.3627</b>	<b>0.0108</b>	<b>0.0000</b>	<b>567.6336</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.3168</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

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**3.7 Architectural Coating - 2026**

**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	0.2792	0.1503	1.8672	6.2700e-003	0.8041	4.9800e-003	0.8091	0.2139	4.5800e-003	0.2185	0.0000	567.3627	567.3627	0.0108	0.0000	567.6336
<b>Total</b>	<b>0.2792</b>	<b>0.1503</b>	<b>1.8672</b>	<b>6.2700e-003</b>	<b>0.8041</b>	<b>4.9800e-003</b>	<b>0.8091</b>	<b>0.2139</b>	<b>4.5800e-003</b>	<b>0.2185</b>	<b>0.0000</b>	<b>567.3627</b>	<b>567.3627</b>	<b>0.0108</b>	<b>0.0000</b>	<b>567.6336</b>

**3.7 Architectural Coating - 2027**

**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	5.2945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.3168</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

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**3.7 Architectural Coating - 2027**

**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	0.2642	0.1375	1.7418	6.0500e-003	0.8041	4.7300e-003	0.8089	0.2139	4.3600e-003	0.2182	0.0000	547.7642	547.7642	9.8700e-003	0.0000	548.0109
<b>Total</b>	<b>0.2642</b>	<b>0.1375</b>	<b>1.7418</b>	<b>6.0500e-003</b>	<b>0.8041</b>	<b>4.7300e-003</b>	<b>0.8089</b>	<b>0.2139</b>	<b>4.3600e-003</b>	<b>0.2182</b>	<b>0.0000</b>	<b>547.7642</b>	<b>547.7642</b>	<b>9.8700e-003</b>	<b>0.0000</b>	<b>548.0109</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.3168</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>



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**3.7 Architectural Coating - 2027**

**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	0.2642	0.1375	1.7418	6.0500e-003	0.8041	4.7300e-003	0.8089	0.2139	4.3600e-003	0.2182	0.0000	547.7642	547.7642	9.8700e-003	0.0000	548.0109
<b>Total</b>	<b>0.2642</b>	<b>0.1375</b>	<b>1.7418</b>	<b>6.0500e-003</b>	<b>0.8041</b>	<b>4.7300e-003</b>	<b>0.8089</b>	<b>0.2139</b>	<b>4.3600e-003</b>	<b>0.2182</b>	<b>0.0000</b>	<b>547.7642</b>	<b>547.7642</b>	<b>9.8700e-003</b>	<b>0.0000</b>	<b>548.0109</b>

**3.7 Architectural Coating - 2028**

**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	5.2742					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2376
<b>Total</b>	<b>5.2965</b>	<b>0.1489</b>	<b>0.2352</b>	<b>3.9000e-004</b>		<b>6.7000e-003</b>	<b>6.7000e-003</b>		<b>6.7000e-003</b>	<b>6.7000e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.8100e-003</b>	<b>0.0000</b>	<b>33.2376</b>

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**3.7 Architectural Coating - 2028**

**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	0.2476	0.1257	1.6250	5.8400e-003	0.8011	4.4000e-003	0.8055	0.2131	4.0500e-003	0.2171	0.0000	528.3342	528.3342	9.0000e-003	0.0000	528.5593
<b>Total</b>	<b>0.2476</b>	<b>0.1257</b>	<b>1.6250</b>	<b>5.8400e-003</b>	<b>0.8011</b>	<b>4.4000e-003</b>	<b>0.8055</b>	<b>0.2131</b>	<b>4.0500e-003</b>	<b>0.2171</b>	<b>0.0000</b>	<b>528.3342</b>	<b>528.3342</b>	<b>9.0000e-003</b>	<b>0.0000</b>	<b>528.5593</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2742					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1489	0.2352	3.9000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	33.1923	33.1923	1.8100e-003	0.0000	33.2375
<b>Total</b>	<b>5.2965</b>	<b>0.1489</b>	<b>0.2352</b>	<b>3.9000e-004</b>		<b>6.7000e-003</b>	<b>6.7000e-003</b>		<b>6.7000e-003</b>	<b>6.7000e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.8100e-003</b>	<b>0.0000</b>	<b>33.2375</b>

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**3.7 Architectural Coating - 2028**

**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	0.2476	0.1257	1.6250	5.8400e-003	0.8011	4.4000e-003	0.8055	0.2131	4.0500e-003	0.2171	0.0000	528.3342	528.3342	9.0000e-003	0.0000	528.5593
<b>Total</b>	<b>0.2476</b>	<b>0.1257</b>	<b>1.6250</b>	<b>5.8400e-003</b>	<b>0.8011</b>	<b>4.4000e-003</b>	<b>0.8055</b>	<b>0.2131</b>	<b>4.0500e-003</b>	<b>0.2171</b>	<b>0.0000</b>	<b>528.3342</b>	<b>528.3342</b>	<b>9.0000e-003</b>	<b>0.0000</b>	<b>528.5593</b>

**3.7 Architectural Coating - 2029**

**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	5.2945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.3168</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

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**3.7 Architectural Coating - 2029**

**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	0.2316	0.1156	1.5251	5.6900e-003	0.8041	4.1100e-003	0.8083	0.2139	3.7900e-003	0.2177	0.0000	514.9470	514.9470	8.2500e-003	0.0000	515.1531
<b>Total</b>	<b>0.2316</b>	<b>0.1156</b>	<b>1.5251</b>	<b>5.6900e-003</b>	<b>0.8041</b>	<b>4.1100e-003</b>	<b>0.8083</b>	<b>0.2139</b>	<b>3.7900e-003</b>	<b>0.2177</b>	<b>0.0000</b>	<b>514.9470</b>	<b>514.9470</b>	<b>8.2500e-003</b>	<b>0.0000</b>	<b>515.1531</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
<b>Total</b>	<b>5.3168</b>	<b>0.1495</b>	<b>0.2361</b>	<b>3.9000e-004</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>		<b>6.7200e-003</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>33.3654</b>

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**3.7 Architectural Coating - 2029**

**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	0.2316	0.1156	1.5251	5.6900e-003	0.8041	4.1100e-003	0.8083	0.2139	3.7900e-003	0.2177	0.0000	514.9470	514.9470	8.2500e-003	0.0000	515.1531
<b>Total</b>	<b>0.2316</b>	<b>0.1156</b>	<b>1.5251</b>	<b>5.6900e-003</b>	<b>0.8041</b>	<b>4.1100e-003</b>	<b>0.8083</b>	<b>0.2139</b>	<b>3.7900e-003</b>	<b>0.2177</b>	<b>0.0000</b>	<b>514.9470</b>	<b>514.9470</b>	<b>8.2500e-003</b>	<b>0.0000</b>	<b>515.1531</b>

**3.7 Architectural Coating - 2030**

**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	5.2945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537
<b>Total</b>	<b>5.3116</b>	<b>0.1117</b>	<b>0.2346</b>	<b>3.9000e-004</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.3537</b>

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**3.7 Architectural Coating - 2030**

**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	0.2152	0.1060	1.4295	5.5400e-003	0.8041	3.8300e-003	0.8080	0.2139	3.5300e-003	0.2174	0.0000	501.3636	501.3636	7.5400e-003	0.0000	501.5521
<b>Total</b>	<b>0.2152</b>	<b>0.1060</b>	<b>1.4295</b>	<b>5.5400e-003</b>	<b>0.8041</b>	<b>3.8300e-003</b>	<b>0.8080</b>	<b>0.2139</b>	<b>3.5300e-003</b>	<b>0.2174</b>	<b>0.0000</b>	<b>501.3636</b>	<b>501.3636</b>	<b>7.5400e-003</b>	<b>0.0000</b>	<b>501.5521</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536
<b>Total</b>	<b>5.3116</b>	<b>0.1117</b>	<b>0.2346</b>	<b>3.9000e-004</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.3536</b>

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**3.7 Architectural Coating - 2030**

**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	0.2152	0.1060	1.4295	5.5400e-003	0.8041	3.8300e-003	0.8080	0.2139	3.5300e-003	0.2174	0.0000	501.3636	501.3636	7.5400e-003	0.0000	501.5521
<b>Total</b>	<b>0.2152</b>	<b>0.1060</b>	<b>1.4295</b>	<b>5.5400e-003</b>	<b>0.8041</b>	<b>3.8300e-003</b>	<b>0.8080</b>	<b>0.2139</b>	<b>3.5300e-003</b>	<b>0.2174</b>	<b>0.0000</b>	<b>501.3636</b>	<b>501.3636</b>	<b>7.5400e-003</b>	<b>0.0000</b>	<b>501.5521</b>

**3.7 Architectural Coating - 2031**

**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	5.2945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3200	33.3200	1.3500e-003	0.0000	33.3537
<b>Total</b>	<b>5.3116</b>	<b>0.1117</b>	<b>0.2346</b>	<b>3.9000e-004</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.3537</b>

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**3.7 Architectural Coating - 2031**

**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	0.1978	0.0970	1.3384	5.4100e-003	0.8041	3.5600e-003	0.8077	0.2139	3.2800e-003	0.2172	0.0000	489.4477	489.4477	6.8800e-003	0.0000	489.6197
<b>Total</b>	<b>0.1978</b>	<b>0.0970</b>	<b>1.3384</b>	<b>5.4100e-003</b>	<b>0.8041</b>	<b>3.5600e-003</b>	<b>0.8077</b>	<b>0.2139</b>	<b>3.2800e-003</b>	<b>0.2172</b>	<b>0.0000</b>	<b>489.4477</b>	<b>489.4477</b>	<b>6.8800e-003</b>	<b>0.0000</b>	<b>489.6197</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2945					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1117	0.2346	3.9000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	33.3199	33.3199	1.3500e-003	0.0000	33.3536
<b>Total</b>	<b>5.3116</b>	<b>0.1117</b>	<b>0.2346</b>	<b>3.9000e-004</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>		<b>2.6500e-003</b>	<b>2.6500e-003</b>	<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.3536</b>



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**3.7 Architectural Coating - 2031**

**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	0.1978	0.0970	1.3384	5.4100e-003	0.8041	3.5600e-003	0.8077	0.2139	3.2800e-003	0.2172	0.0000	489.4477	489.4477	6.8800e-003	0.0000	489.6197
<b>Total</b>	<b>0.1978</b>	<b>0.0970</b>	<b>1.3384</b>	<b>5.4100e-003</b>	<b>0.8041</b>	<b>3.5600e-003</b>	<b>0.8077</b>	<b>0.2139</b>	<b>3.2800e-003</b>	<b>0.2172</b>	<b>0.0000</b>	<b>489.4477</b>	<b>489.4477</b>	<b>6.8800e-003</b>	<b>0.0000</b>	<b>489.6197</b>

**3.7 Architectural Coating - 2032**

**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	5.3148					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4815
<b>Total</b>	<b>5.3320</b>	<b>0.1122</b>	<b>0.2355</b>	<b>3.9000e-004</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.4815</b>

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**3.7 Architectural Coating - 2032**

**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	0.1830	0.0896	1.2629	5.3100e-003	0.8072	3.3300e-003	0.8105	0.2147	3.0600e-003	0.2178	0.0000	480.9082	480.9082	6.3300e-003	0.0000	481.0664
<b>Total</b>	<b>0.1830</b>	<b>0.0896</b>	<b>1.2629</b>	<b>5.3100e-003</b>	<b>0.8072</b>	<b>3.3300e-003</b>	<b>0.8105</b>	<b>0.2147</b>	<b>3.0600e-003</b>	<b>0.2178</b>	<b>0.0000</b>	<b>480.9082</b>	<b>480.9082</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>481.0664</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.3148					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1122	0.2355	3.9000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	33.4476	33.4476	1.3500e-003	0.0000	33.4814
<b>Total</b>	<b>5.3320</b>	<b>0.1122</b>	<b>0.2355</b>	<b>3.9000e-004</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>		<b>2.6600e-003</b>	<b>2.6600e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.3500e-003</b>	<b>0.0000</b>	<b>33.4814</b>

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**3.7 Architectural Coating - 2032**

**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	0.1830	0.0896	1.2629	5.3100e-003	0.8072	3.3300e-003	0.8105	0.2147	3.0600e-003	0.2178	0.0000	480.9082	480.9082	6.3300e-003	0.0000	481.0664
<b>Total</b>	<b>0.1830</b>	<b>0.0896</b>	<b>1.2629</b>	<b>5.3100e-003</b>	<b>0.8072</b>	<b>3.3300e-003</b>	<b>0.8105</b>	<b>0.2147</b>	<b>3.0600e-003</b>	<b>0.2178</b>	<b>0.0000</b>	<b>480.9082</b>	<b>480.9082</b>	<b>6.3300e-003</b>	<b>0.0000</b>	<b>481.0664</b>

**3.7 Architectural Coating - 2033**

**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	5.2742					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2259
<b>Total</b>	<b>5.2912</b>	<b>0.1113</b>	<b>0.2337</b>	<b>3.9000e-004</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>33.2259</b>

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**3.7 Architectural Coating - 2033**

**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	0.1690	0.0826	1.1859	5.1700e-003	0.8011	3.0800e-003	0.8041	0.2131	2.8300e-003	0.2159	0.0000	468.3275	468.3275	5.8000e-003	0.0000	468.4726
<b>Total</b>	<b>0.1690</b>	<b>0.0826</b>	<b>1.1859</b>	<b>5.1700e-003</b>	<b>0.8011</b>	<b>3.0800e-003</b>	<b>0.8041</b>	<b>0.2131</b>	<b>2.8300e-003</b>	<b>0.2159</b>	<b>0.0000</b>	<b>468.3275</b>	<b>468.3275</b>	<b>5.8000e-003</b>	<b>0.0000</b>	<b>468.4726</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2742					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1113	0.2337	3.9000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003	0.0000	33.1923	33.1923	1.3400e-003	0.0000	33.2258
<b>Total</b>	<b>5.2912</b>	<b>0.1113</b>	<b>0.2337</b>	<b>3.9000e-004</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>		<b>2.6400e-003</b>	<b>2.6400e-003</b>	<b>0.0000</b>	<b>33.1923</b>	<b>33.1923</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>33.2258</b>

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**3.7 Architectural Coating - 2033**

**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	0.1690	0.0826	1.1859	5.1700e-003	0.8011	3.0800e-003	0.8041	0.2131	2.8300e-003	0.2159	0.0000	468.3275	468.3275	5.8000e-003	0.0000	468.4726
<b>Total</b>	<b>0.1690</b>	<b>0.0826</b>	<b>1.1859</b>	<b>5.1700e-003</b>	<b>0.8011</b>	<b>3.0800e-003</b>	<b>0.8041</b>	<b>0.2131</b>	<b>2.8300e-003</b>	<b>0.2159</b>	<b>0.0000</b>	<b>468.3275</b>	<b>468.3275</b>	<b>5.8000e-003</b>	<b>0.0000</b>	<b>468.4726</b>

**3.7 Architectural Coating - 2034**

**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	5.2540					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1109	0.2328	3.8000e-004		2.6300e-003	2.6300e-003		2.6300e-003	2.6300e-003	0.0000	33.0646	33.0646	1.3400e-003	0.0000	33.0981
<b>Total</b>	<b>5.2709</b>	<b>0.1109</b>	<b>0.2328</b>	<b>3.8000e-004</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>	<b>0.0000</b>	<b>33.0646</b>	<b>33.0646</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>33.0981</b>

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**3.7 Architectural Coating - 2034**

**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	0.1573	0.0769	1.1178	5.0700e-003	0.7980	2.8600e-003	0.8008	0.2122	2.6300e-003	0.2149	0.0000	458.8588	458.8588	5.3300e-003	0.0000	458.9922
<b>Total</b>	<b>0.1573</b>	<b>0.0769</b>	<b>1.1178</b>	<b>5.0700e-003</b>	<b>0.7980</b>	<b>2.8600e-003</b>	<b>0.8008</b>	<b>0.2122</b>	<b>2.6300e-003</b>	<b>0.2149</b>	<b>0.0000</b>	<b>458.8588</b>	<b>458.8588</b>	<b>5.3300e-003</b>	<b>0.0000</b>	<b>458.9922</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.2540					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1109	0.2328	3.8000e-004		2.6300e-003	2.6300e-003		2.6300e-003	2.6300e-003	0.0000	33.0646	33.0646	1.3400e-003	0.0000	33.0981
<b>Total</b>	<b>5.2709</b>	<b>0.1109</b>	<b>0.2328</b>	<b>3.8000e-004</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>		<b>2.6300e-003</b>	<b>2.6300e-003</b>	<b>0.0000</b>	<b>33.0646</b>	<b>33.0646</b>	<b>1.3400e-003</b>	<b>0.0000</b>	<b>33.0981</b>

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**3.7 Architectural Coating - 2034**

**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	0.1573	0.0769	1.1178	5.0700e-003	0.7980	2.8600e-003	0.8008	0.2122	2.6300e-003	0.2149	0.0000	458.8588	458.8588	5.3300e-003	0.0000	458.9922
<b>Total</b>	<b>0.1573</b>	<b>0.0769</b>	<b>1.1178</b>	<b>5.0700e-003</b>	<b>0.7980</b>	<b>2.8600e-003</b>	<b>0.8008</b>	<b>0.2122</b>	<b>2.6300e-003</b>	<b>0.2149</b>	<b>0.0000</b>	<b>458.8588</b>	<b>458.8588</b>	<b>5.3300e-003</b>	<b>0.0000</b>	<b>458.9922</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.80 19	68,466.80 19	2.7687	0.0000	68,536.01 84
Unmitigated	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.80 19	68,466.80 19	2.7687	0.0000	68,536.01 84

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	13,632.50	13,099.50	12013.00	34,193,402	34,193,402
Apartments Mid Rise	665.00	639.00	586.00	1,667,971	1,667,971
City Park	76.73	923.65	679.64	523,693	523,693
City Park	72.20	869.05	639.47	492,736	492,736
Convenience Market (24 Hour)	2,435.37	2,848.23	2502.89	1,403,707	1,403,707
Discount Club	8,151.00	10,481.25	6565.65	10,162,268	10,162,268
Elementary School	3,471.75	0.00	0.00	5,214,694	5,214,694
Fast Food Restaurant with Drive Thru	19,348.68	28,159.17	21166.08	14,414,777	14,414,777
Gasoline/Service Station	8,090.88	8,090.88	8090.88	3,464,556	3,464,556
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,732,278	1,732,278
General Office Building	8,455.60	1,885.84	804.93	13,266,451	13,266,451
Hardware/Paint Store	1,666.93	2,681.90	2231.13	2,164,945	2,164,945
High School	3,222.50	1,092.50	447.50	6,568,328	6,568,328
Home Improvement Superstore	4,995.25	9,217.00	9067.50	5,480,713	5,480,713
Library	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		



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Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,149.58	3,149.58	3149.58	2,732,839	2,732,839
Single Family Housing	33,700.80	35,081.40	30514.80	85,818,090	85,818,090
Strip Mall	5,043.62	4,784.15	2324.93	5,678,881	5,678,881
Strip Mall	7,685.09	7,289.74	3542.56	8,653,058	8,653,058
Strip Mall	11,097.73	10,526.82	5115.67	12,495,534	12,495,534
Supermarket	6,645.60	11,543.35	10818.60	6,833,995	6,833,995
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>145,652.23</b>	<b>156,408.44</b>	<b>124,306.25</b>	<b>222,962,916</b>	<b>222,962,916</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	10.00	5.00	6.50	0.90	80.10	19.00	24	15	61
Discount Club	10.00	5.00	6.50	16.70	64.30	19.00	45	40	15
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12

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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
Fast Food Restaurant with Drive	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
Gasoline/Service Station	10.00	5.00	6.50	2.00	79.00	19.00	14	27	59
Gasoline/Service Station	10.00	5.00	6.50	2.00	79.00	19.00	14	27	59
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Hardware/Paint Store	10.00	5.00	6.50	13.60	67.40	19.00	45	29	26
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
Home Improvement Superstore	10.00	5.00	6.50	23.40	57.60	19.00	32	20	48
Library	10.00	5.00	6.50	52.00	43.00	5.00	44	44	12
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

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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
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

5.0 Energy Detail

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,781.5335	2,781.5335	0.3405	0.0705	2,811.0396
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7,567.4871	7,567.4871	0.9264	0.1917	7,647.7619
Natural Gas Mitigated	0.6800	5.8929	3.0740	0.0371		0.4698	0.4698		0.4698	0.4698	0.0000	6,729.6482	6,729.6482	0.1290	0.1234	6,769.6392
Natural Gas Unmitigated	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	7,676.2398	7,676.2398	0.1471	0.1407	7,721.8558

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

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	974810	5.2600e-003	0.0449	0.0191	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	52.0196	52.0196	1.0000e-003	9.5000e-004	52.3287
Apartments Mid Rise	1.99836e+007	0.1078	0.9208	0.3918	5.8800e-003		0.0745	0.0745		0.0745	0.0745	0.0000	1,066.4013	1,066.4013	0.0204	0.0196	1,072.7384

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	17886	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9545	0.9545	2.0000e-005	2.0000e-005	0.9601
Discount Club	1.0569e+006	5.7000e-003	0.0518	0.0435	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4002	56.4002	1.0800e-003	1.0300e-003	56.7354
Elementary School	3.4335e+006	0.0185	0.1683	0.1414	1.0100e-003		0.0128	0.0128		0.0128	0.0128	0.0000	183.2246	183.2246	3.5100e-003	3.3600e-003	184.3135
Fast Food Restaurant with Drive Thru	6.9303e+006	0.0374	0.3397	0.2854	2.0400e-003		0.0258	0.0258		0.0258	0.0258	0.0000	369.8272	369.8272	7.0900e-003	6.7800e-003	372.0249
Gasoline/Service Station	107430	5.8000e-004	5.2700e-003	4.4200e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	5.7329	5.7329	1.1000e-004	1.1000e-004	5.7669
Gasoline/Service Station	232765	1.2600e-003	0.0114	9.5800e-003	7.0000e-005		8.7000e-004	8.7000e-004		8.7000e-004	8.7000e-004	0.0000	12.4212	12.4212	2.4000e-004	2.3000e-004	12.4950
General Office Building	1.00425e+007	0.0542	0.4923	0.4135	2.9500e-003		0.0374	0.0374		0.0374	0.0374	0.0000	535.9039	535.9039	0.0103	9.8200e-003	539.0885
Hardware/Paint Store	176150	9.5000e-004	8.6300e-003	7.2500e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	9.4000	9.4000	1.8000e-004	1.7000e-004	9.4559
High School	3.815e+006	0.0206	0.1870	0.1571	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	203.5829	203.5829	3.9000e-003	3.7300e-003	204.7927
Home Improvement Superstore	880750	4.7500e-003	0.0432	0.0363	2.6000e-004		3.2800e-003	3.2800e-003		3.2800e-003	3.2800e-003	0.0000	47.0002	47.0002	9.0000e-004	8.6000e-004	47.2795
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	176150	9.5000e-004	8.6300e-003	7.2500e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	9.4000	9.4000	1.8000e-004	1.7000e-004	9.4559
Single Family Housing	9.14548e+007	0.4931	4.2141	1.7932	0.0269		0.3407	0.3407		0.3407	0.3407	0.0000	4,880.3766	4,880.3766	0.0935	0.0895	4,909.3782
Strip Mall	1.35717e+006	7.3200e-003	0.0665	0.0559	4.0000e-004		5.0600e-003	5.0600e-003		5.0600e-003	5.0600e-003	0.0000	72.4237	72.4237	1.3900e-003	1.3300e-003	72.8540
Strip Mall	616796	3.3300e-003	0.0302	0.0254	1.8000e-004		2.3000e-003	2.3000e-003		2.3000e-003	2.3000e-003	0.0000	32.9146	32.9146	6.3000e-004	6.0000e-004	33.1102

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	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					
Strip Mall	939828	5.0700e-003	0.0461	0.0387	2.8000e-004		3.5000e-003	3.5000e-003		3.5000e-003	3.5000e-003	0.0000	50.1528	50.1528	9.6000e-004	9.2000e-004	50.4508
Supermarket	1.651e+006	8.9000e-003	0.0809	0.0680	4.9000e-004		6.1500e-003	6.1500e-003		6.1500e-003	6.1500e-003	0.0000	88.1037	88.1037	1.6900e-003	1.6200e-003	88.6272
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.7757</b>	<b>6.7207</b>	<b>3.4985</b>	<b>0.0423</b>		<b>0.5359</b>	<b>0.5359</b>		<b>0.5359</b>	<b>0.5359</b>	<b>0.0000</b>	<b>7,676.2398</b>	<b>7,676.2398</b>	<b>0.1471</b>	<b>0.1407</b>	<b>7,721.8558</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.78702e+007	0.0964	0.8234	0.3504	5.2600e-003		0.0666	0.0666		0.0666	0.0666	0.0000	953.6229	953.6229	0.0183	0.0175	959.2898
Apartments Mid Rise	871718	4.7000e-003	0.0402	0.0171	2.6000e-004		3.2500e-003	3.2500e-003		3.2500e-003	3.2500e-003	0.0000	46.5182	46.5182	8.9000e-004	8.5000e-004	46.7946
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	15722.7	8.0000e-005	7.7000e-004	6.5000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8390	0.8390	2.0000e-005	2.0000e-005	0.8440
Discount Club	929070	5.0100e-003	0.0455	0.0383	2.7000e-004		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	49.5787	49.5787	9.5000e-004	9.1000e-004	49.8733
Elementary School	2.95389e+006	0.0159	0.1448	0.1216	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.6308	157.6308	3.0200e-003	2.8900e-003	158.5675
Fast Food Restaurant with Drive Thru	6.5906e+006	0.0355	0.3231	0.2714	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	351.6993	351.6993	6.7400e-003	6.4500e-003	353.7893
Gasoline/Service Station	210568	1.1400e-003	0.0103	8.6700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.2367	11.2367	2.2000e-004	2.1000e-004	11.3035

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Gasoline/Service Station	97185.2	5.2000e-004	4.7600e-003	4.0000e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1862	5.1862	1.0000e-004	1.0000e-004	5.2170
General Office Building	8.65237e+006	0.0467	0.4241	0.3563	2.5400e-003		0.0322	0.0322		0.0322	0.0322	0.0000	461.7234	461.7234	8.8500e-003	8.4600e-003	464.4672
Hardware/Paint Store	154845	8.3000e-004	7.5900e-003	6.3800e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2631	8.2631	1.6000e-004	1.5000e-004	8.3122
High School	3.2821e+006	0.0177	0.1609	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	175.1454	175.1454	3.3600e-003	3.2100e-003	176.1862
Home Improvement Superstore	774225	4.1700e-003	0.0380	0.0319	2.3000e-004		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	41.3156	41.3156	7.9000e-004	7.6000e-004	41.5611
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	154845	8.3000e-004	7.5900e-003	6.3800e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2631	8.2631	1.6000e-004	1.5000e-004	8.3122
Single Family Housing	7.94912e+007	0.4286	3.6628	1.5587	0.0234		0.2961	0.2961		0.2961	0.2961	0.0000	4,241.9505	4,241.9505	0.0813	0.0778	4,267.1583
Strip Mall	1.19302e+006	6.4300e-003	0.0585	0.0491	3.5000e-004		4.4400e-003	4.4400e-003		4.4400e-003	4.4400e-003	0.0000	63.6641	63.6641	1.2200e-003	1.1700e-003	64.0425
Strip Mall	542196	2.9200e-003	0.0266	0.0223	1.6000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	28.9336	28.9336	5.5000e-004	5.3000e-004	29.1056
Strip Mall	826157	4.4500e-003	0.0405	0.0340	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	44.0869	44.0869	8.4000e-004	8.1000e-004	44.3489
Supermarket	1.49897e+006	8.0800e-003	0.0735	0.0617	4.4000e-004		5.5800e-003	5.5800e-003		5.5800e-003	5.5800e-003	0.0000	79.9908	79.9908	1.5300e-003	1.4700e-003	80.4661
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.6800</b>	<b>5.8929</b>	<b>3.0740</b>	<b>0.0371</b>		<b>0.4698</b>	<b>0.4698</b>		<b>0.4698</b>	<b>0.4698</b>	<b>0.0000</b>	<b>6,729.6482</b>	<b>6,729.6482</b>	<b>0.1290</b>	<b>0.1234</b>	<b>6,769.6392</b>

5.3 Energy by Land Use - Electricity

Unmitigated

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	425646	45.7382	5.6000e-003	1.1600e-003	46.2234
Apartments Mid Rise	8.72574e+006	937.6337	0.1148	0.0238	947.5800
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	38181	4.1028	5.0000e-004	1.0000e-004	4.1463
Discount Club	2.25615e+006	242.4369	0.0297	6.1400e-003	245.0087
Elementary School	1.647e+006	176.9801	0.0217	4.4800e-003	178.8575
Fast Food Restaurant with Drive Thru	1.62669e+006	174.7977	0.0214	4.4300e-003	176.6519
Gasoline/Service Station	45540	4.8936	6.0000e-004	1.2000e-004	4.9455
Gasoline/Service Station	98670	10.6027	1.3000e-003	2.7000e-004	10.7152
General Office Building	1.10697e+007	1,189.5065	0.1456	0.0301	1,202.1246
Hardware/Paint Store	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
High School	1.83e+006	196.6445	0.0241	4.9800e-003	198.7305
Home Improvement Superstore	1.88013e+006	202.0308	0.0247	5.1200e-003	204.1739
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	120120	12.9076	1.5800e-003	3.3000e-004	13.0445
Parking Lot	136605	14.6790	1.8000e-003	3.7000e-004	14.8347



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	145600	15.6456	1.9200e-003	4.0000e-004	15.8116
Parking Lot	163905	17.6126	2.1600e-003	4.5000e-004	17.7994
Parking Lot	213430	22.9343	2.8100e-003	5.8000e-004	23.1776
Parking Lot	214655	23.0660	2.8200e-003	5.8000e-004	23.3107
Parking Lot	2590	0.2783	3.0000e-005	1.0000e-005	0.2813
Parking Lot	2730	0.2934	4.0000e-005	1.0000e-005	0.2965
Parking Lot	27300	5.8671	7.2000e-004	1.5000e-004	5.9293
Parking Lot	32795	3.5240	4.3000e-004	9.0000e-005	3.5614
Parking Lot	47880	5.1450	6.3000e-004	1.3000e-004	5.1996
Parking Lot	54880	5.8972	7.2000e-004	1.5000e-004	5.9597
Parking Lot	5495	0.5905	7.0000e-005	1.0000e-005	0.5967
Parking Lot	95585	10.2712	1.2600e-003	2.6000e-004	10.3801
Pharmacy/Drugstore with Drive Thru	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
Single Family Housing	2.9891e+007	3,211.9663	0.3932	0.0814	3,246.0383
Strip Mall	1.31667e+006	141.4837	0.0173	3.5800e-003	142.9845
Strip Mall	2.00624e+006	215.5824	0.0264	5.4600e-003	217.8692
Strip Mall	2.89713e+006	311.3139	0.0381	7.8800e-003	314.6163
Supermarket	2.62665e+006	282.2494	0.0346	7.1500e-003	285.2435

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>7,567.487 1</b>	<b>0.9264</b>	<b>0.1917</b>	<b>7,647.761 9</b>

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	157932	16.9707	2.0800e-003	4.3000e-004	17.1507
Apartments Mid Rise	3.2376e+006	347.8993	0.0426	8.8100e-003	351.5898
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	13802.1	1.4831	1.8000e-004	4.0000e-005	1.4989
Discount Club	815578	87.6388	0.0107	2.2200e-003	88.5685
Elementary School	595531	63.9934	7.8300e-003	1.6200e-003	64.6722
Fast Food Restaurant with Drive Thru	594372	63.8688	7.8200e-003	1.6200e-003	64.5463
Gasoline/Service Station	16605.5	1.7844	2.2000e-004	5.0000e-005	1.8033
Gasoline/Service Station	35978.6	3.8661	4.7000e-004	1.0000e-004	3.9071
General Office Building	3.96315e+006	425.8640	0.0521	0.0108	430.3815

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Hardware/Paint Store	135930	14.6065	1.7900e-003	3.7000e-004	14.7614
High School	661701	71.1038	8.7000e-003	1.8000e-003	71.8580
Home Improvement Superstore	679649	73.0323	8.9400e-003	1.8500e-003	73.8071
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1029.21	0.1106	1.0000e-005	0.0000	0.1118
Parking Lot	10292.1	2.2119	2.7000e-004	6.0000e-005	2.2354
Parking Lot	12363.7	1.3286	1.6000e-004	3.0000e-005	1.3427
Parking Lot	18050.8	1.9397	2.4000e-004	5.0000e-005	1.9602
Parking Lot	20689.8	2.2232	2.7000e-004	6.0000e-005	2.2468
Parking Lot	2071.61	0.2226	3.0000e-005	1.0000e-005	0.2250
Parking Lot	36035.5	3.8722	4.7000e-004	1.0000e-004	3.9133
Parking Lot	45285.2	4.8662	6.0000e-004	1.2000e-004	4.9178
Parking Lot	51500.1	5.5340	6.8000e-004	1.4000e-004	5.5927
Parking Lot	54891.2	5.8984	7.2000e-004	1.5000e-004	5.9610
Parking Lot	61792.2	6.6399	8.1000e-004	1.7000e-004	6.7104
Parking Lot	80463.1	8.6463	1.0600e-003	2.2000e-004	8.7380
Parking Lot	80924.9	8.6959	1.0600e-003	2.2000e-004	8.7881

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	976.43	0.1049	1.0000e-005	0.0000	0.1060
Pharmacy/Drugstore with Drive Thru	135930	14.6065	1.7900e-003	3.7000e-004	14.7614
Single Family Housing	1.11366e+007	1,196.6952	0.1465	0.0303	1,209.3896
Strip Mall	1.04729e+006	112.5372	0.0138	2.8500e-003	113.7310
Strip Mall	475963	51.1451	6.2600e-003	1.3000e-003	51.6877
Strip Mall	725237	77.9311	9.5400e-003	1.9700e-003	78.7578
Supermarket	969818	104.2128	0.0128	2.6400e-003	105.3183
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,781.5335</b>	<b>0.3405</b>	<b>0.0705</b>	<b>2,811.0396</b>

6.0 Area Detail

6.1 Mitigation Measures Area

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, 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	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Unmitigated	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550

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	6.5401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.1895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1015	0.8670	0.3689	5.5300e-003		0.0701	0.0701		0.0701	0.0701	0.0000	1,004.0934	1,004.0934	0.0193	0.0184	1,010.0602
Landscaping	1.7555	0.6753	58.5508	3.1000e-003		0.3257	0.3257		0.3257	0.3257	0.0000	96.0038	96.0038	0.0916	0.0000	98.2947
<b>Total</b>	<b>51.5864</b>	<b>1.5423</b>	<b>58.9197</b>	<b>8.6300e-003</b>		<b>0.3958</b>	<b>0.3958</b>		<b>0.3958</b>	<b>0.3958</b>	<b>0.0000</b>	<b>1,100.0972</b>	<b>1,100.0972</b>	<b>0.1109</b>	<b>0.0184</b>	<b>1,108.3550</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, 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	6.5401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.1895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1015	0.8670	0.3689	5.5300e-003		0.0701	0.0701		0.0701	0.0701	0.0000	1,004.0934	1,004.0934	0.0193	0.0184	1,010.0602
Landscaping	1.7555	0.6753	58.5508	3.1000e-003		0.3257	0.3257		0.3257	0.3257	0.0000	96.0038	96.0038	0.0916	0.0000	98.2947
<b>Total</b>	<b>51.5864</b>	<b>1.5423</b>	<b>58.9197</b>	<b>8.6300e-003</b>		<b>0.3958</b>	<b>0.3958</b>		<b>0.3958</b>	<b>0.3958</b>	<b>0.0000</b>	<b>1,100.0972</b>	<b>1,100.0972</b>	<b>0.1109</b>	<b>0.0184</b>	<b>1,108.3550</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	731.8224	0.8105	0.4853	896.7150
Unmitigated	731.8224	0.8105	0.4853	896.7150

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	140.081 / 88.312	157.7757	0.1838	0.1105	195.3063
City Park	0 / 93.8887	35.3112	4.3200e-003	8.9000e-004	35.6858
Convenience Market (24 Hour)	0.244439 / 0.149818	0.2737	3.2000e-004	1.9000e-004	0.3392
Discount Club	14.4441 / 8.85286	16.1734	0.0189	0.0114	20.0423
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.8378 / 0.755605	10.8105	0.0152	9.2800e-003	13.9553

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	136.251 / 83.5085	152.5630	0.1787	0.1075	189.0578
Hardware/Paint Store	2.40736 / 1.47548	2.6956	3.1600e-003	1.9000e-003	3.3404
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	12.0368 / 7.37738	13.4779	0.0158	9.4900e-003	16.7019
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.28954 / 1.40327	2.5637	3.0000e-003	1.8100e-003	3.1769
Single Family Housing	230.645 / 145.407	259.7795	0.3027	0.1820	321.5740
Strip Mall	39.8214 / 24.4067	44.5889	0.0522	0.0314	55.2551
Supermarket	8.01243 / 0.247807	7.2180	0.0103	6.2800e-003	9.3455
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>731.8224</b>	<b>0.8105</b>	<b>0.4853</b>	<b>896.7150</b>

**7.2 Water by Land Use**

**Mitigated**



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	140.081 / 88.312	157.7757	0.1838	0.1105	195.3063
City Park	0 / 93.8887	35.3112	4.3200e-003	8.9000e-004	35.6858
Convenience Market (24 Hour)	0.244439 / 0.149818	0.2737	3.2000e-004	1.9000e-004	0.3392
Discount Club	14.4441 / 8.85286	16.1734	0.0189	0.0114	20.0423
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.8378 / 0.755605	10.8105	0.0152	9.2800e-003	13.9553
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	136.251 / 83.5085	152.5630	0.1787	0.1075	189.0578
Hardware/Paint Store	2.40736 / 1.47548	2.6956	3.1600e-003	1.9000e-003	3.3404
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	12.0368 / 7.37738	13.4779	0.0158	9.4900e-003	16.7019
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.28954 / 1.40327	2.5637	3.0000e-003	1.8100e-003	3.1769
Single Family Housing	230.645 / 145.407	259.7795	0.3027	0.1820	321.5740
Strip Mall	39.8214 / 24.4067	44.5889	0.0522	0.0314	55.2551
Supermarket	8.01243 / 0.247807	7.2180	0.0103	6.2800e-003	9.3455

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>731.8224</b>	<b>0.8105</b>	<b>0.4853</b>	<b>896.7150</b>

### 8.0 Waste Detail

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#### 8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,082.0255	123.0442	0.0000	5,158.1301
Unmitigated	2,082.0255	123.0442	0.0000	5,158.1301

#### 8.2 Waste by Land Use

Unmitigated

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	989	200.7581	11.8645	0.0000	497.3696
City Park	6.78	1.3763	0.0813	0.0000	3.4097
Convenience Market (24 Hour)	9.92	2.0137	0.1190	0.0000	4.9888
Discount Club	838.64	170.2363	10.0607	0.0000	421.7533
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	449.24	91.1917	5.3893	0.0000	225.9235
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	712.94	144.7204	8.5527	0.0000	358.5386
Hardware/Paint Store	360.4	73.1579	4.3235	0.0000	181.2457
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1801.99	365.7877	21.6174	0.0000	906.2235
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.73	19.8383	1.1724	0.0000	49.1486
Single Family Housing	3402.72	690.7214	40.8205	0.0000	1,711.2331
Strip Mall	564.48	114.5843	6.7717	0.0000	283.8779
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,082.0255</b>	<b>123.0442</b>	<b>0.0000</b>	<b>5,158.1301</b>

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	989	200.7581	11.8645	0.0000	497.3696
City Park	6.78	1.3763	0.0813	0.0000	3.4097
Convenience Market (24 Hour)	9.92	2.0137	0.1190	0.0000	4.9888
Discount Club	838.64	170.2363	10.0607	0.0000	421.7533
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	449.24	91.1917	5.3893	0.0000	225.9235
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	712.94	144.7204	8.5527	0.0000	358.5386
Hardware/Paint Store	360.4	73.1579	4.3235	0.0000	181.2457
High School	325	65.9721	3.8988	0.0000	163.4430

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Home Improvement Superstore	1801.99	365.7877	21.6174	0.0000	906.2235
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.73	19.8383	1.1724	0.0000	49.1486
Single Family Housing	3402.72	690.7214	40.8205	0.0000	1,711.2331
Strip Mall	564.48	114.5843	6.7717	0.0000	283.8779
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,082.0255</b>	<b>123.0442</b>	<b>0.0000</b>	<b>5,158.1301</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX J-5**  
**ALTERNATIVE 2 PEAK DAILY SUMMER CONSTRUCTION EMISSIONS**

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Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24**  
**Sacramento County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	766.60	1000sqft	21.36	766,600.00	0
Pharmacy/Drugstore with Drive Thru	32.50	1000sqft	1.20	32,500.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,213.00	0
Parking Lot	468.30	1000sqft	10.75	468,300.00	0
Parking Lot	390.30	1000sqft	8.96	390,300.00	0
Parking Lot	156.80	1000sqft	3.60	156,800.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	93.70	1000sqft	2.15	93,700.00	0
Parking Lot	273.10	1000sqft	6.27	273,100.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.40	1000sqft	0.17	7,400.00	0
Parking Lot	416.00	1000sqft	9.55	416,000.00	0
Parking Lot	343.20	1000sqft	7.88	343,200.00	0
Parking Lot	613.30	1000sqft	14.08	613,300.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
City Park	40.60	Acre	40.60	1,768,536.00	0
City Park	38.20	Acre	38.20	1,663,992.00	0
Fast Food Restaurant with Drive Thru	39.00	1000sqft	1.43	39,000.00	0
Apartments Mid Rise	2,050.00	Dwelling Unit	82.00	2,050,000.00	5474
Apartments Mid Rise	100.00	Dwelling Unit	11.82	178,600.00	267
Single Family Housing	3,540.00	Dwelling Unit	507.10	6,372,000.00	9452
Convenience Market (24 Hour)	3.30	1000sqft	0.12	3,300.00	0
Discount Club	195.00	1000sqft	7.16	195,000.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.11	3,000.00	0
Hardware/Paint Store	32.50	1000sqft	1.20	32,500.00	0
Home Improvement Superstore	162.50	1000sqft	5.97	162,500.00	0
Strip Mall	113.80	1000sqft	4.18	113,800.00	0
Strip Mall	173.40	1000sqft	6.37	173,400.00	0
Strip Mall	250.40	1000sqft	0.00	250,400.00	0
Supermarket	65.00	1000sqft	2.40	65,000.00	0

1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	236.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

1.3 User Entered Comments & Non-Default Data

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O are default for SMUD.

Land Use - Land use and acreages per Applicant. Acreage for Multi-use shopping entered as 0 per User Manual.

Construction Phase - Days adjusted to match 15-year construction plan.

Off-road Equipment - Default equipment.

Trips and VMT - Adjusted trips based on project design. Default Site Prep, Grading, Paving.

Grading - Graded acreage from land use.

Architectural Coating - Default coating.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	125.00
tblConstructionPhase	NumDays	1,395.00	322.00
tblConstructionPhase	NumDays	13,950.00	3,224.00
tblConstructionPhase	NumDays	990.00	229.00
tblConstructionPhase	NumDays	990.00	3,224.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,150.00
tblFireplaces	NumberGas	0.00	3,540.00
tblFireplaces	NumberNoFireplace	2,150.00	0.00
tblFireplaces	NumberNoFireplace	3,540.00	0.00
tblGrading	AcresOfGrading	805.00	905.00

## Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblLandUse	LandUseSquareFeet	0.00	70,213.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	17.60	21.36
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.90	1.43
tblLandUse	LotAcreage	2.63	11.82
tblLandUse	LotAcreage	53.95	82.00
tblLandUse	LotAcreage	1,149.35	507.10
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	4.48	7.16
tblLandUse	LotAcreage	0.08	0.11
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	3.73	5.97
tblLandUse	LotAcreage	2.61	4.18
tblLandUse	LotAcreage	3.98	6.37
tblLandUse	LotAcreage	5.75	0.00
tblLandUse	LotAcreage	1.49	2.40
tblProjectCharacteristics	CO2IntensityFactor	590.31	236.9
tblTripsAndVMT	VendorTripNumber	2,167.00	1,018.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	6,636.00	4,193.00

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

tblTripsAndVMT	:	WorkerTripNumber	:	1,327.00	:	839.00
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## 2.0 Emissions Summary

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### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5363	50.2433	32.6113	0.0636	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	6,164.5679	6,164.5679	1.9470	0.0000	6,213.2420
2021	4.2713	46.4409	31.4768	0.0636	9.1548	1.9864	11.1412	3.6724	1.8275	5.4999	0.0000	6,160.3393	6,160.3393	1.9469	0.0000	6,209.0112
2022	64.2258	123.5185	180.8643	0.6522	44.4032	1.3880	45.7912	11.9161	1.3097	13.2258	0.0000	66,408.0763	66,408.0763	2.9656	0.0000	66,482.2171
2023	62.2376	106.5030	166.9979	0.6333	44.4025	1.1319	45.5345	11.9159	1.0662	12.9820	0.0000	64,522.4564	64,522.4564	2.7206	0.0000	64,590.4709
2024	60.9440	103.1312	156.2957	0.6177	44.4020	1.0246	45.4265	11.9156	0.9643	12.8800	0.0000	62,978.5165	62,978.5165	2.6196	0.0000	63,044.0058
2025	59.8047	99.9154	146.5748	0.6023	44.4014	0.9195	45.3209	11.9154	0.8649	12.7803	0.0000	61,453.8678	61,453.8678	2.5313	0.0000	61,517.1493
2026	58.8927	97.9195	138.2625	0.5885	44.4009	0.9071	45.3080	11.9153	0.8532	12.7685	0.0000	60,087.2631	60,087.2631	2.4575	0.0000	60,148.7013
2027	58.0107	96.0981	130.7923	0.5761	44.4005	0.8912	45.2917	11.9151	0.8384	12.7535	0.0000	58,859.1185	58,859.1185	2.3900	0.0000	58,918.8693
2028	57.1211	94.5227	124.2349	0.5651	44.4001	0.8726	45.2728	11.9150	0.8211	12.7361	0.0000	57,773.9928	57,773.9928	2.3300	0.0000	57,832.2425
2029	56.1664	93.0321	118.0332	0.5554	44.3998	0.8545	45.2544	11.9148	0.8043	12.7192	0.0000	56,810.6856	56,810.6856	2.2722	0.0000	56,867.4917
2030	55.1461	86.8274	112.5628	0.5509	44.3995	0.4268	44.8263	11.9147	0.4091	12.3238	0.0000	56,302.7639	56,302.7639	1.7303	0.0000	56,346.0215
2031	54.1849	85.5600	107.3625	0.5434	44.3993	0.4107	44.8100	11.9146	0.3942	12.3088	0.0000	55,561.2524	55,561.2524	1.6815	0.0000	55,603.2891
2032	53.3244	84.4058	102.8117	0.5369	44.3991	0.3963	44.7954	11.9146	0.3808	12.2953	0.0000	54,920.0788	54,920.0788	1.6388	0.0000	54,961.0494
2033	52.6175	83.4026	98.9713	0.5313	44.3989	0.3835	44.7824	11.9145	0.3689	12.2834	0.0000	54,366.7144	54,366.7144	1.6028	0.0000	54,406.7837
2034	51.9780	82.4927	95.3469	0.5265	44.3988	0.3714	44.7701	11.9145	0.3577	12.2721	0.0000	53,890.2862	53,890.2862	1.5691	0.0000	53,929.5140
<b>Maximum</b>	<b>64.2258</b>	<b>123.5185</b>	<b>180.8643</b>	<b>0.6522</b>	<b>44.4032</b>	<b>2.1984</b>	<b>45.7912</b>	<b>11.9161</b>	<b>2.0225</b>	<b>13.2258</b>	<b>0.0000</b>	<b>66,408.0763</b>	<b>66,408.0763</b>	<b>2.9656</b>	<b>0.0000</b>	<b>66,482.2171</b>

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

**Mitigated Construction**

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5363	50.2433	32.6113	0.0636	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	6,164.5679	6,164.5679	1.9470	0.0000	6,213.2420
2021	4.2713	46.4409	31.4768	0.0636	9.1548	1.9864	11.1412	3.6724	1.8275	5.4999	0.0000	6,160.3392	6,160.3392	1.9469	0.0000	6,209.0112
2022	64.2258	123.5185	180.8643	0.6522	44.4032	1.3880	45.7912	11.9161	1.3097	13.2258	0.0000	66,408.0763	66,408.0763	2.9656	0.0000	66,482.2171
2023	62.2376	106.5030	166.9979	0.6333	44.4025	1.1319	45.5345	11.9159	1.0662	12.9820	0.0000	64,522.4564	64,522.4564	2.7206	0.0000	64,590.4709
2024	60.9440	103.1312	156.2957	0.6177	44.4020	1.0246	45.4265	11.9156	0.9643	12.8800	0.0000	62,978.5165	62,978.5165	2.6196	0.0000	63,044.0058
2025	59.8047	99.9154	146.5748	0.6023	44.4014	0.9195	45.3209	11.9154	0.8649	12.7803	0.0000	61,453.8678	61,453.8678	2.5313	0.0000	61,517.1493
2026	58.8927	97.9195	138.2625	0.5885	44.4009	0.9071	45.3080	11.9153	0.8532	12.7685	0.0000	60,087.2631	60,087.2631	2.4575	0.0000	60,148.7013
2027	58.0107	96.0981	130.7923	0.5761	44.4005	0.8912	45.2917	11.9151	0.8384	12.7535	0.0000	58,859.1185	58,859.1185	2.3900	0.0000	58,918.8693
2028	57.1211	94.5227	124.2349	0.5651	44.4001	0.8726	45.2728	11.9150	0.8211	12.7361	0.0000	57,773.9928	57,773.9928	2.3300	0.0000	57,832.2425
2029	56.1664	93.0321	118.0332	0.5554	44.3998	0.8545	45.2544	11.9148	0.8043	12.7192	0.0000	56,810.6856	56,810.6856	2.2722	0.0000	56,867.4917
2030	55.1461	86.8274	112.5628	0.5509	44.3995	0.4268	44.8263	11.9147	0.4091	12.3238	0.0000	56,302.7639	56,302.7639	1.7303	0.0000	56,346.0214
2031	54.1849	85.5600	107.3625	0.5434	44.3993	0.4107	44.8100	11.9146	0.3942	12.3088	0.0000	55,561.2524	55,561.2524	1.6815	0.0000	55,603.2891
2032	53.3244	84.4058	102.8117	0.5369	44.3991	0.3963	44.7954	11.9146	0.3808	12.2953	0.0000	54,920.0788	54,920.0788	1.6388	0.0000	54,961.0494
2033	52.6175	83.4026	98.9713	0.5313	44.3989	0.3835	44.7824	11.9145	0.3689	12.2834	0.0000	54,366.7144	54,366.7144	1.6028	0.0000	54,406.7837
2034	51.9780	82.4927	95.3469	0.5265	44.3988	0.3714	44.7701	11.9145	0.3577	12.2721	0.0000	53,890.2862	53,890.2862	1.5691	0.0000	53,929.5140
<b>Maximum</b>	<b>64.2258</b>	<b>123.5185</b>	<b>180.8643</b>	<b>0.6522</b>	<b>44.4032</b>	<b>2.1984</b>	<b>45.7912</b>	<b>11.9161</b>	<b>2.0225</b>	<b>13.2258</b>	<b>0.0000</b>	<b>66,408.0763</b>	<b>66,408.0763</b>	<b>2.9656</b>	<b>0.0000</b>	<b>66,482.2171</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Energy	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.96 39	46,364.96 39	0.8887	0.8500	46,640.48 77
Mobile	152.6979	593.9409	1,181.153 3	5.0237	540.9455	2.5078	543.4533	144.4241	2.3286	146.7528		512,405.7 570	512,405.7 570	19.3836		512,890.3 468
<b>Total</b>	<b>448.5551</b>	<b>679.5198</b>	<b>1,687.176 8</b>	<b>5.5570</b>	<b>540.9455</b>	<b>11.5546</b>	<b>552.5002</b>	<b>144.4241</b>	<b>11.3755</b>	<b>155.7996</b>	<b>0.0000</b>	<b>614,958.5 057</b>	<b>614,958.5 057</b>	<b>22.1411</b>	<b>1.8646</b>	<b>616,067.6 870</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Energy	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.49 24	40,647.49 24	0.7791	0.7452	40,889.04 01
Mobile	152.6979	593.9409	1,181.153 3	5.0237	540.9455	2.5078	543.4533	144.4241	2.3286	146.7528		512,405.7 570	512,405.7 570	19.3836		512,890.3 468
<b>Total</b>	<b>448.0310</b>	<b>674.9837</b>	<b>1,684.850 4</b>	<b>5.5284</b>	<b>540.9455</b>	<b>11.1925</b>	<b>552.1380</b>	<b>144.4241</b>	<b>11.0134</b>	<b>155.4375</b>	<b>0.0000</b>	<b>609,241.0 341</b>	<b>609,241.0 341</b>	<b>22.0315</b>	<b>1.7598</b>	<b>610,316.2 393</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.12	0.67	0.14	0.51	0.00	3.13	0.07	0.00	3.18	0.23	0.00	0.93	0.93	0.49	5.62	0.93

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	6/23/2020	5	125	
3	Grading	Grading	6/24/2020	9/16/2021	5	322	
4	Building Construction	Building Construction	8/4/2022	12/12/2034	5	3224	
5	Paving	Paving	9/17/2021	8/3/2022	5	229	
6	Architectural Coating	Architectural Coating	8/22/2022	12/28/2034	5	3224	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 905

Acres of Paving: 84.67

Residential Indoor: 17,416,215; Residential Outdoor: 5,805,405; Non-Residential Indoor: 3,583,070; Non-Residential Outdoor: 1,194,357; Striped Parking Area: 221,292 (Architectural Coating – sqft)

#### OffRoad Equipment

## Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	4,193.00	1,018.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	839.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2020**

**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	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.3 Site Preparation - 2020**

**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	0.0776	0.0412	0.5877	1.4400e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		142.8323	142.8323	4.0900e-003		142.9346
<b>Total</b>	<b>0.0776</b>	<b>0.0412</b>	<b>0.5877</b>	<b>1.4400e-003</b>	<b>0.1369</b>	<b>9.5000e-004</b>	<b>0.1379</b>	<b>0.0363</b>	<b>8.8000e-004</b>	<b>0.0372</b>		<b>142.8323</b>	<b>142.8323</b>	<b>4.0900e-003</b>		<b>142.9346</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.3 Site Preparation - 2020**

**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	0.0776	0.0412	0.5877	1.4400e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		142.8323	142.8323	4.0900e-003		142.9346
<b>Total</b>	<b>0.0776</b>	<b>0.0412</b>	<b>0.5877</b>	<b>1.4400e-003</b>	<b>0.1369</b>	<b>9.5000e-004</b>	<b>0.1379</b>	<b>0.0363</b>	<b>8.8000e-004</b>	<b>0.0372</b>		<b>142.8323</b>	<b>142.8323</b>	<b>4.0900e-003</b>		<b>142.9346</b>

**3.4 Grading - 2020**

**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					9.0027	0.0000	9.0027	3.6321	0.0000	3.6321			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>9.0027</b>	<b>2.1739</b>	<b>11.1766</b>	<b>3.6321</b>	<b>2.0000</b>	<b>5.6321</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.4 Grading - 2020**

**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	0.0862	0.0458	0.6530	1.5900e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		158.7026	158.7026	4.5500e-003		158.8163
<b>Total</b>	<b>0.0862</b>	<b>0.0458</b>	<b>0.6530</b>	<b>1.5900e-003</b>	<b>0.1521</b>	<b>1.0600e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.7000e-004</b>	<b>0.0413</b>		<b>158.7026</b>	<b>158.7026</b>	<b>4.5500e-003</b>		<b>158.8163</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0027	0.0000	9.0027	3.6321	0.0000	3.6321			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>9.0027</b>	<b>2.1739</b>	<b>11.1766</b>	<b>3.6321</b>	<b>2.0000</b>	<b>5.6321</b>	<b>0.0000</b>	<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.4 Grading - 2020**

**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	0.0862	0.0458	0.6530	1.5900e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		158.7026	158.7026	4.5500e-003		158.8163
<b>Total</b>	<b>0.0862</b>	<b>0.0458</b>	<b>0.6530</b>	<b>1.5900e-003</b>	<b>0.1521</b>	<b>1.0600e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.7000e-004</b>	<b>0.0413</b>		<b>158.7026</b>	<b>158.7026</b>	<b>4.5500e-003</b>		<b>158.8163</b>

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0027	0.0000	9.0027	3.6321	0.0000	3.6321			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>9.0027</b>	<b>1.9853</b>	<b>10.9880</b>	<b>3.6321</b>	<b>1.8265</b>	<b>5.4586</b>		<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.4 Grading - 2021**

**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	0.0802	0.0410	0.5983	1.5400e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		153.2958	153.2958	4.0800e-003		153.3978
<b>Total</b>	<b>0.0802</b>	<b>0.0410</b>	<b>0.5983</b>	<b>1.5400e-003</b>	<b>0.1521</b>	<b>1.0300e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.5000e-004</b>	<b>0.0413</b>		<b>153.2958</b>	<b>153.2958</b>	<b>4.0800e-003</b>		<b>153.3978</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0027	0.0000	9.0027	3.6321	0.0000	3.6321			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>9.0027</b>	<b>1.9853</b>	<b>10.9880</b>	<b>3.6321</b>	<b>1.8265</b>	<b>5.4586</b>	<b>0.0000</b>	<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.4 Grading - 2021**

**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	0.0802	0.0410	0.5983	1.5400e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		153.2958	153.2958	4.0800e-003		153.3978
<b>Total</b>	<b>0.0802</b>	<b>0.0410</b>	<b>0.5983</b>	<b>1.5400e-003</b>	<b>0.1521</b>	<b>1.0300e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.5000e-004</b>	<b>0.0413</b>		<b>153.2958</b>	<b>153.2958</b>	<b>4.0800e-003</b>		<b>153.3978</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2022**

**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	2.9190	97.2091	24.0562	0.2489	6.1248	0.2457	6.3705	1.7624	0.2349	1.9973		26,386.25 57	26,386.25 57	1.4128		26,421.57 67
Worker	15.6862	7.7370	115.5167	0.3111	31.8961	0.2097	32.1058	8.4607	0.1932	8.6539		30,985.90 25	30,985.90 25	0.7687		31,005.12 02
<b>Total</b>	<b>18.6051</b>	<b>104.9462</b>	<b>139.5729</b>	<b>0.5600</b>	<b>38.0210</b>	<b>0.4553</b>	<b>38.4763</b>	<b>10.2231</b>	<b>0.4281</b>	<b>10.6513</b>		<b>57,372.15 82</b>	<b>57,372.15 82</b>	<b>2.1816</b>		<b>57,426.69 69</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.333 6</b>	<b>2,554.333 6</b>	<b>0.6120</b>		<b>2,569.632 2</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2022**

**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	2.9190	97.2091	24.0562	0.2489	6.1248	0.2457	6.3705	1.7624	0.2349	1.9973		26,386.25 57	26,386.25 57	1.4128		26,421.57 67
Worker	15.6862	7.7370	115.5167	0.3111	31.8961	0.2097	32.1058	8.4607	0.1932	8.6539		30,985.90 25	30,985.90 25	0.7687		31,005.12 02
<b>Total</b>	<b>18.6051</b>	<b>104.9462</b>	<b>139.5729</b>	<b>0.5600</b>	<b>38.0210</b>	<b>0.4553</b>	<b>38.4763</b>	<b>10.2231</b>	<b>0.4281</b>	<b>10.6513</b>		<b>57,372.15 82</b>	<b>57,372.15 82</b>	<b>2.1816</b>		<b>57,426.69 69</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.209 9</b>	<b>2,555.209 9</b>	<b>0.6079</b>		<b>2,570.406 1</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.3067	82.4571	21.3396	0.2441	6.1241	0.1159	6.2400	1.7622	0.1108	1.8729		25,897.80 10	25,897.80 10	1.2689		25,929.52 46
Worker	14.6616	6.9645	106.3276	0.2994	31.8961	0.2046	32.1007	8.4607	0.1885	8.6492		29,820.96 05	29,820.96 05	0.6891		29,838.18 73
<b>Total</b>	<b>16.9683</b>	<b>89.4215</b>	<b>127.6672</b>	<b>0.5435</b>	<b>38.0203</b>	<b>0.3205</b>	<b>38.3407</b>	<b>10.2229</b>	<b>0.2992</b>	<b>10.5221</b>		<b>55,718.76 15</b>	<b>55,718.76 15</b>	<b>1.9580</b>		<b>55,767.71 19</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.209 9</b>	<b>2,555.209 9</b>	<b>0.6079</b>		<b>2,570.406 1</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.3067	82.4571	21.3396	0.2441	6.1241	0.1159	6.2400	1.7622	0.1108	1.8729		25,897.80 10	25,897.80 10	1.2689		25,929.52 46
Worker	14.6616	6.9645	106.3276	0.2994	31.8961	0.2046	32.1007	8.4607	0.1885	8.6492		29,820.96 05	29,820.96 05	0.6891		29,838.18 73
<b>Total</b>	<b>16.9683</b>	<b>89.4215</b>	<b>127.6672</b>	<b>0.5435</b>	<b>38.0203</b>	<b>0.3205</b>	<b>38.3407</b>	<b>10.2229</b>	<b>0.2992</b>	<b>10.5221</b>		<b>55,718.76 15</b>	<b>55,718.76 15</b>	<b>1.9580</b>		<b>55,767.71 19</b>

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.698 9</b>	<b>2,555.698 9</b>	<b>0.6044</b>		<b>2,570.807 7</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.1979	80.9119	19.9460	0.2425	6.1236	0.1102	6.2338	1.7619	0.1054	1.8673		25,746.3904	25,746.3904	1.2534		25,777.7248
Worker	13.7678	6.2968	98.6361	0.2876	31.8961	0.2001	32.0962	8.4607	0.1843	8.6450		28,660.2041	28,660.2041	0.6216		28,675.7446
<b>Total</b>	<b>15.9657</b>	<b>87.2086</b>	<b>118.5821</b>	<b>0.5302</b>	<b>38.0197</b>	<b>0.3103</b>	<b>38.3300</b>	<b>10.2227</b>	<b>0.2896</b>	<b>10.5123</b>		<b>54,406.5946</b>	<b>54,406.5946</b>	<b>1.8750</b>		<b>54,453.4694</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.1979	80.9119	19.9460	0.2425	6.1236	0.1102	6.2338	1.7619	0.1054	1.8673		25,746.3904	25,746.3904	1.2534		25,777.7248
Worker	13.7678	6.2968	98.6361	0.2876	31.8961	0.2001	32.0962	8.4607	0.1843	8.6450		28,660.2041	28,660.2041	0.6216		28,675.7446
<b>Total</b>	<b>15.9657</b>	<b>87.2086</b>	<b>118.5821</b>	<b>0.5302</b>	<b>38.0197</b>	<b>0.3103</b>	<b>38.3300</b>	<b>10.2227</b>	<b>0.2896</b>	<b>10.5123</b>		<b>54,406.5946</b>	<b>54,406.5946</b>	<b>1.8750</b>		<b>54,453.4694</b>

**3.5 Building Construction - 2025**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2025**

**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	2.1080	79.4364	18.8864	0.2410	6.1230	0.1047	6.2278	1.7617	0.1002	1.8619		25,599.8285	25,599.8285	1.2386		25,630.7945
Worker	12.9885	5.7194	91.4882	0.2761	31.8961	0.1964	32.0925	8.4607	0.1808	8.6415		27,511.2437	27,511.2437	0.5636		27,525.3325
<b>Total</b>	<b>15.0964</b>	<b>85.1558</b>	<b>110.3746</b>	<b>0.5171</b>	<b>38.0191</b>	<b>0.3011</b>	<b>38.3202</b>	<b>10.2225</b>	<b>0.2809</b>	<b>10.5034</b>		<b>53,111.0721</b>	<b>53,111.0721</b>	<b>1.8022</b>		<b>53,156.1270</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2025**

**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	2.1080	79.4364	18.8864	0.2410	6.1230	0.1047	6.2278	1.7617	0.1002	1.8619		25,599.8285	25,599.8285	1.2386		25,630.7945
Worker	12.9885	5.7194	91.4882	0.2761	31.8961	0.1964	32.0925	8.4607	0.1808	8.6415		27,511.2437	27,511.2437	0.5636		27,525.3325
<b>Total</b>	<b>15.0964</b>	<b>85.1558</b>	<b>110.3746</b>	<b>0.5171</b>	<b>38.0191</b>	<b>0.3011</b>	<b>38.3202</b>	<b>10.2225</b>	<b>0.2809</b>	<b>10.5034</b>		<b>53,111.0721</b>	<b>53,111.0721</b>	<b>1.8022</b>		<b>53,156.1270</b>

**3.5 Building Construction - 2026**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2026**

**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	2.0287	78.0325	18.0268	0.2396	6.1225	0.0993	6.2218	1.7616	0.0949	1.8565		25,460.46 54	25,460.46 54	1.2253		25,491.09 72
Worker	12.2946	5.2261	85.2782	0.2658	31.8961	0.1906	32.0867	8.4607	0.1755	8.6362		26,488.62 36	26,488.62 36	0.5133		26,501.45 50
<b>Total</b>	<b>14.3233</b>	<b>83.2586</b>	<b>103.3049</b>	<b>0.5054</b>	<b>38.0187</b>	<b>0.2899</b>	<b>38.3085</b>	<b>10.2223</b>	<b>0.2704</b>	<b>10.4927</b>		<b>51,949.08 90</b>	<b>51,949.08 90</b>	<b>1.7385</b>		<b>51,992.55 22</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2026**

**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	2.0287	78.0325	18.0268	0.2396	6.1225	0.0993	6.2218	1.7616	0.0949	1.8565		25,460.46 54	25,460.46 54	1.2253		25,491.09 72
Worker	12.2946	5.2261	85.2782	0.2658	31.8961	0.1906	32.0867	8.4607	0.1755	8.6362		26,488.62 36	26,488.62 36	0.5133		26,501.45 50
<b>Total</b>	<b>14.3233</b>	<b>83.2586</b>	<b>103.3049</b>	<b>0.5054</b>	<b>38.0187</b>	<b>0.2899</b>	<b>38.3085</b>	<b>10.2223</b>	<b>0.2704</b>	<b>10.4927</b>		<b>51,949.08 90</b>	<b>51,949.08 90</b>	<b>1.7385</b>		<b>51,992.55 22</b>

**3.5 Building Construction - 2027**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2027**

**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	1.9589	76.7425	17.2798	0.2383	6.1221	0.0946	6.2167	1.7614	0.0905	1.8519		25,329.46 13	25,329.46 13	1.2122		25,359.76 71
Worker	11.6178	4.7834	79.6759	0.2565	31.8961	0.1812	32.0774	8.4607	0.1668	8.6275		25,574.41 26	25,574.41 26	0.4679		25,586.10 95
<b>Total</b>	<b>13.5767</b>	<b>81.5258</b>	<b>96.9557</b>	<b>0.4948</b>	<b>38.0182</b>	<b>0.2759</b>	<b>38.2941</b>	<b>10.2221</b>	<b>0.2573</b>	<b>10.4794</b>		<b>50,903.87 38</b>	<b>50,903.87 38</b>	<b>1.6801</b>		<b>50,945.87 66</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2027**

**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	1.9589	76.7425	17.2798	0.2383	6.1221	0.0946	6.2167	1.7614	0.0905	1.8519		25,329.46 13	25,329.46 13	1.2122		25,359.76 71
Worker	11.6178	4.7834	79.6759	0.2565	31.8961	0.1812	32.0774	8.4607	0.1668	8.6275		25,574.41 26	25,574.41 26	0.4679		25,586.10 95
<b>Total</b>	<b>13.5767</b>	<b>81.5258</b>	<b>96.9557</b>	<b>0.4948</b>	<b>38.0182</b>	<b>0.2759</b>	<b>38.2941</b>	<b>10.2221</b>	<b>0.2573</b>	<b>10.4794</b>		<b>50,903.87 38</b>	<b>50,903.87 38</b>	<b>1.6801</b>		<b>50,945.87 66</b>

**3.5 Building Construction - 2028**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2028**

**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	1.8974	75.6387	16.6509	0.2372	6.1218	0.0906	6.2123	1.7613	0.0866	1.8478		25,217.3781	25,217.3781	1.1991		25,247.3551
Worker	10.9277	4.3903	74.7360	0.2484	31.8961	0.1691	32.0653	8.4607	0.1557	8.6164		24,763.6083	24,763.6083	0.4288		24,774.3284
<b>Total</b>	<b>12.8251</b>	<b>80.0291</b>	<b>91.3868</b>	<b>0.4855</b>	<b>38.0179</b>	<b>0.2597</b>	<b>38.2776</b>	<b>10.2220</b>	<b>0.2422</b>	<b>10.4642</b>		<b>49,980.9864</b>	<b>49,980.9864</b>	<b>1.6279</b>		<b>50,021.6835</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2028**

**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	1.8974	75.6387	16.6509	0.2372	6.1218	0.0906	6.2123	1.7613	0.0866	1.8478		25,217.3781	25,217.3781	1.1991		25,247.3551
Worker	10.9277	4.3903	74.7360	0.2484	31.8961	0.1691	32.0653	8.4607	0.1557	8.6164		24,763.6083	24,763.6083	0.4288		24,774.3284
<b>Total</b>	<b>12.8251</b>	<b>80.0291</b>	<b>91.3868</b>	<b>0.4855</b>	<b>38.0179</b>	<b>0.2597</b>	<b>38.2776</b>	<b>10.2220</b>	<b>0.2422</b>	<b>10.4642</b>		<b>49,980.9864</b>	<b>49,980.9864</b>	<b>1.6279</b>		<b>50,021.6835</b>

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2029**

**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	1.8418	74.5874	16.1265	0.2361	6.1214	0.0864	6.2078	1.7611	0.0826	1.8437		25,115.3698	25,115.3698	1.1860		25,145.0190
Worker	10.1785	4.0243	70.0051	0.2411	31.8961	0.1575	32.0537	8.4607	0.1450	8.6057		24,045.9163	24,045.9163	0.3916		24,055.7066
<b>Total</b>	<b>12.0203</b>	<b>78.6117</b>	<b>86.1317</b>	<b>0.4773</b>	<b>38.0175</b>	<b>0.2439</b>	<b>38.2615</b>	<b>10.2219</b>	<b>0.2276</b>	<b>10.4495</b>		<b>49,161.2860</b>	<b>49,161.2860</b>	<b>1.5776</b>		<b>49,200.7256</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2029**

**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	1.8418	74.5874	16.1265	0.2361	6.1214	0.0864	6.2078	1.7611	0.0826	1.8437		25,115.3698	25,115.3698	1.1860		25,145.0190
Worker	10.1785	4.0243	70.0051	0.2411	31.8961	0.1575	32.0537	8.4607	0.1450	8.6057		24,045.9163	24,045.9163	0.3916		24,055.7066
<b>Total</b>	<b>12.0203</b>	<b>78.6117</b>	<b>86.1317</b>	<b>0.4773</b>	<b>38.0175</b>	<b>0.2439</b>	<b>38.2615</b>	<b>10.2219</b>	<b>0.2276</b>	<b>10.4495</b>		<b>49,161.2860</b>	<b>49,161.2860</b>	<b>1.5776</b>		<b>49,200.7256</b>

**3.5 Building Construction - 2030**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2030**

**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	1.7918	73.6033	15.6962	0.2352	6.1211	0.0822	6.2033	1.7610	0.0786	1.8396		25,024.47 19	25,024.47 19	1.1724		25,053.78 12
Worker	9.4520	3.6940	65.7547	0.2347	31.8961	0.1468	32.0429	8.4607	0.1350	8.5958		23,414.21 96	23,414.21 96	0.3586		23,423.18 34
<b>Total</b>	<b>11.2438</b>	<b>77.2973</b>	<b>81.4509</b>	<b>0.4700</b>	<b>38.0173</b>	<b>0.2290</b>	<b>38.2462</b>	<b>10.2218</b>	<b>0.2136</b>	<b>10.4354</b>		<b>48,438.69 15</b>	<b>48,438.69 15</b>	<b>1.5309</b>		<b>48,476.96 46</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2030**

**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	1.7918	73.6033	15.6962	0.2352	6.1211	0.0822	6.2033	1.7610	0.0786	1.8396		25,024.47 19	25,024.47 19	1.1724		25,053.78 12
Worker	9.4520	3.6940	65.7547	0.2347	31.8961	0.1468	32.0429	8.4607	0.1350	8.5958		23,414.21 96	23,414.21 96	0.3586		23,423.18 34
<b>Total</b>	<b>11.2438</b>	<b>77.2973</b>	<b>81.4509</b>	<b>0.4700</b>	<b>38.0173</b>	<b>0.2290</b>	<b>38.2462</b>	<b>10.2218</b>	<b>0.2136</b>	<b>10.4354</b>		<b>48,438.69 15</b>	<b>48,438.69 15</b>	<b>1.5309</b>		<b>48,476.96 46</b>

**3.5 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2031**

**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	1.7494	72.7095	15.3445	0.2345	6.1209	0.0785	6.1994	1.7609	0.0750	1.8360		24,947.30 01	24,947.30 01	1.1606		24,976.31 58
Worker	8.6864	3.3827	61.7145	0.2291	31.8961	0.1365	32.0326	8.4607	0.1256	8.5863		22,860.64 73	22,860.64 73	0.3276		22,868.83 83
<b>Total</b>	<b>10.4358</b>	<b>76.0922</b>	<b>77.0590</b>	<b>0.4636</b>	<b>38.0170</b>	<b>0.2150</b>	<b>38.2320</b>	<b>10.2217</b>	<b>0.2006</b>	<b>10.4223</b>		<b>47,807.94 73</b>	<b>47,807.94 73</b>	<b>1.4883</b>		<b>47,845.15 42</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2031**

**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	1.7494	72.7095	15.3445	0.2345	6.1209	0.0785	6.1994	1.7609	0.0750	1.8360		24,947.30 01	24,947.30 01	1.1606		24,976.31 58
Worker	8.6864	3.3827	61.7145	0.2291	31.8961	0.1365	32.0326	8.4607	0.1256	8.5863		22,860.64 73	22,860.64 73	0.3276		22,868.83 83
<b>Total</b>	<b>10.4358</b>	<b>76.0922</b>	<b>77.0590</b>	<b>0.4636</b>	<b>38.0170</b>	<b>0.2150</b>	<b>38.2320</b>	<b>10.2217</b>	<b>0.2006</b>	<b>10.4223</b>		<b>47,807.94 73</b>	<b>47,807.94 73</b>	<b>1.4883</b>		<b>47,845.15 42</b>

**3.5 Building Construction - 2032**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2032**

**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	1.7141	71.8777	15.0662	0.2338	6.1207	0.0754	6.1961	1.7609	0.0721	1.8330		24,884.38 23	24,884.38 23	1.1503		24,913.13 93
Worker	7.9988	3.1141	58.1544	0.2243	31.8961	0.1270	32.0231	8.4607	0.1168	8.5776		22,378.80 57	22,378.80 57	0.3007		22,386.32 41
<b>Total</b>	<b>9.7129</b>	<b>74.9918</b>	<b>73.2206</b>	<b>0.4581</b>	<b>38.0168</b>	<b>0.2024</b>	<b>38.2192</b>	<b>10.2216</b>	<b>0.1889</b>	<b>10.4105</b>		<b>47,263.18 80</b>	<b>47,263.18 80</b>	<b>1.4510</b>		<b>47,299.46 33</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2032**

**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	1.7141	71.8777	15.0662	0.2338	6.1207	0.0754	6.1961	1.7609	0.0721	1.8330		24,884.38 23	24,884.38 23	1.1503		24,913.13 93
Worker	7.9988	3.1141	58.1544	0.2243	31.8961	0.1270	32.0231	8.4607	0.1168	8.5776		22,378.80 57	22,378.80 57	0.3007		22,386.32 41
<b>Total</b>	<b>9.7129</b>	<b>74.9918</b>	<b>73.2206</b>	<b>0.4581</b>	<b>38.0168</b>	<b>0.2024</b>	<b>38.2192</b>	<b>10.2216</b>	<b>0.1889</b>	<b>10.4105</b>		<b>47,263.18 80</b>	<b>47,263.18 80</b>	<b>1.4510</b>		<b>47,299.46 33</b>

**3.5 Building Construction - 2033**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2033**

**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	1.6842	71.1391	14.8301	0.2333	6.1205	0.0729	6.1934	1.7608	0.0697	1.8305		24,829.57 51	24,829.57 51	1.1411		24,858.10 31
Worker	7.4346	2.8936	55.1510	0.2201	31.8961	0.1184	32.0146	8.4607	0.1090	8.5697		21,963.37 44	21,963.37 44	0.2783		21,970.33 26
<b>Total</b>	<b>9.1188</b>	<b>74.0327</b>	<b>69.9811</b>	<b>0.4534</b>	<b>38.0166</b>	<b>0.1913</b>	<b>38.2079</b>	<b>10.2215</b>	<b>0.1786</b>	<b>10.4002</b>		<b>46,792.94 95</b>	<b>46,792.94 95</b>	<b>1.4195</b>		<b>46,828.43 56</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2033**

**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	1.6842	71.1391	14.8301	0.2333	6.1205	0.0729	6.1934	1.7608	0.0697	1.8305		24,829.57 51	24,829.57 51	1.1411		24,858.10 31
Worker	7.4346	2.8936	55.1510	0.2201	31.8961	0.1184	32.0146	8.4607	0.1090	8.5697		21,963.37 44	21,963.37 44	0.2783		21,970.33 26
<b>Total</b>	<b>9.1188</b>	<b>74.0327</b>	<b>69.9811</b>	<b>0.4534</b>	<b>38.0166</b>	<b>0.1913</b>	<b>38.2079</b>	<b>10.2215</b>	<b>0.1786</b>	<b>10.4002</b>		<b>46,792.94 95</b>	<b>46,792.94 95</b>	<b>1.4195</b>		<b>46,828.43 56</b>

**3.5 Building Construction - 2034**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2034**

**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	1.6566	70.4552	14.6151	0.2328	6.1204	0.0704	6.1907	1.7608	0.0673	1.8280		24,783.7976	24,783.7976	1.1325		24,812.1111
Worker	6.9248	2.7053	52.3101	0.2165	31.8961	0.1105	32.0066	8.4607	0.1016	8.5624		21,604.5274	21,604.5274	0.2574		21,610.9629
<b>Total</b>	<b>8.5814</b>	<b>73.1605</b>	<b>66.9252</b>	<b>0.4493</b>	<b>38.0165</b>	<b>0.1808</b>	<b>38.1973</b>	<b>10.2215</b>	<b>0.1689</b>	<b>10.3904</b>		<b>46,388.3249</b>	<b>46,388.3249</b>	<b>1.3900</b>		<b>46,423.0741</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.5 Building Construction - 2034**

**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	1.6566	70.4552	14.6151	0.2328	6.1204	0.0704	6.1907	1.7608	0.0673	1.8280		24,783.7976	24,783.7976	1.1325		24,812.1111
Worker	6.9248	2.7053	52.3101	0.2165	31.8961	0.1105	32.0066	8.4607	0.1016	8.5624		21,604.5274	21,604.5274	0.2574		21,610.9629
<b>Total</b>	<b>8.5814</b>	<b>73.1605</b>	<b>66.9252</b>	<b>0.4493</b>	<b>38.0165</b>	<b>0.1808</b>	<b>38.1973</b>	<b>10.2215</b>	<b>0.1689</b>	<b>10.3904</b>		<b>46,388.3249</b>	<b>46,388.3249</b>	<b>1.3900</b>		<b>46,423.0741</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2243</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Paving - 2021**

**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	0.0601	0.0308	0.4487	1.1500e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		114.9719	114.9719	3.0600e-003		115.0483
<b>Total</b>	<b>0.0601</b>	<b>0.0308</b>	<b>0.4487</b>	<b>1.1500e-003</b>	<b>0.1141</b>	<b>7.7000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.1000e-004</b>	<b>0.0310</b>		<b>114.9719</b>	<b>114.9719</b>	<b>3.0600e-003</b>		<b>115.0483</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2243</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Paving - 2021**

**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	0.0601	0.0308	0.4487	1.1500e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		114.9719	114.9719	3.0600e-003		115.0483
<b>Total</b>	<b>0.0601</b>	<b>0.0308</b>	<b>0.4487</b>	<b>1.1500e-003</b>	<b>0.1141</b>	<b>7.7000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.1000e-004</b>	<b>0.0310</b>		<b>114.9719</b>	<b>114.9719</b>	<b>3.0600e-003</b>		<b>115.0483</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0715</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Paving - 2022**

**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	0.0561	0.0277	0.4133	1.1100e-003	0.1141	7.5000e-004	0.1149	0.0303	6.9000e-004	0.0310		110.8487	110.8487	2.7500e-003		110.9174
<b>Total</b>	<b>0.0561</b>	<b>0.0277</b>	<b>0.4133</b>	<b>1.1100e-003</b>	<b>0.1141</b>	<b>7.5000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>6.9000e-004</b>	<b>0.0310</b>		<b>110.8487</b>	<b>110.8487</b>	<b>2.7500e-003</b>		<b>110.9174</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0715</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.6 Paving - 2022**

**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	0.0561	0.0277	0.4133	1.1100e-003	0.1141	7.5000e-004	0.1149	0.0303	6.9000e-004	0.0310		110.8487	110.8487	2.7500e-003		110.9174
<b>Total</b>	<b>0.0561</b>	<b>0.0277</b>	<b>0.4133</b>	<b>1.1100e-003</b>	<b>0.1141</b>	<b>7.5000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>6.9000e-004</b>	<b>0.0310</b>		<b>110.8487</b>	<b>110.8487</b>	<b>2.7500e-003</b>		<b>110.9174</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>40.7757</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2022**

**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	3.1387	1.5482	23.1144	0.0623	6.3823	0.0420	6.4242	1.6930	0.0387	1.7316		6,200.1365	6,200.1365	0.1538		6,203.9819
<b>Total</b>	<b>3.1387</b>	<b>1.5482</b>	<b>23.1144</b>	<b>0.0623</b>	<b>6.3823</b>	<b>0.0420</b>	<b>6.4242</b>	<b>1.6930</b>	<b>0.0387</b>	<b>1.7316</b>		<b>6,200.1365</b>	<b>6,200.1365</b>	<b>0.1538</b>		<b>6,203.9819</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>40.7757</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2022**

**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	3.1387	1.5482	23.1144	0.0623	6.3823	0.0420	6.4242	1.6930	0.0387	1.7316		6,200.1365	6,200.1365	0.1538		6,203.9819
<b>Total</b>	<b>3.1387</b>	<b>1.5482</b>	<b>23.1144</b>	<b>0.0623</b>	<b>6.3823</b>	<b>0.0420</b>	<b>6.4242</b>	<b>1.6930</b>	<b>0.0387</b>	<b>1.7316</b>		<b>6,200.1365</b>	<b>6,200.1365</b>	<b>0.1538</b>		<b>6,203.9819</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>40.7628</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.9337	1.3936	21.2757	0.0599	6.3823	0.0409	6.4232	1.6930	0.0377	1.7307		5,967.0369	5,967.0369	0.1379		5,970.4839
<b>Total</b>	<b>2.9337</b>	<b>1.3936</b>	<b>21.2757</b>	<b>0.0599</b>	<b>6.3823</b>	<b>0.0409</b>	<b>6.4232</b>	<b>1.6930</b>	<b>0.0377</b>	<b>1.7307</b>		<b>5,967.0369</b>	<b>5,967.0369</b>	<b>0.1379</b>		<b>5,970.4839</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>40.7628</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.9337	1.3936	21.2757	0.0599	6.3823	0.0409	6.4232	1.6930	0.0377	1.7307		5,967.0369	5,967.0369	0.1379		5,970.4839
<b>Total</b>	<b>2.9337</b>	<b>1.3936</b>	<b>21.2757</b>	<b>0.0599</b>	<b>6.3823</b>	<b>0.0409</b>	<b>6.4232</b>	<b>1.6930</b>	<b>0.0377</b>	<b>1.7307</b>		<b>5,967.0369</b>	<b>5,967.0369</b>	<b>0.1379</b>		<b>5,970.4839</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>40.7519</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.7549	1.2600	19.7366	0.0576	6.3823	0.0400	6.4223	1.6930	0.0369	1.7298		5,734.7749	5,734.7749	0.1244		5,737.8845
<b>Total</b>	<b>2.7549</b>	<b>1.2600</b>	<b>19.7366</b>	<b>0.0576</b>	<b>6.3823</b>	<b>0.0400</b>	<b>6.4223</b>	<b>1.6930</b>	<b>0.0369</b>	<b>1.7298</b>		<b>5,734.7749</b>	<b>5,734.7749</b>	<b>0.1244</b>		<b>5,737.8845</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>40.7519</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.7549	1.2600	19.7366	0.0576	6.3823	0.0400	6.4223	1.6930	0.0369	1.7298		5,734.7749	5,734.7749	0.1244		5,737.8845
<b>Total</b>	<b>2.7549</b>	<b>1.2600</b>	<b>19.7366</b>	<b>0.0576</b>	<b>6.3823</b>	<b>0.0400</b>	<b>6.4223</b>	<b>1.6930</b>	<b>0.0369</b>	<b>1.7298</b>		<b>5,734.7749</b>	<b>5,734.7749</b>	<b>0.1244</b>		<b>5,737.8845</b>

**3.7 Architectural Coating - 2025**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2025**

**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	2.5989	1.1444	18.3064	0.0552	6.3823	0.0393	6.4216	1.6930	0.0362	1.7291		5,504.873 2	5,504.873 2	0.1128		5,507.692 3
<b>Total</b>	<b>2.5989</b>	<b>1.1444</b>	<b>18.3064</b>	<b>0.0552</b>	<b>6.3823</b>	<b>0.0393</b>	<b>6.4216</b>	<b>1.6930</b>	<b>0.0362</b>	<b>1.7291</b>		<b>5,504.873 2</b>	<b>5,504.873 2</b>	<b>0.1128</b>		<b>5,507.692 3</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2025**

**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	2.5989	1.1444	18.3064	0.0552	6.3823	0.0393	6.4216	1.6930	0.0362	1.7291		5,504.873 2	5,504.873 2	0.1128		5,507.692 3
<b>Total</b>	<b>2.5989</b>	<b>1.1444</b>	<b>18.3064</b>	<b>0.0552</b>	<b>6.3823</b>	<b>0.0393</b>	<b>6.4216</b>	<b>1.6930</b>	<b>0.0362</b>	<b>1.7291</b>		<b>5,504.873 2</b>	<b>5,504.873 2</b>	<b>0.1128</b>		<b>5,507.692 3</b>

**3.7 Architectural Coating - 2026**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2026**

**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	2.4601	1.0457	17.0638	0.0532	6.3823	0.0381	6.4204	1.6930	0.0351	1.7281		5,300.2517	5,300.2517	0.1027		5,302.8192
<b>Total</b>	<b>2.4601</b>	<b>1.0457</b>	<b>17.0638</b>	<b>0.0532</b>	<b>6.3823</b>	<b>0.0381</b>	<b>6.4204</b>	<b>1.6930</b>	<b>0.0351</b>	<b>1.7281</b>		<b>5,300.2517</b>	<b>5,300.2517</b>	<b>0.1027</b>		<b>5,302.8192</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2026**

**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	2.4601	1.0457	17.0638	0.0532	6.3823	0.0381	6.4204	1.6930	0.0351	1.7281		5,300.2517	5,300.2517	0.1027		5,302.8192
<b>Total</b>	<b>2.4601</b>	<b>1.0457</b>	<b>17.0638</b>	<b>0.0532</b>	<b>6.3823</b>	<b>0.0381</b>	<b>6.4204</b>	<b>1.6930</b>	<b>0.0351</b>	<b>1.7281</b>		<b>5,300.2517</b>	<b>5,300.2517</b>	<b>0.1027</b>		<b>5,302.8192</b>

**3.7 Architectural Coating - 2027**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2027**

**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	2.3247	0.9571	15.9428	0.0513	6.3823	0.0363	6.4185	1.6930	0.0334	1.7263		5,117.3222	5,117.3222	0.0936		5,119.6627
<b>Total</b>	<b>2.3247</b>	<b>0.9571</b>	<b>15.9428</b>	<b>0.0513</b>	<b>6.3823</b>	<b>0.0363</b>	<b>6.4185</b>	<b>1.6930</b>	<b>0.0334</b>	<b>1.7263</b>		<b>5,117.3222</b>	<b>5,117.3222</b>	<b>0.0936</b>		<b>5,119.6627</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2027**

**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	2.3247	0.9571	15.9428	0.0513	6.3823	0.0363	6.4185	1.6930	0.0334	1.7263		5,117.3222	5,117.3222	0.0936		5,119.6627
<b>Total</b>	<b>2.3247</b>	<b>0.9571</b>	<b>15.9428</b>	<b>0.0513</b>	<b>6.3823</b>	<b>0.0363</b>	<b>6.4185</b>	<b>1.6930</b>	<b>0.0334</b>	<b>1.7263</b>		<b>5,117.3222</b>	<b>5,117.3222</b>	<b>0.0936</b>		<b>5,119.6627</b>

**3.7 Architectural Coating - 2028**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2028**

**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	2.1866	0.8785	14.9543	0.0497	6.3823	0.0338	6.4161	1.6930	0.0311	1.7241		4,955.084 0	4,955.084 0	0.0858		4,957.229 1
<b>Total</b>	<b>2.1866</b>	<b>0.8785</b>	<b>14.9543</b>	<b>0.0497</b>	<b>6.3823</b>	<b>0.0338</b>	<b>6.4161</b>	<b>1.6930</b>	<b>0.0311</b>	<b>1.7241</b>		<b>4,955.084 0</b>	<b>4,955.084 0</b>	<b>0.0858</b>		<b>4,957.229 1</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2028**

**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	2.1866	0.8785	14.9543	0.0497	6.3823	0.0338	6.4161	1.6930	0.0311	1.7241		4,955.0840	4,955.0840	0.0858		4,957.2291
<b>Total</b>	<b>2.1866</b>	<b>0.8785</b>	<b>14.9543</b>	<b>0.0497</b>	<b>6.3823</b>	<b>0.0338</b>	<b>6.4161</b>	<b>1.6930</b>	<b>0.0311</b>	<b>1.7241</b>		<b>4,955.0840</b>	<b>4,955.0840</b>	<b>0.0858</b>		<b>4,957.2291</b>

**3.7 Architectural Coating - 2029**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2029**

**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	2.0367	0.8052	14.0077	0.0483	6.3823	0.0315	6.4138	1.6930	0.0290	1.7220		4,811.4772	4,811.4772	0.0784		4,813.4362
<b>Total</b>	<b>2.0367</b>	<b>0.8052</b>	<b>14.0077</b>	<b>0.0483</b>	<b>6.3823</b>	<b>0.0315</b>	<b>6.4138</b>	<b>1.6930</b>	<b>0.0290</b>	<b>1.7220</b>		<b>4,811.4772</b>	<b>4,811.4772</b>	<b>0.0784</b>		<b>4,813.4362</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2029**

**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	2.0367	0.8052	14.0077	0.0483	6.3823	0.0315	6.4138	1.6930	0.0290	1.7220		4,811.4772	4,811.4772	0.0784		4,813.4362
<b>Total</b>	<b>2.0367</b>	<b>0.8052</b>	<b>14.0077</b>	<b>0.0483</b>	<b>6.3823</b>	<b>0.0315</b>	<b>6.4138</b>	<b>1.6930</b>	<b>0.0290</b>	<b>1.7220</b>		<b>4,811.4772</b>	<b>4,811.4772</b>	<b>0.0784</b>		<b>4,813.4362</b>

**3.7 Architectural Coating - 2030**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2030**

**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	1.8913	0.7392	13.1572	0.0470	6.3823	0.0294	6.4116	1.6930	0.0270	1.7200		4,685.0776	4,685.0776	0.0717		4,686.8712
<b>Total</b>	<b>1.8913</b>	<b>0.7392</b>	<b>13.1572</b>	<b>0.0470</b>	<b>6.3823</b>	<b>0.0294</b>	<b>6.4116</b>	<b>1.6930</b>	<b>0.0270</b>	<b>1.7200</b>		<b>4,685.0776</b>	<b>4,685.0776</b>	<b>0.0717</b>		<b>4,686.8712</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2030**

**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	1.8913	0.7392	13.1572	0.0470	6.3823	0.0294	6.4116	1.6930	0.0270	1.7200		4,685.0776	4,685.0776	0.0717		4,686.8712
<b>Total</b>	<b>1.8913</b>	<b>0.7392</b>	<b>13.1572</b>	<b>0.0470</b>	<b>6.3823</b>	<b>0.0294</b>	<b>6.4116</b>	<b>1.6930</b>	<b>0.0270</b>	<b>1.7200</b>		<b>4,685.0776</b>	<b>4,685.0776</b>	<b>0.0717</b>		<b>4,686.8712</b>

**3.7 Architectural Coating - 2031**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2031**

**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	1.7381	0.6769	12.3488	0.0459	6.3823	0.0273	6.4096	1.6930	0.0251	1.7181		4,574.310 3	4,574.310 3	0.0656		4,575.949 3
<b>Total</b>	<b>1.7381</b>	<b>0.6769</b>	<b>12.3488</b>	<b>0.0459</b>	<b>6.3823</b>	<b>0.0273</b>	<b>6.4096</b>	<b>1.6930</b>	<b>0.0251</b>	<b>1.7181</b>		<b>4,574.310 3</b>	<b>4,574.310 3</b>	<b>0.0656</b>		<b>4,575.949 3</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2031**

**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	1.7381	0.6769	12.3488	0.0459	6.3823	0.0273	6.4096	1.6930	0.0251	1.7181		4,574.310 3	4,574.310 3	0.0656		4,575.949 3
<b>Total</b>	<b>1.7381</b>	<b>0.6769</b>	<b>12.3488</b>	<b>0.0459</b>	<b>6.3823</b>	<b>0.0273</b>	<b>6.4096</b>	<b>1.6930</b>	<b>0.0251</b>	<b>1.7181</b>		<b>4,574.310 3</b>	<b>4,574.310 3</b>	<b>0.0656</b>		<b>4,575.949 3</b>

**3.7 Architectural Coating - 2032**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2032**

**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	1.6005	0.6231	11.6364	0.0449	6.3823	0.0254	6.4077	1.6930	0.0234	1.7163		4,477.8960	4,477.8960	0.0602		4,479.4004
<b>Total</b>	<b>1.6005</b>	<b>0.6231</b>	<b>11.6364</b>	<b>0.0449</b>	<b>6.3823</b>	<b>0.0254</b>	<b>6.4077</b>	<b>1.6930</b>	<b>0.0234</b>	<b>1.7163</b>		<b>4,477.8960</b>	<b>4,477.8960</b>	<b>0.0602</b>		<b>4,479.4004</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2032**

**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	1.6005	0.6231	11.6364	0.0449	6.3823	0.0254	6.4077	1.6930	0.0234	1.7163		4,477.8960	4,477.8960	0.0602		4,479.4004
<b>Total</b>	<b>1.6005</b>	<b>0.6231</b>	<b>11.6364</b>	<b>0.0449</b>	<b>6.3823</b>	<b>0.0254</b>	<b>6.4077</b>	<b>1.6930</b>	<b>0.0234</b>	<b>1.7163</b>		<b>4,477.8960</b>	<b>4,477.8960</b>	<b>0.0602</b>		<b>4,479.4004</b>

**3.7 Architectural Coating - 2033**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2033**

**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	1.4876	0.5790	11.0355	0.0440	6.3823	0.0237	6.4060	1.6930	0.0218	1.7148		4,394.770 1	4,394.770 1	0.0557		4,396.162 4
<b>Total</b>	<b>1.4876</b>	<b>0.5790</b>	<b>11.0355</b>	<b>0.0440</b>	<b>6.3823</b>	<b>0.0237</b>	<b>6.4060</b>	<b>1.6930</b>	<b>0.0218</b>	<b>1.7148</b>		<b>4,394.770 1</b>	<b>4,394.770 1</b>	<b>0.0557</b>		<b>4,396.162 4</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2033**

**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	1.4876	0.5790	11.0355	0.0440	6.3823	0.0237	6.4060	1.6930	0.0218	1.7148		4,394.770 1	4,394.770 1	0.0557		4,396.162 4
<b>Total</b>	<b>1.4876</b>	<b>0.5790</b>	<b>11.0355</b>	<b>0.0440</b>	<b>6.3823</b>	<b>0.0237</b>	<b>6.4060</b>	<b>1.6930</b>	<b>0.0218</b>	<b>1.7148</b>		<b>4,394.770 1</b>	<b>4,394.770 1</b>	<b>0.0557</b>		<b>4,396.162 4</b>

**3.7 Architectural Coating - 2034**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2034**

**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	1.3856	0.5413	10.4670	0.0433	6.3823	0.0221	6.4044	1.6930	0.0203	1.7133		4,322.9665	4,322.9665	0.0515		4,324.2542
<b>Total</b>	<b>1.3856</b>	<b>0.5413</b>	<b>10.4670</b>	<b>0.0433</b>	<b>6.3823</b>	<b>0.0221</b>	<b>6.4044</b>	<b>1.6930</b>	<b>0.0203</b>	<b>1.7133</b>		<b>4,322.9665</b>	<b>4,322.9665</b>	<b>0.0515</b>		<b>4,324.2542</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**3.7 Architectural Coating - 2034**

**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	1.3856	0.5413	10.4670	0.0433	6.3823	0.0221	6.4044	1.6930	0.0203	1.7133		4,322.9665	4,322.9665	0.0515		4,324.2542
<b>Total</b>	<b>1.3856</b>	<b>0.5413</b>	<b>10.4670</b>	<b>0.0433</b>	<b>6.3823</b>	<b>0.0221</b>	<b>6.4044</b>	<b>1.6930</b>	<b>0.0203</b>	<b>1.7133</b>		<b>4,322.9665</b>	<b>4,322.9665</b>	<b>0.0515</b>		<b>4,324.2542</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	152.6979	593.9409	1,181.1533	5.0237	540.9455	2.5078	543.4533	144.4241	2.3286	146.7528		512,405.7570	512,405.7570	19.3836		512,890.3468
Unmitigated	152.6979	593.9409	1,181.1533	5.0237	540.9455	2.5078	543.4533	144.4241	2.3286	146.7528		512,405.7570	512,405.7570	19.3836		512,890.3468

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	13,632.50	13,099.50	12013.00	34,193,402	34,193,402
Apartments Mid Rise	665.00	639.00	586.00	1,667,971	1,667,971
City Park	76.73	923.65	679.64	523,693	523,693
City Park	72.20	869.05	639.47	492,736	492,736
Convenience Market (24 Hour)	2,435.37	2,848.23	2502.89	1,403,707	1,403,707
Discount Club	8,151.00	10,481.25	6565.65	10,162,268	10,162,268
Elementary School	3,471.75	0.00	0.00	5,214,694	5,214,694
Fast Food Restaurant with Drive Thru	19,348.68	28,159.17	21166.08	14,414,777	14,414,777
Gasoline/Service Station	8,090.88	8,090.88	8090.88	3,464,556	3,464,556
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,732,278	1,732,278
General Office Building	8,455.60	1,885.84	804.93	13,266,451	13,266,451
Hardware/Paint Store	1,666.93	2,681.90	2231.13	2,164,945	2,164,945
High School	3,222.50	1,092.50	447.50	6,568,328	6,568,328
Home Improvement Superstore	4,995.25	9,217.00	9067.50	5,480,713	5,480,713
Library	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		

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Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,149.58	3,149.58	3149.58	2,732,839	2,732,839
Single Family Housing	33,700.80	35,081.40	30514.80	85,818,090	85,818,090
Strip Mall	5,043.62	4,784.15	2324.93	5,678,881	5,678,881
Strip Mall	7,685.09	7,289.74	3542.56	8,653,058	8,653,058
Strip Mall	11,097.73	10,526.82	5115.67	12,495,534	12,495,534
Supermarket	6,645.60	11,543.35	10818.60	6,833,995	6,833,995
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>145,652.23</b>	<b>156,408.44</b>	<b>124,306.25</b>	<b>222,962,916</b>	<b>222,962,916</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	10.00	5.00	6.50	0.90	80.10	19.00	24	15	61
Discount Club	10.00	5.00	6.50	16.70	64.30	19.00	45	40	15
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12

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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
Fast Food Restaurant with Drive	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
Gasoline/Service Station	10.00	5.00	6.50	2.00	79.00	19.00	14	27	59
Gasoline/Service Station	10.00	5.00	6.50	2.00	79.00	19.00	14	27	59
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Hardware/Paint Store	10.00	5.00	6.50	13.60	67.40	19.00	45	29	26
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
Home Improvement Superstore	10.00	5.00	6.50	23.40	57.60	19.00	32	20	48
Library	10.00	5.00	6.50	52.00	43.00	5.00	44	44	12
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

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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
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

5.0 Energy Detail

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.4924	40,647.4924	0.7791	0.7452	40,889.0401
NaturalGas Unmitigated	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.9639	46,364.9639	0.8887	0.8500	46,640.4877

**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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	54749.6	0.5904	5.0456	2.1470	0.0322		0.4079	0.4079		0.4079	0.4079		6,441.1297	6,441.1297	0.1235	0.1181	6,479.4062
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market (24 Hour)	49.0027	5.3000e-004	4.8000e-003	4.0400e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.7650	5.7650	1.1000e-004	1.1000e-004	5.7993
Discount Club	2895.62	0.0312	0.2839	0.2385	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.6608	340.6608	6.5300e-003	6.2500e-003	342.6851
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647
Fast Food Restaurant with Drive Thru	18987.1	0.2048	1.8615	1.5637	0.0112		0.1415	0.1415		0.1415	0.1415		2,233.7792	2,233.7792	0.0428	0.0410	2,247.0534
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	27513.6	0.2967	2.6974	2.2658	0.0162		0.2050	0.2050		0.2050	0.2050		3,236.8928	3,236.8928	0.0620	0.0593	3,256.1281
Hardware/Paint Store	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2413.01	0.0260	0.2366	0.1987	1.4200e-003		0.0180	0.0180		0.0180	0.0180		283.8840	283.8840	5.4400e-003	5.2000e-003	285.5710
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
Single Family Housing	250561	2.7021	23.0909	9.8259	0.1474		1.8669	1.8669		1.8669	1.8669		29,477.7768	29,477.7768	0.5650	0.5404	29,652.9485
Strip Mall	1689.85	0.0182	0.1657	0.1392	9.9000e-004		0.0126	0.0126		0.0126	0.0126		198.8061	198.8061	3.8100e-003	3.6400e-003	199.9875
Strip Mall	2574.87	0.0278	0.2524	0.2121	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.9260	302.9260	5.8100e-003	5.5500e-003	304.7262
Strip Mall	3718.27	0.0401	0.3645	0.3062	2.1900e-003		0.0277	0.0277		0.0277	0.0277		437.4434	437.4434	8.3800e-003	8.0200e-003	440.0429

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	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					
Supermarket	4523.29	0.0488	0.4435	0.3725	2.6600e-003		0.0337	0.0337		0.0337	0.0337		532.1515	532.1515	0.0102	9.7600e-003	535.3138
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.2501</b>	<b>36.8258</b>	<b>19.1700</b>	<b>0.2318</b>		<b>2.9365</b>	<b>2.9365</b>		<b>2.9365</b>	<b>2.9365</b>		<b>46,364.9639</b>	<b>46,364.9639</b>	<b>0.8887</b>	<b>0.8500</b>	<b>46,640.4877</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.38827	0.0258	0.2201	0.0937	1.4000e-003		0.0178	0.0178		0.0178	0.0178		280.9727	280.9727	5.3900e-003	5.1500e-003	282.6424
Apartments Mid Rise	48.9595	0.5280	4.5120	1.9200	0.0288		0.3648	0.3648		0.3648	0.3648		5,759.9413	5,759.9413	0.1104	0.1056	5,794.1697
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0430759	4.6000e-004	4.2200e-003	3.5500e-003	3.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		5.0678	5.0678	1.0000e-004	9.0000e-005	5.0979
Discount Club	2.5454	0.0275	0.2496	0.2096	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.4584	299.4584	5.7400e-003	5.4900e-003	301.2379
Elementary School	8.09285	0.0873	0.7934	0.6665	4.7600e-003		0.0603	0.0603		0.0603	0.0603		952.0999	952.0999	0.0183	0.0175	957.7578
Fast Food Restaurant with Drive Thru	18.0564	0.1947	1.7702	1.4870	0.0106		0.1345	0.1345		0.1345	0.1345		2,124.2856	2,124.2856	0.0407	0.0390	2,136.9091
Gasoline/Service Station	0.266261	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.3248	31.3248	6.0000e-004	5.7000e-004	31.5109
Gasoline/Service Station	0.576898	6.2200e-003	0.0566	0.0475	3.4000e-004		4.3000e-003	4.3000e-003		4.3000e-003	4.3000e-003		67.8704	67.8704	1.3000e-003	1.2400e-003	68.2737



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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	23.7051	0.2556	2.3240	1.9522	0.0139		0.1766	0.1766		0.1766	0.1766		2,788.8377	2,788.8377	0.0535	0.0511	2,805.4103
Hardware/Paint Store	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
High School	8.99205	0.0970	0.8816	0.7405	5.2900e-003		0.0670	0.0670		0.0670	0.0670		1,057.8888	1,057.8888	0.0203	0.0194	1,064.1753
Home Improvement Superstore	2.12116	0.0229	0.2080	0.1747	1.2500e-003		0.0158	0.0158		0.0158	0.0158		249.5487	249.5487	4.7800e-003	4.5800e-003	251.0316
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
Single Family Housing	217.784	2.3487	20.0703	8.5406	0.1281		1.6227	1.6227		1.6227	1.6227		25,621.6440	25,621.6440	0.4911	0.4697	25,773.9006
Strip Mall	1.48547	0.0160	0.1456	0.1223	8.7000e-004		0.0111	0.0111		0.0111	0.0111		174.7609	174.7609	3.3500e-003	3.2000e-003	175.7994
Strip Mall	2.26344	0.0244	0.2219	0.1864	1.3300e-003		0.0169	0.0169		0.0169	0.0169		266.2876	266.2876	5.1000e-003	4.8800e-003	267.8700
Strip Mall	3.26855	0.0353	0.3205	0.2692	1.9200e-003		0.0244	0.0244		0.0244	0.0244		384.5353	384.5353	7.3700e-003	7.0500e-003	386.8204
Supermarket	4.10677	0.0443	0.4026	0.3382	2.4200e-003		0.0306	0.0306		0.0306	0.0306		483.1491	483.1491	9.2600e-003	8.8600e-003	486.0203
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.7260</b>	<b>32.2898</b>	<b>16.8436</b>	<b>0.2032</b>		<b>2.5743</b>	<b>2.5743</b>		<b>2.5743</b>	<b>2.5743</b>		<b>40,647.4924</b>	<b>40,647.4924</b>	<b>0.7791</b>	<b>0.7452</b>	<b>40,889.0401</b>

6.0 Area Detail

6.1 Mitigation Measures Area

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Unmitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24

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	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.17 65	55,341.17 65	1.0607	1.0146	55,670.04 14
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.78 48</b>	<b>56,187.78 48</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.85 24</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.1765	55,341.1765	1.0607	1.0146	55,670.0414
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.7848</b>	<b>56,187.7848</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.8524</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX J-6**  
**ALTERNATIVE 2 PEAK DAILY WINTER CONSTRUCTION EMISSIONS**

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Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24**  
**Sacramento County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	766.60	1000sqft	21.36	766,600.00	0
Pharmacy/Drugstore with Drive Thru	32.50	1000sqft	1.20	32,500.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,213.00	0
Parking Lot	468.30	1000sqft	10.75	468,300.00	0
Parking Lot	390.30	1000sqft	8.96	390,300.00	0
Parking Lot	156.80	1000sqft	3.60	156,800.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	93.70	1000sqft	2.15	93,700.00	0
Parking Lot	273.10	1000sqft	6.27	273,100.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.40	1000sqft	0.17	7,400.00	0
Parking Lot	416.00	1000sqft	9.55	416,000.00	0
Parking Lot	343.20	1000sqft	7.88	343,200.00	0
Parking Lot	613.30	1000sqft	14.08	613,300.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
City Park	40.60	Acre	40.60	1,768,536.00	0
City Park	38.20	Acre	38.20	1,663,992.00	0
Fast Food Restaurant with Drive Thru	39.00	1000sqft	1.43	39,000.00	0
Apartments Mid Rise	2,050.00	Dwelling Unit	82.00	2,050,000.00	5474
Apartments Mid Rise	100.00	Dwelling Unit	11.82	178,600.00	267
Single Family Housing	3,540.00	Dwelling Unit	507.10	6,372,000.00	9452
Convenience Market (24 Hour)	3.30	1000sqft	0.12	3,300.00	0
Discount Club	195.00	1000sqft	7.16	195,000.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.11	3,000.00	0
Hardware/Paint Store	32.50	1000sqft	1.20	32,500.00	0
Home Improvement Superstore	162.50	1000sqft	5.97	162,500.00	0
Strip Mall	113.80	1000sqft	4.18	113,800.00	0
Strip Mall	173.40	1000sqft	6.37	173,400.00	0
Strip Mall	250.40	1000sqft	0.00	250,400.00	0
Supermarket	65.00	1000sqft	2.40	65,000.00	0

1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	236.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

1.3 User Entered Comments & Non-Default Data

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O are default for SMUD.

Land Use - Land use and acreages per Applicant. Acreage for Multi-use shopping entered as 0 per User Manual.

Construction Phase - Days adjusted to match 15-year construction plan.

Off-road Equipment - Default equipment.

Trips and VMT - Adjusted trips based on project design. Default Site Prep, Grading, Paving.

Grading - Graded acreage from land use.

Architectural Coating - Default coating.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	125.00
tblConstructionPhase	NumDays	1,395.00	322.00
tblConstructionPhase	NumDays	13,950.00	3,224.00
tblConstructionPhase	NumDays	990.00	229.00
tblConstructionPhase	NumDays	990.00	3,224.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	NumberGas	0.00	2,150.00
tblFireplaces	NumberGas	0.00	3,540.00
tblFireplaces	NumberNoFireplace	2,150.00	0.00
tblFireplaces	NumberNoFireplace	3,540.00	0.00
tblGrading	AcresOfGrading	805.00	905.00



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

tblLandUse	LandUseSquareFeet	0.00	70,213.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	17.60	21.36
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.90	1.43
tblLandUse	LotAcreage	2.63	11.82
tblLandUse	LotAcreage	53.95	82.00
tblLandUse	LotAcreage	1,149.35	507.10
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	4.48	7.16
tblLandUse	LotAcreage	0.08	0.11
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	3.73	5.97
tblLandUse	LotAcreage	2.61	4.18
tblLandUse	LotAcreage	3.98	6.37
tblLandUse	LotAcreage	5.75	0.00
tblLandUse	LotAcreage	1.49	2.40
tblProjectCharacteristics	CO2IntensityFactor	590.31	236.9
tblTripsAndVMT	VendorTripNumber	2,167.00	1,018.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	6,636.00	4,193.00

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

tblTripsAndVMT	:	WorkerTripNumber	:	1,327.00	:	839.00
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## 2.0 Emissions Summary

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### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5295	50.2541	32.5174	0.0634	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	6,145.2430	6,145.2430	1.9464	0.0000	6,193.9036
2021	4.2650	46.4505	31.3888	0.0634	9.1548	1.9864	11.1412	3.6724	1.8275	5.4999	0.0000	6,141.6763	6,141.6763	1.9464	0.0000	6,190.3360
2022	62.9432	127.1221	163.8451	0.6003	44.4032	1.4041	45.8073	11.9161	1.3251	13.2412	0.0000	61,199.8878	61,199.8878	2.9707	0.0000	61,274.1540
2023	61.0616	109.2860	150.5447	0.5833	44.4025	1.1421	45.5446	11.9159	1.0759	12.9917	0.0000	59,500.6864	59,500.6864	2.7193	0.0000	59,568.6676
2024	59.8825	105.6763	140.7179	0.5694	44.4020	1.0336	45.4356	11.9156	0.9730	12.8886	0.0000	58,134.6877	58,134.6877	2.6260	0.0000	58,200.3368
2025	58.8396	102.2572	131.9330	0.5558	44.4014	0.9275	45.3289	11.9154	0.8726	12.7880	0.0000	56,786.4115	56,786.4115	2.5441	0.0000	56,850.0142
2026	58.0239	100.0861	124.4310	0.5436	44.4009	0.9141	45.3151	11.9153	0.8600	12.7753	0.0000	55,576.1941	55,576.1941	2.4760	0.0000	55,638.0946
2027	57.2301	98.1054	117.6937	0.5326	44.4005	0.8975	45.2980	11.9151	0.8444	12.7595	0.0000	54,486.3559	54,486.3559	2.4135	0.0000	54,546.6947
2028	56.4089	96.3988	111.7953	0.5229	44.4001	0.8782	45.2783	11.9150	0.8265	12.7414	0.0000	53,523.4254	53,523.4254	2.3575	0.0000	53,582.3639
2029	55.5212	94.7856	106.2099	0.5143	44.3998	0.8594	45.2592	11.9148	0.8090	12.7238	0.0000	52,667.1575	52,667.1575	2.3035	0.0000	52,724.7453
2030	54.5675	88.4689	101.2928	0.5106	44.3995	0.4309	44.8304	11.9147	0.4130	12.3277	0.0000	52,252.3339	52,252.3339	1.7647	0.0000	52,296.4502
2031	53.6686	87.0971	96.6025	0.5040	44.3993	0.4142	44.8135	11.9146	0.3975	12.3121	0.0000	51,591.2035	51,591.2035	1.7187	0.0000	51,634.1714
2032	52.8688	85.8552	92.5077	0.4982	44.3991	0.3993	44.7984	11.9146	0.3836	12.2982	0.0000	51,019.3521	51,019.3521	1.6786	0.0000	51,061.3167
2033	52.2170	84.7791	89.0565	0.4932	44.3989	0.3861	44.7850	11.9145	0.3714	12.2859	0.0000	50,525.4414	50,525.4414	1.6446	0.0000	50,566.5563
2034	51.6449	83.8060	85.8001	0.4889	44.3988	0.3737	44.7724	11.9145	0.3599	12.2743	0.0000	50,099.8311	50,099.8311	1.6128	0.0000	50,140.1512
<b>Maximum</b>	<b>62.9432</b>	<b>127.1221</b>	<b>163.8451</b>	<b>0.6003</b>	<b>44.4032</b>	<b>2.1984</b>	<b>45.8073</b>	<b>11.9161</b>	<b>2.0225</b>	<b>13.2412</b>	<b>0.0000</b>	<b>61,199.8878</b>	<b>61,199.8878</b>	<b>2.9707</b>	<b>0.0000</b>	<b>61,274.1540</b>

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

**Mitigated Construction**

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.5295	50.2541	32.5174	0.0634	18.2032	2.1984	20.4016	9.9670	2.0225	11.9895	0.0000	6,145.2430	6,145.2430	1.9464	0.0000	6,193.9036
2021	4.2650	46.4505	31.3888	0.0634	9.1548	1.9864	11.1412	3.6724	1.8275	5.4999	0.0000	6,141.6763	6,141.6763	1.9464	0.0000	6,190.3360
2022	62.9432	127.1221	163.8451	0.6003	44.4032	1.4041	45.8073	11.9161	1.3251	13.2412	0.0000	61,199.8878	61,199.8878	2.9707	0.0000	61,274.1540
2023	61.0616	109.2860	150.5447	0.5833	44.4025	1.1421	45.5446	11.9159	1.0759	12.9917	0.0000	59,500.6864	59,500.6864	2.7193	0.0000	59,568.6676
2024	59.8825	105.6763	140.7179	0.5694	44.4020	1.0336	45.4356	11.9156	0.9730	12.8886	0.0000	58,134.6877	58,134.6877	2.6260	0.0000	58,200.3368
2025	58.8396	102.2572	131.9330	0.5558	44.4014	0.9275	45.3289	11.9154	0.8726	12.7880	0.0000	56,786.4115	56,786.4115	2.5441	0.0000	56,850.0142
2026	58.0239	100.0861	124.4310	0.5436	44.4009	0.9141	45.3151	11.9153	0.8600	12.7753	0.0000	55,576.1941	55,576.1941	2.4760	0.0000	55,638.0946
2027	57.2301	98.1054	117.6937	0.5326	44.4005	0.8975	45.2980	11.9151	0.8444	12.7595	0.0000	54,486.3559	54,486.3559	2.4135	0.0000	54,546.6947
2028	56.4089	96.3988	111.7953	0.5229	44.4001	0.8782	45.2783	11.9150	0.8265	12.7414	0.0000	53,523.4254	53,523.4254	2.3575	0.0000	53,582.3639
2029	55.5212	94.7856	106.2099	0.5143	44.3998	0.8594	45.2592	11.9148	0.8090	12.7238	0.0000	52,667.1575	52,667.1575	2.3035	0.0000	52,724.7453
2030	54.5675	88.4689	101.2928	0.5106	44.3995	0.4309	44.8304	11.9147	0.4130	12.3277	0.0000	52,252.3339	52,252.3339	1.7647	0.0000	52,296.4502
2031	53.6686	87.0971	96.6025	0.5040	44.3993	0.4142	44.8135	11.9146	0.3975	12.3121	0.0000	51,591.2035	51,591.2035	1.7187	0.0000	51,634.1714
2032	52.8688	85.8552	92.5077	0.4982	44.3991	0.3993	44.7984	11.9146	0.3836	12.2982	0.0000	51,019.3521	51,019.3521	1.6786	0.0000	51,061.3167
2033	52.2170	84.7791	89.0565	0.4932	44.3989	0.3861	44.7850	11.9145	0.3714	12.2859	0.0000	50,525.4414	50,525.4414	1.6446	0.0000	50,566.5563
2034	51.6449	83.8060	85.8001	0.4889	44.3988	0.3737	44.7724	11.9145	0.3599	12.2743	0.0000	50,099.8311	50,099.8311	1.6128	0.0000	50,140.1512
<b>Maximum</b>	<b>62.9432</b>	<b>127.1221</b>	<b>163.8451</b>	<b>0.6003</b>	<b>44.4032</b>	<b>2.1984</b>	<b>45.8073</b>	<b>11.9161</b>	<b>2.0225</b>	<b>13.2412</b>	<b>0.0000</b>	<b>61,199.8878</b>	<b>61,199.8878</b>	<b>2.9707</b>	<b>0.0000</b>	<b>61,274.1540</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Energy	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.96 39	46,364.96 39	0.8887	0.8500	46,640.48 77
Mobile	104.8930	607.9251	1,125.856 2	4.5590	540.9455	2.5253	543.4708	144.4241	2.3454	146.7695		465,608.9 177	465,608.9 177	20.1050		466,111.54 16
<b>Total</b>	<b>400.7501</b>	<b>693.5040</b>	<b>1,631.879 7</b>	<b>5.0923</b>	<b>540.9455</b>	<b>11.5721</b>	<b>552.5177</b>	<b>144.4241</b>	<b>11.3922</b>	<b>155.8164</b>	<b>0.0000</b>	<b>568,161.6 665</b>	<b>568,161.6 665</b>	<b>22.8624</b>	<b>1.8646</b>	<b>569,288.8 817</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Energy	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.49 24	40,647.49 24	0.7791	0.7452	40,889.04 01
Mobile	104.8930	607.9251	1,125.856 2	4.5590	540.9455	2.5253	543.4708	144.4241	2.3454	146.7695		465,608.9 177	465,608.9 177	20.1050		466,111.54 16
<b>Total</b>	<b>400.2260</b>	<b>688.9680</b>	<b>1,629.553 3</b>	<b>5.0638</b>	<b>540.9455</b>	<b>11.2100</b>	<b>552.1556</b>	<b>144.4241</b>	<b>11.0301</b>	<b>155.4543</b>	<b>0.0000</b>	<b>562,444.1 949</b>	<b>562,444.1 949</b>	<b>22.7528</b>	<b>1.7598</b>	<b>563,537.4 341</b>

## Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.13	0.65	0.14	0.56	0.00	3.13	0.07	0.00	3.18	0.23	0.00	1.01	1.01	0.48	5.62	1.01

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	6/23/2020	5	125	
3	Grading	Grading	6/24/2020	9/16/2021	5	322	
4	Building Construction	Building Construction	8/4/2022	12/12/2034	5	3224	
5	Paving	Paving	9/17/2021	8/3/2022	5	229	
6	Architectural Coating	Architectural Coating	8/22/2022	12/28/2034	5	3224	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 905

Acres of Paving: 84.67

Residential Indoor: 17,416,215; Residential Outdoor: 5,805,405; Non-Residential Indoor: 3,583,070; Non-Residential Outdoor: 1,194,357;  
Striped Parking Area: 221,292 (Architectural Coating – sqft)

#### OffRoad Equipment

## Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
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



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	4,193.00	1,018.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	839.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.3 Site Preparation - 2020**

**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	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.3 Site Preparation - 2020**

**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	0.0714	0.0509	0.5032	1.2600e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		125.4399	125.4399	3.6100e-003		125.5301
<b>Total</b>	<b>0.0714</b>	<b>0.0509</b>	<b>0.5032</b>	<b>1.2600e-003</b>	<b>0.1369</b>	<b>9.5000e-004</b>	<b>0.1379</b>	<b>0.0363</b>	<b>8.8000e-004</b>	<b>0.0372</b>		<b>125.4399</b>	<b>125.4399</b>	<b>3.6100e-003</b>		<b>125.5301</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.3 Site Preparation - 2020**

**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	0.0714	0.0509	0.5032	1.2600e-003	0.1369	9.5000e-004	0.1379	0.0363	8.8000e-004	0.0372		125.4399	125.4399	3.6100e-003		125.5301
<b>Total</b>	<b>0.0714</b>	<b>0.0509</b>	<b>0.5032</b>	<b>1.2600e-003</b>	<b>0.1369</b>	<b>9.5000e-004</b>	<b>0.1379</b>	<b>0.0363</b>	<b>8.8000e-004</b>	<b>0.0372</b>		<b>125.4399</b>	<b>125.4399</b>	<b>3.6100e-003</b>		<b>125.5301</b>

**3.4 Grading - 2020**

**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					9.0027	0.0000	9.0027	3.6321	0.0000	3.6321			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>9.0027</b>	<b>2.1739</b>	<b>11.1766</b>	<b>3.6321</b>	<b>2.0000</b>	<b>5.6321</b>		<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.4 Grading - 2020**

**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	0.0794	0.0565	0.5591	1.4000e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		139.3777	139.3777	4.0100e-003		139.4779
<b>Total</b>	<b>0.0794</b>	<b>0.0565</b>	<b>0.5591</b>	<b>1.4000e-003</b>	<b>0.1521</b>	<b>1.0600e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.7000e-004</b>	<b>0.0413</b>		<b>139.3777</b>	<b>139.3777</b>	<b>4.0100e-003</b>		<b>139.4779</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0027	0.0000	9.0027	3.6321	0.0000	3.6321			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
<b>Total</b>	<b>4.4501</b>	<b>50.1975</b>	<b>31.9583</b>	<b>0.0620</b>	<b>9.0027</b>	<b>2.1739</b>	<b>11.1766</b>	<b>3.6321</b>	<b>2.0000</b>	<b>5.6321</b>	<b>0.0000</b>	<b>6,005.8653</b>	<b>6,005.8653</b>	<b>1.9424</b>		<b>6,054.4257</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.4 Grading - 2020**

**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	0.0794	0.0565	0.5591	1.4000e-003	0.1521	1.0600e-003	0.1532	0.0404	9.7000e-004	0.0413		139.3777	139.3777	4.0100e-003		139.4779
<b>Total</b>	<b>0.0794</b>	<b>0.0565</b>	<b>0.5591</b>	<b>1.4000e-003</b>	<b>0.1521</b>	<b>1.0600e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.7000e-004</b>	<b>0.0413</b>		<b>139.3777</b>	<b>139.3777</b>	<b>4.0100e-003</b>		<b>139.4779</b>

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0027	0.0000	9.0027	3.6321	0.0000	3.6321			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>9.0027</b>	<b>1.9853</b>	<b>10.9880</b>	<b>3.6321</b>	<b>1.8265</b>	<b>5.4586</b>		<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.4 Grading - 2021**

**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	0.0738	0.0507	0.5103	1.3500e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		134.6329	134.6329	3.5900e-003		134.7226
<b>Total</b>	<b>0.0738</b>	<b>0.0507</b>	<b>0.5103</b>	<b>1.3500e-003</b>	<b>0.1521</b>	<b>1.0300e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.5000e-004</b>	<b>0.0413</b>		<b>134.6329</b>	<b>134.6329</b>	<b>3.5900e-003</b>		<b>134.7226</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0027	0.0000	9.0027	3.6321	0.0000	3.6321			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>9.0027</b>	<b>1.9853</b>	<b>10.9880</b>	<b>3.6321</b>	<b>1.8265</b>	<b>5.4586</b>	<b>0.0000</b>	<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.4 Grading - 2021**

**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	0.0738	0.0507	0.5103	1.3500e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		134.6329	134.6329	3.5900e-003		134.7226
<b>Total</b>	<b>0.0738</b>	<b>0.0507</b>	<b>0.5103</b>	<b>1.3500e-003</b>	<b>0.1521</b>	<b>1.0300e-003</b>	<b>0.1532</b>	<b>0.0404</b>	<b>9.5000e-004</b>	<b>0.0413</b>		<b>134.6329</b>	<b>134.6329</b>	<b>3.5900e-003</b>		<b>134.7226</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2022**

**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	3.0929	98.6349	27.9265	0.2425	6.1248	0.2617	6.3866	1.7624	0.2503	2.0127		25,703.32 82	25,703.32 82	1.5308		25,741.59 72
Worker	14.4725	9.5518	98.1102	0.2732	31.8961	0.2097	32.1058	8.4607	0.1932	8.6539		27,215.15 15	27,215.15 15	0.6746		27,232.01 71
<b>Total</b>	<b>17.5654</b>	<b>108.1867</b>	<b>126.0367</b>	<b>0.5157</b>	<b>38.0210</b>	<b>0.4714</b>	<b>38.4924</b>	<b>10.2231</b>	<b>0.4435</b>	<b>10.6667</b>		<b>52,918.47 97</b>	<b>52,918.47 97</b>	<b>2.2054</b>		<b>52,973.61 43</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.333 6</b>	<b>2,554.333 6</b>	<b>0.6120</b>		<b>2,569.632 2</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2022**

**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	3.0929	98.6349	27.9265	0.2425	6.1248	0.2617	6.3866	1.7624	0.2503	2.0127		25,703.3282	25,703.3282	1.5308		25,741.5972
Worker	14.4725	9.5518	98.1102	0.2732	31.8961	0.2097	32.1058	8.4607	0.1932	8.6539		27,215.1515	27,215.1515	0.6746		27,232.0171
<b>Total</b>	<b>17.5654</b>	<b>108.1867</b>	<b>126.0367</b>	<b>0.5157</b>	<b>38.0210</b>	<b>0.4714</b>	<b>38.4924</b>	<b>10.2231</b>	<b>0.4435</b>	<b>10.6667</b>		<b>52,918.4797</b>	<b>52,918.4797</b>	<b>2.2054</b>		<b>52,973.6143</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.4515	83.2865	24.6106	0.2379	6.1241	0.1260	6.2501	1.7622	0.1205	1.8826		25,229.2706	25,229.2706	1.3706		25,263.5352
Worker	13.5611	8.5923	89.8919	0.2629	31.8961	0.2046	32.1007	8.4607	0.1885	8.6492		26,193.5492	26,193.5492	0.6033		26,208.6309
<b>Total</b>	<b>16.0125</b>	<b>91.8788</b>	<b>114.5026</b>	<b>0.5007</b>	<b>38.0203</b>	<b>0.3306</b>	<b>38.3508</b>	<b>10.2229</b>	<b>0.3089</b>	<b>10.5318</b>		<b>51,422.8198</b>	<b>51,422.8198</b>	<b>1.9739</b>		<b>51,472.1661</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.4515	83.2865	24.6106	0.2379	6.1241	0.1260	6.2501	1.7622	0.1205	1.8826		25,229.2706	25,229.2706	1.3706		25,263.5352
Worker	13.5611	8.5923	89.8919	0.2629	31.8961	0.2046	32.1007	8.4607	0.1885	8.6492		26,193.5492	26,193.5492	0.6033		26,208.6309
<b>Total</b>	<b>16.0125</b>	<b>91.8788</b>	<b>114.5026</b>	<b>0.5007</b>	<b>38.0203</b>	<b>0.3306</b>	<b>38.3508</b>	<b>10.2229</b>	<b>0.3089</b>	<b>10.5318</b>		<b>51,422.8198</b>	<b>51,422.8198</b>	<b>1.9739</b>		<b>51,472.1661</b>

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.3344	81.6948	22.9997	0.2364	6.1236	0.1193	6.2428	1.7619	0.1140	1.8760		25,084.2636	25,084.2636	1.3539		25,118.1120
Worker	12.7695	7.7652	83.1111	0.2526	31.8961	0.2001	32.0962	8.4607	0.1843	8.6450		25,175.7295	25,175.7295	0.5432		25,189.3082
<b>Total</b>	<b>15.1039</b>	<b>89.4600</b>	<b>106.1108</b>	<b>0.4890</b>	<b>38.0197</b>	<b>0.3194</b>	<b>38.3391</b>	<b>10.2227</b>	<b>0.2983</b>	<b>10.5210</b>		<b>50,259.9932</b>	<b>50,259.9932</b>	<b>1.8971</b>		<b>50,307.4203</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.3344	81.6948	22.9997	0.2364	6.1236	0.1193	6.2428	1.7619	0.1140	1.8760		25,084.2636	25,084.2636	1.3539		25,118.1120
Worker	12.7695	7.7652	83.1111	0.2526	31.8961	0.2001	32.0962	8.4607	0.1843	8.6450		25,175.7295	25,175.7295	0.5432		25,189.3082
<b>Total</b>	<b>15.1039</b>	<b>89.4600</b>	<b>106.1108</b>	<b>0.4890</b>	<b>38.0197</b>	<b>0.3194</b>	<b>38.3391</b>	<b>10.2227</b>	<b>0.2983</b>	<b>10.5210</b>		<b>50,259.9932</b>	<b>50,259.9932</b>	<b>1.8971</b>		<b>50,307.4203</b>

**3.5 Building Construction - 2025**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2025**

**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	2.2374	80.1808	21.7666	0.2349	6.1230	0.1128	6.2358	1.7617	0.1079	1.8696		24,944.3662	24,944.3662	1.3379		24,977.8139
Worker	12.0764	7.0505	76.8877	0.2425	31.8961	0.1964	32.0925	8.4607	0.1808	8.6415		24,168.1810	24,168.1810	0.4915		24,180.4696
<b>Total</b>	<b>14.3138</b>	<b>87.2313</b>	<b>98.6543</b>	<b>0.4774</b>	<b>38.0191</b>	<b>0.3092</b>	<b>38.3283</b>	<b>10.2225</b>	<b>0.2886</b>	<b>10.5111</b>		<b>49,112.5473</b>	<b>49,112.5473</b>	<b>1.8295</b>		<b>49,158.2836</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2025**

**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	2.2374	80.1808	21.7666	0.2349	6.1230	0.1128	6.2358	1.7617	0.1079	1.8696		24,944.3662	24,944.3662	1.3379		24,977.8139
Worker	12.0764	7.0505	76.8877	0.2425	31.8961	0.1964	32.0925	8.4607	0.1808	8.6415		24,168.1810	24,168.1810	0.4915		24,180.4696
<b>Total</b>	<b>14.3138</b>	<b>87.2313</b>	<b>98.6543</b>	<b>0.4774</b>	<b>38.0191</b>	<b>0.3092</b>	<b>38.3283</b>	<b>10.2225</b>	<b>0.2886</b>	<b>10.5111</b>		<b>49,112.5473</b>	<b>49,112.5473</b>	<b>1.8295</b>		<b>49,158.2836</b>

**3.5 Building Construction - 2026**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2026**

**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	2.1518	78.7417	20.7605	0.2336	6.1225	0.1063	6.2289	1.7616	0.1017	1.8632		24,811.6193	24,811.6193	1.3234		24,844.7049
Worker	11.4680	6.4405	71.4749	0.2334	31.8961	0.1906	32.0867	8.4607	0.1755	8.6362		23,270.3604	23,270.3604	0.4469		23,281.5324
<b>Total</b>	<b>13.6198</b>	<b>85.1822</b>	<b>92.2354</b>	<b>0.4670</b>	<b>38.0187</b>	<b>0.2969</b>	<b>38.3156</b>	<b>10.2223</b>	<b>0.2771</b>	<b>10.4994</b>		<b>48,081.9797</b>	<b>48,081.9797</b>	<b>1.7703</b>		<b>48,126.2373</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2026**

**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	2.1518	78.7417	20.7605	0.2336	6.1225	0.1063	6.2289	1.7616	0.1017	1.8632		24,811.6193	24,811.6193	1.3234		24,844.7049
Worker	11.4680	6.4405	71.4749	0.2334	31.8961	0.1906	32.0867	8.4607	0.1755	8.6362		23,270.3604	23,270.3604	0.4469		23,281.5324
<b>Total</b>	<b>13.6198</b>	<b>85.1822</b>	<b>92.2354</b>	<b>0.4670</b>	<b>38.0187</b>	<b>0.2969</b>	<b>38.3156</b>	<b>10.2223</b>	<b>0.2771</b>	<b>10.4994</b>		<b>48,081.9797</b>	<b>48,081.9797</b>	<b>1.7703</b>		<b>48,126.2373</b>

**3.5 Building Construction - 2027**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2027**

**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	2.0766	77.4184	19.8854	0.2323	6.1221	0.1009	6.2230	1.7614	0.0965	1.8579		24,686.71 36	24,686.71 36	1.3093		24,719.44 52
Worker	10.8692	5.8928	66.5902	0.2253	31.8961	0.1812	32.0774	8.4607	0.1668	8.6275		22,466.31 39	22,466.31 39	0.4066		22,476.47 95
<b>Total</b>	<b>12.9458</b>	<b>83.3111</b>	<b>86.4756</b>	<b>0.4576</b>	<b>38.0182</b>	<b>0.2821</b>	<b>38.3004</b>	<b>10.2221</b>	<b>0.2633</b>	<b>10.4854</b>		<b>47,153.02 75</b>	<b>47,153.02 75</b>	<b>1.7159</b>		<b>47,195.92 47</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2027**

**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	2.0766	77.4184	19.8854	0.2323	6.1221	0.1009	6.2230	1.7614	0.0965	1.8579		24,686.71 36	24,686.71 36	1.3093		24,719.44 52
Worker	10.8692	5.8928	66.5902	0.2253	31.8961	0.1812	32.0774	8.4607	0.1668	8.6275		22,466.31 39	22,466.31 39	0.4066		22,476.47 95
<b>Total</b>	<b>12.9458</b>	<b>83.3111</b>	<b>86.4756</b>	<b>0.4576</b>	<b>38.0182</b>	<b>0.2821</b>	<b>38.3004</b>	<b>10.2221</b>	<b>0.2633</b>	<b>10.4854</b>		<b>47,153.02 75</b>	<b>47,153.02 75</b>	<b>1.7159</b>		<b>47,195.92 47</b>

**3.5 Building Construction - 2028**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2028**

**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	2.0099	76.2955	19.1438	0.2312	6.1218	0.0961	6.2179	1.7613	0.0919	1.8532		24,580.6075	24,580.6075	1.2948		24,612.9779
Worker	10.2405	5.4063	62.2932	0.2181	31.8961	0.1691	32.0653	8.4607	0.1557	8.6164		21,752.3503	21,752.3503	0.3720		21,761.6501
<b>Total</b>	<b>12.2504</b>	<b>81.7018</b>	<b>81.4369</b>	<b>0.4493</b>	<b>38.0179</b>	<b>0.2653</b>	<b>38.2831</b>	<b>10.2220</b>	<b>0.2476</b>	<b>10.4696</b>		<b>46,332.9578</b>	<b>46,332.9578</b>	<b>1.6668</b>		<b>46,374.6280</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2028**

**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	2.0099	76.2955	19.1438	0.2312	6.1218	0.0961	6.2179	1.7613	0.0919	1.8532		24,580.6075	24,580.6075	1.2948		24,612.9779
Worker	10.2405	5.4063	62.2932	0.2181	31.8961	0.1691	32.0653	8.4607	0.1557	8.6164		21,752.3503	21,752.3503	0.3720		21,761.6501
<b>Total</b>	<b>12.2504</b>	<b>81.7018</b>	<b>81.4369</b>	<b>0.4493</b>	<b>38.0179</b>	<b>0.2653</b>	<b>38.2831</b>	<b>10.2220</b>	<b>0.2476</b>	<b>10.4696</b>		<b>46,332.9578</b>	<b>46,332.9578</b>	<b>1.6668</b>		<b>46,374.6280</b>

**3.5 Building Construction - 2029**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2029**

**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	1.9498	75.2275	18.5206	0.2303	6.1214	0.0912	6.2127	1.7611	0.0872	1.8484		24,484.0111	24,484.0111	1.2804		24,516.0213
Worker	9.5509	4.9521	58.1582	0.2117	31.8961	0.1575	32.0537	8.4607	0.1450	8.6057		21,119.3410	21,119.3410	0.3390		21,127.8154
<b>Total</b>	<b>11.5007</b>	<b>80.1796</b>	<b>76.6789</b>	<b>0.4420</b>	<b>38.0175</b>	<b>0.2488</b>	<b>38.2663</b>	<b>10.2219</b>	<b>0.2322</b>	<b>10.4541</b>		<b>45,603.3521</b>	<b>45,603.3521</b>	<b>1.6194</b>		<b>45,643.8368</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.4744</b>	<b>2,556.4744</b>	<b>0.6010</b>		<b>2,571.4981</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2029**

**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	1.9498	75.2275	18.5206	0.2303	6.1214	0.0912	6.2127	1.7611	0.0872	1.8484		24,484.0111	24,484.0111	1.2804		24,516.0213
Worker	9.5509	4.9521	58.1582	0.2117	31.8961	0.1575	32.0537	8.4607	0.1450	8.6057		21,119.3410	21,119.3410	0.3390		21,127.8154
<b>Total</b>	<b>11.5007</b>	<b>80.1796</b>	<b>76.6789</b>	<b>0.4420</b>	<b>38.0175</b>	<b>0.2488</b>	<b>38.2663</b>	<b>10.2219</b>	<b>0.2322</b>	<b>10.4541</b>		<b>45,603.3521</b>	<b>45,603.3521</b>	<b>1.6194</b>		<b>45,643.8368</b>

**3.5 Building Construction - 2030**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2030**

**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	1.8956	74.2270	18.0064	0.2294	6.1211	0.0863	6.2074	1.7610	0.0825	1.8435		24,397.50 93	24,397.50 93	1.2655		24,429.14 58
Worker	8.8834	4.5422	54.4388	0.2061	31.8961	0.1468	32.0429	8.4607	0.1350	8.5958		20,561.55 69	20,561.55 69	0.3096		20,569.29 71
<b>Total</b>	<b>10.7790</b>	<b>78.7691</b>	<b>72.4452</b>	<b>0.4355</b>	<b>38.0173</b>	<b>0.2331</b>	<b>38.2503</b>	<b>10.2218</b>	<b>0.2175</b>	<b>10.4393</b>		<b>44,959.06 62</b>	<b>44,959.06 62</b>	<b>1.5751</b>		<b>44,998.44 29</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2030**

**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	1.8956	74.2270	18.0064	0.2294	6.1211	0.0863	6.2074	1.7610	0.0825	1.8435		24,397.5093	24,397.5093	1.2655		24,429.1458
Worker	8.8834	4.5422	54.4388	0.2061	31.8961	0.1468	32.0429	8.4607	0.1350	8.5958		20,561.5569	20,561.5569	0.3096		20,569.2971
<b>Total</b>	<b>10.7790</b>	<b>78.7691</b>	<b>72.4452</b>	<b>0.4355</b>	<b>38.0173</b>	<b>0.2331</b>	<b>38.2503</b>	<b>10.2218</b>	<b>0.2175</b>	<b>10.4393</b>		<b>44,959.0662</b>	<b>44,959.0662</b>	<b>1.5751</b>		<b>44,998.4429</b>

**3.5 Building Construction - 2031**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2031**

**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	1.8497	73.3198	17.5833	0.2287	6.1209	0.0819	6.2028	1.7609	0.0783	1.8393		24,323.7874	24,323.7874	1.2526		24,355.1014
Worker	8.1727	4.1550	50.8831	0.2011	31.8961	0.1365	32.0326	8.4607	0.1256	8.5863		20,072.0888	20,072.0888	0.2821		20,079.1406
<b>Total</b>	<b>10.0223</b>	<b>77.4748</b>	<b>68.4663</b>	<b>0.4298</b>	<b>38.0170</b>	<b>0.2184</b>	<b>38.2354</b>	<b>10.2217</b>	<b>0.2039</b>	<b>10.4256</b>		<b>44,395.8761</b>	<b>44,395.8761</b>	<b>1.5346</b>		<b>44,434.2421</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2031**

**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	1.8497	73.3198	17.5833	0.2287	6.1209	0.0819	6.2028	1.7609	0.0783	1.8393		24,323.7874	24,323.7874	1.2526		24,355.1014
Worker	8.1727	4.1550	50.8831	0.2011	31.8961	0.1365	32.0326	8.4607	0.1256	8.5863		20,072.0888	20,072.0888	0.2821		20,079.1406
<b>Total</b>	<b>10.0223</b>	<b>77.4748</b>	<b>68.4663</b>	<b>0.4298</b>	<b>38.0170</b>	<b>0.2184</b>	<b>38.2354</b>	<b>10.2217</b>	<b>0.2039</b>	<b>10.4256</b>		<b>44,395.8761</b>	<b>44,395.8761</b>	<b>1.5346</b>		<b>44,434.2421</b>

**3.5 Building Construction - 2032**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2032**

**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	1.8116	72.4783	17.2471	0.2281	6.1207	0.0785	6.1992	1.7609	0.0750	1.8359		24,263.431 1	24,263.431 1	1.2412		24,294.46 12
Worker	7.5379	3.8213	47.7511	0.1968	31.8961	0.1270	32.0231	8.4607	0.1168	8.5776		19,645.87 67	19,645.87 67	0.2581		19,652.32 92
<b>Total</b>	<b>9.3495</b>	<b>76.2996</b>	<b>64.9982</b>	<b>0.4249</b>	<b>38.0168</b>	<b>0.2054</b>	<b>38.2223</b>	<b>10.2216</b>	<b>0.1918</b>	<b>10.4134</b>		<b>43,909.30 78</b>	<b>43,909.30 78</b>	<b>1.4993</b>		<b>43,946.79 04</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2032**

**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	1.8116	72.4783	17.2471	0.2281	6.1207	0.0785	6.1992	1.7609	0.0750	1.8359		24,263.4311	24,263.4311	1.2412		24,294.4612
Worker	7.5379	3.8213	47.7511	0.1968	31.8961	0.1270	32.0231	8.4607	0.1168	8.5776		19,645.8767	19,645.8767	0.2581		19,652.3292
<b>Total</b>	<b>9.3495</b>	<b>76.2996</b>	<b>64.9982</b>	<b>0.4249</b>	<b>38.0168</b>	<b>0.2054</b>	<b>38.2223</b>	<b>10.2216</b>	<b>0.1918</b>	<b>10.4134</b>		<b>43,909.3078</b>	<b>43,909.3078</b>	<b>1.4993</b>		<b>43,946.7904</b>

**3.5 Building Construction - 2033**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2033**

**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	1.7794	71.7300	16.9615	0.2275	6.1205	0.0755	6.1960	1.7608	0.0722	1.8330		24,210.44 18	24,210.44 18	1.2312		24,241.221 1
Worker	7.0216	3.5482	45.1133	0.1931	31.8961	0.1184	32.0146	8.4607	0.1090	8.5697		19,278.47 15	19,278.47 15	0.2381		19,284.42 49
<b>Total</b>	<b>8.8010</b>	<b>75.2782</b>	<b>62.0748</b>	<b>0.4206</b>	<b>38.0166</b>	<b>0.1940</b>	<b>38.2106</b>	<b>10.2215</b>	<b>0.1811</b>	<b>10.4027</b>		<b>43,488.91 32</b>	<b>43,488.91 32</b>	<b>1.4693</b>		<b>43,525.64 59</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2033**

**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	1.7794	71.7300	16.9615	0.2275	6.1205	0.0755	6.1960	1.7608	0.0722	1.8330		24,210.44 18	24,210.44 18	1.2312		24,241.221 1
Worker	7.0216	3.5482	45.1133	0.1931	31.8961	0.1184	32.0146	8.4607	0.1090	8.5697		19,278.47 15	19,278.47 15	0.2381		19,284.42 49
<b>Total</b>	<b>8.8010</b>	<b>75.2782</b>	<b>62.0748</b>	<b>0.4206</b>	<b>38.0166</b>	<b>0.1940</b>	<b>38.2106</b>	<b>10.2215</b>	<b>0.1811</b>	<b>10.4027</b>		<b>43,488.91 32</b>	<b>43,488.91 32</b>	<b>1.4693</b>		<b>43,525.64 59</b>

**3.5 Building Construction - 2034**

**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	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.546 8	2,897.546 8	0.1162		2,900.452 9
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>		<b>2,897.546 8</b>	<b>2,897.546 8</b>	<b>0.1162</b>		<b>2,900.452 9</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2034**

**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	1.7497	71.0363	16.7013	0.2271	6.1204	0.0727	6.1930	1.7608	0.0695	1.8302		24,165.7604	24,165.7604	1.2218		24,196.3043
Worker	6.5697	3.3154	42.6167	0.1899	31.8961	0.1105	32.0066	8.4607	0.1016	8.5624		18,961.0559	18,961.0559	0.2195		18,966.5432
<b>Total</b>	<b>8.3194</b>	<b>74.3517</b>	<b>59.3180</b>	<b>0.4170</b>	<b>38.0165</b>	<b>0.1831</b>	<b>38.1996</b>	<b>10.2215</b>	<b>0.1711</b>	<b>10.3926</b>		<b>43,126.8162</b>	<b>43,126.8162</b>	<b>1.4413</b>		<b>43,162.8475</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
<b>Total</b>	<b>1.3091</b>	<b>7.9346</b>	<b>16.1570</b>	<b>0.0310</b>		<b>0.1481</b>	<b>0.1481</b>		<b>0.1481</b>	<b>0.1481</b>	<b>0.0000</b>	<b>2,897.5468</b>	<b>2,897.5468</b>	<b>0.1162</b>		<b>2,900.4529</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.5 Building Construction - 2034**

**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	1.7497	71.0363	16.7013	0.2271	6.1204	0.0727	6.1930	1.7608	0.0695	1.8302		24,165.7604	24,165.7604	1.2218		24,196.3043
Worker	6.5697	3.3154	42.6167	0.1899	31.8961	0.1105	32.0066	8.4607	0.1016	8.5624		18,961.0559	18,961.0559	0.2195		18,966.5432
<b>Total</b>	<b>8.3194</b>	<b>74.3517</b>	<b>59.3180</b>	<b>0.4170</b>	<b>38.0165</b>	<b>0.1831</b>	<b>38.1996</b>	<b>10.2215</b>	<b>0.1711</b>	<b>10.3926</b>		<b>43,126.8162</b>	<b>43,126.8162</b>	<b>1.4413</b>		<b>43,162.8475</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2243</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>		<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Paving - 2021**

**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	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419
<b>Total</b>	<b>0.0554</b>	<b>0.0380</b>	<b>0.3827</b>	<b>1.0100e-003</b>	<b>0.1141</b>	<b>7.7000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.1000e-004</b>	<b>0.0310</b>		<b>100.9746</b>	<b>100.9746</b>	<b>2.6900e-003</b>		<b>101.0419</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2243</b>	<b>12.9191</b>	<b>14.6532</b>	<b>0.0228</b>		<b>0.6777</b>	<b>0.6777</b>		<b>0.6235</b>	<b>0.6235</b>	<b>0.0000</b>	<b>2,207.2109</b>	<b>2,207.2109</b>	<b>0.7139</b>		<b>2,225.0573</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Paving - 2021**

**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	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419
<b>Total</b>	<b>0.0554</b>	<b>0.0380</b>	<b>0.3827</b>	<b>1.0100e-003</b>	<b>0.1141</b>	<b>7.7000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>7.1000e-004</b>	<b>0.0310</b>		<b>100.9746</b>	<b>100.9746</b>	<b>2.6900e-003</b>		<b>101.0419</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0715</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Paving - 2022**

**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	0.0518	0.0342	0.3510	9.8000e-004	0.1141	7.5000e-004	0.1149	0.0303	6.9000e-004	0.0310		97.3592	97.3592	2.4100e-003		97.4196
<b>Total</b>	<b>0.0518</b>	<b>0.0342</b>	<b>0.3510</b>	<b>9.8000e-004</b>	<b>0.1141</b>	<b>7.5000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>6.9000e-004</b>	<b>0.0310</b>		<b>97.3592</b>	<b>97.3592</b>	<b>2.4100e-003</b>		<b>97.4196</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.9687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.0715</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.6 Paving - 2022**

**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	0.0518	0.0342	0.3510	9.8000e-004	0.1141	7.5000e-004	0.1149	0.0303	6.9000e-004	0.0310		97.3592	97.3592	2.4100e-003		97.4196
<b>Total</b>	<b>0.0518</b>	<b>0.0342</b>	<b>0.3510</b>	<b>9.8000e-004</b>	<b>0.1141</b>	<b>7.5000e-004</b>	<b>0.1149</b>	<b>0.0303</b>	<b>6.9000e-004</b>	<b>0.0310</b>		<b>97.3592</b>	<b>97.3592</b>	<b>2.4100e-003</b>		<b>97.4196</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>40.7757</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2022**

**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	2.8959	1.9113	19.6314	0.0547	6.3823	0.0420	6.4242	1.6930	0.0387	1.7316		5,445.6265	5,445.6265	0.1350		5,449.0013
<b>Total</b>	<b>2.8959</b>	<b>1.9113</b>	<b>19.6314</b>	<b>0.0547</b>	<b>6.3823</b>	<b>0.0420</b>	<b>6.4242</b>	<b>1.6930</b>	<b>0.0387</b>	<b>1.7316</b>		<b>5,445.6265</b>	<b>5,445.6265</b>	<b>0.1350</b>		<b>5,449.0013</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>40.7757</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2022**

**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	2.8959	1.9113	19.6314	0.0547	6.3823	0.0420	6.4242	1.6930	0.0387	1.7316		5,445.6265	5,445.6265	0.1350		5,449.0013
<b>Total</b>	<b>2.8959</b>	<b>1.9113</b>	<b>19.6314</b>	<b>0.0547</b>	<b>6.3823</b>	<b>0.0420</b>	<b>6.4242</b>	<b>1.6930</b>	<b>0.0387</b>	<b>1.7316</b>		<b>5,445.6265</b>	<b>5,445.6265</b>	<b>0.1350</b>		<b>5,449.0013</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>40.7628</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.7135	1.7193	17.9870	0.0526	6.3823	0.0409	6.4232	1.6930	0.0377	1.7307		5,241.2086	5,241.2086	0.1207		5,244.2264
<b>Total</b>	<b>2.7135</b>	<b>1.7193</b>	<b>17.9870</b>	<b>0.0526</b>	<b>6.3823</b>	<b>0.0409</b>	<b>6.4232</b>	<b>1.6930</b>	<b>0.0377</b>	<b>1.7307</b>		<b>5,241.2086</b>	<b>5,241.2086</b>	<b>0.1207</b>		<b>5,244.2264</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>40.7628</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.7135	1.7193	17.9870	0.0526	6.3823	0.0409	6.4232	1.6930	0.0377	1.7307		5,241.2086	5,241.2086	0.1207		5,244.2264
<b>Total</b>	<b>2.7135</b>	<b>1.7193</b>	<b>17.9870</b>	<b>0.0526</b>	<b>6.3823</b>	<b>0.0409</b>	<b>6.4232</b>	<b>1.6930</b>	<b>0.0377</b>	<b>1.7307</b>		<b>5,241.2086</b>	<b>5,241.2086</b>	<b>0.1207</b>		<b>5,244.2264</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>40.7519</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.5551	1.5538	16.6301	0.0506	6.3823	0.0400	6.4223	1.6930	0.0369	1.7298		5,037.5476	5,037.5476	0.1087		5,040.2646
<b>Total</b>	<b>2.5551</b>	<b>1.5538</b>	<b>16.6301</b>	<b>0.0506</b>	<b>6.3823</b>	<b>0.0400</b>	<b>6.4223</b>	<b>1.6930</b>	<b>0.0369</b>	<b>1.7298</b>		<b>5,037.5476</b>	<b>5,037.5476</b>	<b>0.1087</b>		<b>5,040.2646</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>40.7519</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.5551	1.5538	16.6301	0.0506	6.3823	0.0400	6.4223	1.6930	0.0369	1.7298		5,037.5476	5,037.5476	0.1087		5,040.2646
<b>Total</b>	<b>2.5551</b>	<b>1.5538</b>	<b>16.6301</b>	<b>0.0506</b>	<b>6.3823</b>	<b>0.0400</b>	<b>6.4223</b>	<b>1.6930</b>	<b>0.0369</b>	<b>1.7298</b>		<b>5,037.5476</b>	<b>5,037.5476</b>	<b>0.1087</b>		<b>5,040.2646</b>

**3.7 Architectural Coating - 2025**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2025**

**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	2.4164	1.4108	15.3849	0.0485	6.3823	0.0393	6.4216	1.6930	0.0362	1.7291		4,835.9418	4,835.9418	0.0984		4,838.4007
<b>Total</b>	<b>2.4164</b>	<b>1.4108</b>	<b>15.3849</b>	<b>0.0485</b>	<b>6.3823</b>	<b>0.0393</b>	<b>6.4216</b>	<b>1.6930</b>	<b>0.0362</b>	<b>1.7291</b>		<b>4,835.9418</b>	<b>4,835.9418</b>	<b>0.0984</b>		<b>4,838.4007</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2025**

**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	2.4164	1.4108	15.3849	0.0485	6.3823	0.0393	6.4216	1.6930	0.0362	1.7291		4,835.9418	4,835.9418	0.0984		4,838.4007
<b>Total</b>	<b>2.4164</b>	<b>1.4108</b>	<b>15.3849</b>	<b>0.0485</b>	<b>6.3823</b>	<b>0.0393</b>	<b>6.4216</b>	<b>1.6930</b>	<b>0.0362</b>	<b>1.7291</b>		<b>4,835.9418</b>	<b>4,835.9418</b>	<b>0.0984</b>		<b>4,838.4007</b>

**3.7 Architectural Coating - 2026**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2026**

**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	2.2947	1.2887	14.3018	0.0467	6.3823	0.0381	6.4204	1.6930	0.0351	1.7281		4,656.2920	4,656.2920	0.0894		4,658.5275
<b>Total</b>	<b>2.2947</b>	<b>1.2887</b>	<b>14.3018</b>	<b>0.0467</b>	<b>6.3823</b>	<b>0.0381</b>	<b>6.4204</b>	<b>1.6930</b>	<b>0.0351</b>	<b>1.7281</b>		<b>4,656.2920</b>	<b>4,656.2920</b>	<b>0.0894</b>		<b>4,658.5275</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2026**

**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	2.2947	1.2887	14.3018	0.0467	6.3823	0.0381	6.4204	1.6930	0.0351	1.7281		4,656.2920	4,656.2920	0.0894		4,658.5275
<b>Total</b>	<b>2.2947</b>	<b>1.2887</b>	<b>14.3018</b>	<b>0.0467</b>	<b>6.3823</b>	<b>0.0381</b>	<b>6.4204</b>	<b>1.6930</b>	<b>0.0351</b>	<b>1.7281</b>		<b>4,656.2920</b>	<b>4,656.2920</b>	<b>0.0894</b>		<b>4,658.5275</b>

**3.7 Architectural Coating - 2027**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2027**

**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	2.1749	1.1791	13.3244	0.0451	6.3823	0.0363	6.4185	1.6930	0.0334	1.7263		4,495.4060	4,495.4060	0.0814		4,497.4401
<b>Total</b>	<b>2.1749</b>	<b>1.1791</b>	<b>13.3244</b>	<b>0.0451</b>	<b>6.3823</b>	<b>0.0363</b>	<b>6.4185</b>	<b>1.6930</b>	<b>0.0334</b>	<b>1.7263</b>		<b>4,495.4060</b>	<b>4,495.4060</b>	<b>0.0814</b>		<b>4,497.4401</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2027**

**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	2.1749	1.1791	13.3244	0.0451	6.3823	0.0363	6.4185	1.6930	0.0334	1.7263		4,495.4060	4,495.4060	0.0814		4,497.4401
<b>Total</b>	<b>2.1749</b>	<b>1.1791</b>	<b>13.3244</b>	<b>0.0451</b>	<b>6.3823</b>	<b>0.0363</b>	<b>6.4185</b>	<b>1.6930</b>	<b>0.0334</b>	<b>1.7263</b>		<b>4,495.4060</b>	<b>4,495.4060</b>	<b>0.0814</b>		<b>4,497.4401</b>

**3.7 Architectural Coating - 2028**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2028**

**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	2.0491	1.0818	12.4646	0.0436	6.3823	0.0338	6.4161	1.6930	0.0311	1.7241		4,352.545 2	4,352.545 2	0.0744		4,354.406 0
<b>Total</b>	<b>2.0491</b>	<b>1.0818</b>	<b>12.4646</b>	<b>0.0436</b>	<b>6.3823</b>	<b>0.0338</b>	<b>6.4161</b>	<b>1.6930</b>	<b>0.0311</b>	<b>1.7241</b>		<b>4,352.545 2</b>	<b>4,352.545 2</b>	<b>0.0744</b>		<b>4,354.406 0</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2028**

**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	2.0491	1.0818	12.4646	0.0436	6.3823	0.0338	6.4161	1.6930	0.0311	1.7241		4,352.545 2	4,352.545 2	0.0744		4,354.406 0
<b>Total</b>	<b>2.0491</b>	<b>1.0818</b>	<b>12.4646</b>	<b>0.0436</b>	<b>6.3823</b>	<b>0.0338</b>	<b>6.4161</b>	<b>1.6930</b>	<b>0.0311</b>	<b>1.7241</b>		<b>4,352.545 2</b>	<b>4,352.545 2</b>	<b>0.0744</b>		<b>4,354.406 0</b>

**3.7 Architectural Coating - 2029**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2029**

**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	1.9111	0.9909	11.6372	0.0424	6.3823	0.0315	6.4138	1.6930	0.0290	1.7220		4,225.8829	4,225.8829	0.0678		4,227.5786
<b>Total</b>	<b>1.9111</b>	<b>0.9909</b>	<b>11.6372</b>	<b>0.0424</b>	<b>6.3823</b>	<b>0.0315</b>	<b>6.4138</b>	<b>1.6930</b>	<b>0.0290</b>	<b>1.7220</b>		<b>4,225.8829</b>	<b>4,225.8829</b>	<b>0.0678</b>		<b>4,227.5786</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>40.7420</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2029**

**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	1.9111	0.9909	11.6372	0.0424	6.3823	0.0315	6.4138	1.6930	0.0290	1.7220		4,225.8829	4,225.8829	0.0678		4,227.5786
<b>Total</b>	<b>1.9111</b>	<b>0.9909</b>	<b>11.6372</b>	<b>0.0424</b>	<b>6.3823</b>	<b>0.0315</b>	<b>6.4138</b>	<b>1.6930</b>	<b>0.0290</b>	<b>1.7220</b>		<b>4,225.8829</b>	<b>4,225.8829</b>	<b>0.0678</b>		<b>4,227.5786</b>

**3.7 Architectural Coating - 2030**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2030**

**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	1.7775	0.9089	10.8930	0.0412	6.3823	0.0294	6.4116	1.6930	0.0270	1.7200		4,114.2729	4,114.2729	0.0620		4,115.8217
<b>Total</b>	<b>1.7775</b>	<b>0.9089</b>	<b>10.8930</b>	<b>0.0412</b>	<b>6.3823</b>	<b>0.0294</b>	<b>6.4116</b>	<b>1.6930</b>	<b>0.0270</b>	<b>1.7200</b>		<b>4,114.2729</b>	<b>4,114.2729</b>	<b>0.0620</b>		<b>4,115.8217</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2030**

**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	1.7775	0.9089	10.8930	0.0412	6.3823	0.0294	6.4116	1.6930	0.0270	1.7200		4,114.2729	4,114.2729	0.0620		4,115.8217
<b>Total</b>	<b>1.7775</b>	<b>0.9089</b>	<b>10.8930</b>	<b>0.0412</b>	<b>6.3823</b>	<b>0.0294</b>	<b>6.4116</b>	<b>1.6930</b>	<b>0.0270</b>	<b>1.7200</b>		<b>4,114.2729</b>	<b>4,114.2729</b>	<b>0.0620</b>		<b>4,115.8217</b>

**3.7 Architectural Coating - 2031**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2031**

**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	1.6353	0.8314	10.1815	0.0403	6.3823	0.0273	6.4096	1.6930	0.0251	1.7181		4,016.3326	4,016.3326	0.0564		4,017.7436
<b>Total</b>	<b>1.6353</b>	<b>0.8314</b>	<b>10.1815</b>	<b>0.0403</b>	<b>6.3823</b>	<b>0.0273</b>	<b>6.4096</b>	<b>1.6930</b>	<b>0.0251</b>	<b>1.7181</b>		<b>4,016.3326</b>	<b>4,016.3326</b>	<b>0.0564</b>		<b>4,017.7436</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>



Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2031**

**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	1.6353	0.8314	10.1815	0.0403	6.3823	0.0273	6.4096	1.6930	0.0251	1.7181		4,016.3326	4,016.3326	0.0564		4,017.7436
<b>Total</b>	<b>1.6353</b>	<b>0.8314</b>	<b>10.1815</b>	<b>0.0403</b>	<b>6.3823</b>	<b>0.0273</b>	<b>6.4096</b>	<b>1.6930</b>	<b>0.0251</b>	<b>1.7181</b>		<b>4,016.3326</b>	<b>4,016.3326</b>	<b>0.0564</b>		<b>4,017.7436</b>

**3.7 Architectural Coating - 2032**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2032**

**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	1.5083	0.7646	9.5548	0.0394	6.3823	0.0254	6.4077	1.6930	0.0234	1.7163		3,931.0495	3,931.0495	0.0516		3,932.3406
<b>Total</b>	<b>1.5083</b>	<b>0.7646</b>	<b>9.5548</b>	<b>0.0394</b>	<b>6.3823</b>	<b>0.0254</b>	<b>6.4077</b>	<b>1.6930</b>	<b>0.0234</b>	<b>1.7163</b>		<b>3,931.0495</b>	<b>3,931.0495</b>	<b>0.0516</b>		<b>3,932.3406</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2032**

**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	1.5083	0.7646	9.5548	0.0394	6.3823	0.0254	6.4077	1.6930	0.0234	1.7163		3,931.0495	3,931.0495	0.0516		3,932.3406
<b>Total</b>	<b>1.5083</b>	<b>0.7646</b>	<b>9.5548</b>	<b>0.0394</b>	<b>6.3823</b>	<b>0.0254</b>	<b>6.4077</b>	<b>1.6930</b>	<b>0.0234</b>	<b>1.7163</b>		<b>3,931.0495</b>	<b>3,931.0495</b>	<b>0.0516</b>		<b>3,932.3406</b>

**3.7 Architectural Coating - 2033**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2033**

**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	1.4050	0.7100	9.0270	0.0386	6.3823	0.0237	6.4060	1.6930	0.0218	1.7148		3,857.5334	3,857.5334	0.0477		3,858.7247
<b>Total</b>	<b>1.4050</b>	<b>0.7100</b>	<b>9.0270</b>	<b>0.0386</b>	<b>6.3823</b>	<b>0.0237</b>	<b>6.4060</b>	<b>1.6930</b>	<b>0.0218</b>	<b>1.7148</b>		<b>3,857.5334</b>	<b>3,857.5334</b>	<b>0.0477</b>		<b>3,858.7247</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2033**

**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	1.4050	0.7100	9.0270	0.0386	6.3823	0.0237	6.4060	1.6930	0.0218	1.7148		3,857.5334	3,857.5334	0.0477		3,858.7247
<b>Total</b>	<b>1.4050</b>	<b>0.7100</b>	<b>9.0270</b>	<b>0.0386</b>	<b>6.3823</b>	<b>0.0237</b>	<b>6.4060</b>	<b>1.6930</b>	<b>0.0218</b>	<b>1.7148</b>		<b>3,857.5334</b>	<b>3,857.5334</b>	<b>0.0477</b>		<b>3,858.7247</b>

**3.7 Architectural Coating - 2034**

**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	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

**3.7 Architectural Coating - 2034**

**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	1.3146	0.6634	8.5274	0.0380	6.3823	0.0221	6.4044	1.6930	0.0203	1.7133		3,794.0200	3,794.0200	0.0439		3,795.1180
<b>Total</b>	<b>1.3146</b>	<b>0.6634</b>	<b>8.5274</b>	<b>0.0380</b>	<b>6.3823</b>	<b>0.0221</b>	<b>6.4044</b>	<b>1.6930</b>	<b>0.0203</b>	<b>1.7133</b>		<b>3,794.0200</b>	<b>3,794.0200</b>	<b>0.0439</b>		<b>3,795.1180</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	40.5711					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203	0.0000	281.4481	281.4481	0.0114		281.7328
<b>Total</b>	<b>40.7019</b>	<b>0.8563</b>	<b>1.7977</b>	<b>2.9700e-003</b>		<b>0.0203</b>	<b>0.0203</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0114</b>		<b>281.7328</b>

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**3.7 Architectural Coating - 2034**

**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	1.3146	0.6634	8.5274	0.0380	6.3823	0.0221	6.4044	1.6930	0.0203	1.7133		3,794.0200	3,794.0200	0.0439		3,795.1180
<b>Total</b>	<b>1.3146</b>	<b>0.6634</b>	<b>8.5274</b>	<b>0.0380</b>	<b>6.3823</b>	<b>0.0221</b>	<b>6.4044</b>	<b>1.6930</b>	<b>0.0203</b>	<b>1.7133</b>		<b>3,794.0200</b>	<b>3,794.0200</b>	<b>0.0439</b>		<b>3,795.1180</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Jackson CEQA Alt 2 Adjusted Construction 2035 Op Yr With 2019 T24 - Sacramento County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	104.8930	607.9251	1,125.8562	4.5590	540.9455	2.5253	543.4708	144.4241	2.3454	146.7695		465,608.9177	465,608.9177	20.1050		466,111.5416
Unmitigated	104.8930	607.9251	1,125.8562	4.5590	540.9455	2.5253	543.4708	144.4241	2.3454	146.7695		465,608.9177	465,608.9177	20.1050		466,111.5416

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	13,632.50	13,099.50	12013.00	34,193,402	34,193,402
Apartments Mid Rise	665.00	639.00	586.00	1,667,971	1,667,971
City Park	76.73	923.65	679.64	523,693	523,693
City Park	72.20	869.05	639.47	492,736	492,736
Convenience Market (24 Hour)	2,435.37	2,848.23	2502.89	1,403,707	1,403,707
Discount Club	8,151.00	10,481.25	6565.65	10,162,268	10,162,268
Elementary School	3,471.75	0.00	0.00	5,214,694	5,214,694
Fast Food Restaurant with Drive Thru	19,348.68	28,159.17	21166.08	14,414,777	14,414,777
Gasoline/Service Station	8,090.88	8,090.88	8090.88	3,464,556	3,464,556
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,732,278	1,732,278
General Office Building	8,455.60	1,885.84	804.93	13,266,451	13,266,451
Hardware/Paint Store	1,666.93	2,681.90	2231.13	2,164,945	2,164,945
High School	3,222.50	1,092.50	447.50	6,568,328	6,568,328
Home Improvement Superstore	4,995.25	9,217.00	9067.50	5,480,713	5,480,713
Library	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		



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Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,149.58	3,149.58	3149.58	2,732,839	2,732,839
Single Family Housing	33,700.80	35,081.40	30514.80	85,818,090	85,818,090
Strip Mall	5,043.62	4,784.15	2324.93	5,678,881	5,678,881
Strip Mall	7,685.09	7,289.74	3542.56	8,653,058	8,653,058
Strip Mall	11,097.73	10,526.82	5115.67	12,495,534	12,495,534
Supermarket	6,645.60	11,543.35	10818.60	6,833,995	6,833,995
User Defined Industrial	0.00	0.00	0.00		
<b>Total</b>	<b>145,652.23</b>	<b>156,408.44</b>	<b>124,306.25</b>	<b>222,962,916</b>	<b>222,962,916</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Apartments Mid Rise	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Convenience Market (24 Hour)	10.00	5.00	6.50	0.90	80.10	19.00	24	15	61
Discount Club	10.00	5.00	6.50	16.70	64.30	19.00	45	40	15
Elementary School	10.00	5.00	6.50	65.00	30.00	5.00	63	25	12

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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
Fast Food Restaurant with Drive	10.00	5.00	6.50	2.20	78.80	19.00	29	21	50
Gasoline/Service Station	10.00	5.00	6.50	2.00	79.00	19.00	14	27	59
Gasoline/Service Station	10.00	5.00	6.50	2.00	79.00	19.00	14	27	59
General Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4
Hardware/Paint Store	10.00	5.00	6.50	13.60	67.40	19.00	45	29	26
High School	10.00	5.00	6.50	77.80	17.20	5.00	75	19	6
Home Improvement Superstore	10.00	5.00	6.50	23.40	57.60	19.00	32	20	48
Library	10.00	5.00	6.50	52.00	43.00	5.00	44	44	12
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36

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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
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

5.0 Energy Detail

Historical Energy Use: N

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**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.7260	32.2898	16.8436	0.2032		2.5743	2.5743		2.5743	2.5743		40,647.4924	40,647.4924	0.7791	0.7452	40,889.0401
NaturalGas Unmitigated	4.2501	36.8258	19.1700	0.2318		2.9365	2.9365		2.9365	2.9365		46,364.9639	46,364.9639	0.8887	0.8500	46,640.4877

**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 Mid Rise	2670.71	0.0288	0.2461	0.1047	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.2015	314.2015	6.0200e-003	5.7600e-003	316.0686
Apartments Mid Rise	54749.6	0.5904	5.0456	2.1470	0.0322		0.4079	0.4079		0.4079	0.4079		6,441.1297	6,441.1297	0.1235	0.1181	6,479.4062
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market (24 Hour)	49.0027	5.3000e-004	4.8000e-003	4.0400e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.7650	5.7650	1.1000e-004	1.1000e-004	5.7993
Discount Club	2895.62	0.0312	0.2839	0.2385	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.6608	340.6608	6.5300e-003	6.2500e-003	342.6851
Elementary School	9406.85	0.1015	0.9222	0.7747	5.5300e-003		0.0701	0.0701		0.0701	0.0701		1,106.6882	1,106.6882	0.0212	0.0203	1,113.2647
Fast Food Restaurant with Drive Thru	18987.1	0.2048	1.8615	1.5637	0.0112		0.1415	0.1415		0.1415	0.1415		2,233.7792	2,233.7792	0.0428	0.0410	2,247.0534
Gasoline/Service Station	294.329	3.1700e-003	0.0289	0.0242	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003		34.6269	34.6269	6.6000e-004	6.3000e-004	34.8327
Gasoline/Service Station	637.712	6.8800e-003	0.0625	0.0525	3.8000e-004		4.7500e-003	4.7500e-003		4.7500e-003	4.7500e-003		75.0250	75.0250	1.4400e-003	1.3800e-003	75.4708
General Office Building	27513.6	0.2967	2.6974	2.2658	0.0162		0.2050	0.2050		0.2050	0.2050		3,236.8928	3,236.8928	0.0620	0.0593	3,256.1281
Hardware/Paint Store	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
High School	10452.1	0.1127	1.0247	0.8608	6.1500e-003		0.0779	0.0779		0.0779	0.0779		1,229.6535	1,229.6535	0.0236	0.0225	1,236.9607
Home Improvement Superstore	2413.01	0.0260	0.2366	0.1987	1.4200e-003		0.0180	0.0180		0.0180	0.0180		283.8840	283.8840	5.4400e-003	5.2000e-003	285.5710
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	482.603	5.2000e-003	0.0473	0.0397	2.8000e-004		3.6000e-003	3.6000e-003		3.6000e-003	3.6000e-003		56.7768	56.7768	1.0900e-003	1.0400e-003	57.1142
Single Family Housing	250561	2.7021	23.0909	9.8259	0.1474		1.8669	1.8669		1.8669	1.8669		29,477.7768	29,477.7768	0.5650	0.5404	29,652.9485
Strip Mall	1689.85	0.0182	0.1657	0.1392	9.9000e-004		0.0126	0.0126		0.0126	0.0126		198.8061	198.8061	3.8100e-003	3.6400e-003	199.9875
Strip Mall	2574.87	0.0278	0.2524	0.2121	1.5100e-003		0.0192	0.0192		0.0192	0.0192		302.9260	302.9260	5.8100e-003	5.5500e-003	304.7262
Strip Mall	3718.27	0.0401	0.3645	0.3062	2.1900e-003		0.0277	0.0277		0.0277	0.0277		437.4434	437.4434	8.3800e-003	8.0200e-003	440.0429

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	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					
Supermarket	4523.29	0.0488	0.4435	0.3725	2.6600e-003		0.0337	0.0337		0.0337	0.0337		532.1515	532.1515	0.0102	9.7600e-003	535.3138
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.2501</b>	<b>36.8258</b>	<b>19.1700</b>	<b>0.2318</b>		<b>2.9365</b>	<b>2.9365</b>		<b>2.9365</b>	<b>2.9365</b>		<b>46,364.9639</b>	<b>46,364.9639</b>	<b>0.8887</b>	<b>0.8500</b>	<b>46,640.4877</b>

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2.38827	0.0258	0.2201	0.0937	1.4000e-003		0.0178	0.0178		0.0178	0.0178		280.9727	280.9727	5.3900e-003	5.1500e-003	282.6424
Apartments Mid Rise	48.9595	0.5280	4.5120	1.9200	0.0288		0.3648	0.3648		0.3648	0.3648		5,759.9413	5,759.9413	0.1104	0.1056	5,794.1697
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	0.0430759	4.6000e-004	4.2200e-003	3.5500e-003	3.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004		5.0678	5.0678	1.0000e-004	9.0000e-005	5.0979
Discount Club	2.5454	0.0275	0.2496	0.2096	1.5000e-003		0.0190	0.0190		0.0190	0.0190		299.4584	299.4584	5.7400e-003	5.4900e-003	301.2379
Elementary School	8.09285	0.0873	0.7934	0.6665	4.7600e-003		0.0603	0.0603		0.0603	0.0603		952.0999	952.0999	0.0183	0.0175	957.7578
Fast Food Restaurant with Drive Thru	18.0564	0.1947	1.7702	1.4870	0.0106		0.1345	0.1345		0.1345	0.1345		2,124.2856	2,124.2856	0.0407	0.0390	2,136.9091
Gasoline/Service Station	0.266261	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9800e-003	1.9800e-003		1.9800e-003	1.9800e-003		31.3248	31.3248	6.0000e-004	5.7000e-004	31.5109
Gasoline/Service Station	0.576898	6.2200e-003	0.0566	0.0475	3.4000e-004		4.3000e-003	4.3000e-003		4.3000e-003	4.3000e-003		67.8704	67.8704	1.3000e-003	1.2400e-003	68.2737

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	23.7051	0.2556	2.3240	1.9522	0.0139		0.1766	0.1766		0.1766	0.1766		2,788.8377	2,788.8377	0.0535	0.0511	2,805.4103
Hardware/Paint Store	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
High School	8.99205	0.0970	0.8816	0.7405	5.2900e-003		0.0670	0.0670		0.0670	0.0670		1,057.8888	1,057.8888	0.0203	0.0194	1,064.1753
Home Improvement Superstore	2.12116	0.0229	0.2080	0.1747	1.2500e-003		0.0158	0.0158		0.0158	0.0158		249.5487	249.5487	4.7800e-003	4.5800e-003	251.0316
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	0.424233	4.5800e-003	0.0416	0.0349	2.5000e-004		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003		49.9097	49.9097	9.6000e-004	9.2000e-004	50.2063
Single Family Housing	217.784	2.3487	20.0703	8.5406	0.1281		1.6227	1.6227		1.6227	1.6227		25,621.6440	25,621.6440	0.4911	0.4697	25,773.9006
Strip Mall	1.48547	0.0160	0.1456	0.1223	8.7000e-004		0.0111	0.0111		0.0111	0.0111		174.7609	174.7609	3.3500e-003	3.2000e-003	175.7994
Strip Mall	2.26344	0.0244	0.2219	0.1864	1.3300e-003		0.0169	0.0169		0.0169	0.0169		266.2876	266.2876	5.1000e-003	4.8800e-003	267.8700
Strip Mall	3.26855	0.0353	0.3205	0.2692	1.9200e-003		0.0244	0.0244		0.0244	0.0244		384.5353	384.5353	7.3700e-003	7.0500e-003	386.8204
Supermarket	4.10677	0.0443	0.4026	0.3382	2.4200e-003		0.0306	0.0306		0.0306	0.0306		483.1491	483.1491	9.2600e-003	8.8600e-003	486.0203
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.7260</b>	<b>32.2898</b>	<b>16.8436</b>	<b>0.2032</b>		<b>2.5743</b>	<b>2.5743</b>		<b>2.5743</b>	<b>2.5743</b>		<b>40,647.4924</b>	<b>40,647.4924</b>	<b>0.7791</b>	<b>0.7452</b>	<b>40,889.0401</b>

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24
Unmitigated	291.6070	48.7531	486.8535	0.3015		6.1104	6.1104		6.1104	6.1104	0.0000	56,187.78 48	56,187.78 48	1.8688	1.0146	56,536.85 24

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	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.17 65	55,341.17 65	1.0607	1.0146	55,670.04 14
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.78 48</b>	<b>56,187.78 48</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.85 24</b>



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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	35.8360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	236.6545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5.0729	43.3506	18.4471	0.2767		3.5049	3.5049		3.5049	3.5049	0.0000	55,341.1765	55,341.1765	1.0607	1.0146	55,670.0414
Landscaping	14.0436	5.4025	468.4064	0.0248		2.6055	2.6055		2.6055	2.6055		846.6083	846.6083	0.8081		866.8110
<b>Total</b>	<b>291.6070</b>	<b>48.7531</b>	<b>486.8535</b>	<b>0.3016</b>		<b>6.1104</b>	<b>6.1104</b>		<b>6.1104</b>	<b>6.1104</b>	<b>0.0000</b>	<b>56,187.7848</b>	<b>56,187.7848</b>	<b>1.8688</b>	<b>1.0146</b>	<b>56,536.8524</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX K**  
**ALTERNATIVE 2 ADDITIONAL MITIGATION CALCULATIONS**

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**APPENDIX K-1**  
**RESERVED**

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**APPENDIX K-2**  
**CaIEEMod RUN for HIGH EFFICACY LIGHTING**

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Jackson CEQA Alt 2 Default VMT Lighting 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Jackson CEQA Alt 2 Default VMT Lighting 2035 Op Yr With 2019 T24**  
**Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	766.60	1000sqft	21.36	766,600.00	0
Pharmacy/Drugstore with Drive Thru	32.50	1000sqft	1.20	32,500.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,213.00	0
Parking Lot	468.30	1000sqft	10.75	468,300.00	0
Parking Lot	390.30	1000sqft	8.96	390,300.00	0
Parking Lot	156.80	1000sqft	3.60	156,800.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	93.70	1000sqft	2.15	93,700.00	0
Parking Lot	273.10	1000sqft	6.27	273,100.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.40	1000sqft	0.17	7,400.00	0
Parking Lot	416.00	1000sqft	9.55	416,000.00	0
Parking Lot	343.20	1000sqft	7.88	343,200.00	0
Parking Lot	613.30	1000sqft	14.08	613,300.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0

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Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
City Park	40.60	Acre	40.60	1,768,536.00	0
City Park	38.20	Acre	38.20	1,663,992.00	0
Fast Food Restaurant with Drive Thru	39.00	1000sqft	1.43	39,000.00	0
Apartments Mid Rise	2,050.00	Dwelling Unit	82.00	2,050,000.00	5474
Apartments Mid Rise	100.00	Dwelling Unit	11.82	178,600.00	267
Single Family Housing	3,540.00	Dwelling Unit	507.10	6,372,000.00	9452
Convenience Market (24 Hour)	3.30	1000sqft	0.12	3,300.00	0
Discount Club	195.00	1000sqft	7.16	195,000.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.11	3,000.00	0
Hardware/Paint Store	32.50	1000sqft	1.20	32,500.00	0
Home Improvement Superstore	162.50	1000sqft	5.97	162,500.00	0
Strip Mall	113.80	1000sqft	4.18	113,800.00	0
Strip Mall	173.40	1000sqft	6.37	173,400.00	0
Strip Mall	250.40	1000sqft	0.00	250,400.00	0
Supermarket	65.00	1000sqft	2.40	65,000.00	0

1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	236.9	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O are default for SMUD.

Land Use - Land use and acreages per Applicant. Acreage for Multi-use shopping entered as 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards. Added minimum improvement (16%) due to high efficacy lighting (LE-1).

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,194,357.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,583,070.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,292.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	5,805,405.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	17,416,215.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00



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tblFireplaces	NumberGas	0.00	2,150.00
tblFireplaces	NumberGas	0.00	3,540.00
tblFireplaces	NumberNoFireplace	2,150.00	0.00
tblFireplaces	NumberNoFireplace	3,540.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,213.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	17.60	21.36
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.90	1.43
tblLandUse	LotAcreage	2.63	11.82
tblLandUse	LotAcreage	53.95	82.00
tblLandUse	LotAcreage	1,149.35	507.10
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	4.48	7.16
tblLandUse	LotAcreage	0.08	0.11
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	3.73	5.97
tblLandUse	LotAcreage	2.61	4.18
tblLandUse	LotAcreage	3.98	6.37
tblLandUse	LotAcreage	5.75	0.00
tblLandUse	LotAcreage	1.49	2.40

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	590.31	236.9
tblTripsAndVMT	VendorTripNumber	2,167.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	6,636.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	1,327.00	0.00

## 2.0 Emissions Summary

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Energy	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	15,243.7269	15,243.7269	1.0735	0.3324	15,369.6177
Mobile	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184
Waste						0.0000	0.0000		0.0000	0.0000	2,082.0255	0.0000	2,082.0255	123.0442	0.0000	5,158.1301
Water						0.0000	0.0000		0.0000	0.0000	217.1821	514.6403	731.8224	0.8105	0.4853	896.7150
<b>Total</b>	<b>70.1964</b>	<b>101.8548</b>	<b>231.4997</b>	<b>0.7900</b>	<b>82.9779</b>	<b>1.3278</b>	<b>84.3057</b>	<b>22.2169</b>	<b>1.2996</b>	<b>23.5164</b>	<b>2,299.2076</b>	<b>85,325.2663</b>	<b>87,624.4739</b>	<b>127.8077</b>	<b>0.8361</b>	<b>91,068.8361</b>

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**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	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Energy	0.6800	5.8929	3.0740	0.0371		0.4698	0.4698		0.4698	0.4698	0.0000	9,388.7296	9,388.7296	0.4545	0.1907	9,456.9276
Mobile	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184
Waste						0.0000	0.0000		0.0000	0.0000	2,082.0255	0.0000	2,082.0255	123.0442	0.0000	5,158.1301
Water						0.0000	0.0000		0.0000	0.0000	217.1821	514.6403	731.8224	0.8105	0.4853	896.7150
<b>Total</b>	<b>70.1007</b>	<b>101.0270</b>	<b>231.0751</b>	<b>0.7848</b>	<b>82.9779</b>	<b>1.2618</b>	<b>84.2396</b>	<b>22.2169</b>	<b>1.2335</b>	<b>23.4504</b>	<b>2,299.2076</b>	<b>79,470.2690</b>	<b>81,769.4766</b>	<b>127.1887</b>	<b>0.6945</b>	<b>85,156.1461</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.14</b>	<b>0.81</b>	<b>0.18</b>	<b>0.66</b>	<b>0.00</b>	<b>4.98</b>	<b>0.08</b>	<b>0.00</b>	<b>5.08</b>	<b>0.28</b>	<b>0.00</b>	<b>6.86</b>	<b>6.68</b>	<b>0.48</b>	<b>16.94</b>	<b>6.49</b>

**3.0 Construction Detail**

**Construction Phase**

## Jackson CEQA Alt 2 Default VMT Lighting 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

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

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

**Acres of Paving: 84.67**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Jackson CEQA Alt 2 Default VMT Lighting 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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

Jackson CEQA Alt 2 Default VMT Lighting 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184
Unmitigated	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184

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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	13,632.50	13,099.50	12013.00	34,193,402	34,193,402
Apartments Mid Rise	665.00	639.00	586.00	1,667,971	1,667,971
City Park	76.73	923.65	679.64	523,693	523,693
City Park	72.20	869.05	639.47	492,736	492,736
Convenience Market (24 Hour)	2,435.37	2,848.23	2502.89	1,403,707	1,403,707
Discount Club	8,151.00	10,481.25	6565.65	10,162,268	10,162,268
Elementary School	3,471.75	0.00	0.00	5,214,694	5,214,694
Fast Food Restaurant with Drive Thru	19,348.68	28,159.17	21166.08	14,414,777	14,414,777
Gasoline/Service Station	8,090.88	8,090.88	8090.88	3,464,556	3,464,556
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,732,278	1,732,278
General Office Building	8,455.60	1,885.84	804.93	13,266,451	13,266,451
Hardware/Paint Store	1,666.93	2,681.90	2231.13	2,164,945	2,164,945
High School	3,222.50	1,092.50	447.50	6,568,328	6,568,328
Home Improvement Superstore	4,995.25	9,217.00	9067.50	5,480,713	5,480,713
Library	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,149.58	3,149.58	3149.58	2,732,839	2,732,839
Single Family Housing	33,700.80	35,081.40	30514.80	85,818,090	85,818,090





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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
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,659.0813	2,659.0813	0.3255	0.0674	2,687.2885
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7,567.4871	7,567.4871	0.9264	0.1917	7,647.7619
NaturalGas Mitigated	0.6800	5.8929	3.0740	0.0371		0.4698	0.4698		0.4698	0.4698	0.0000	6,729.6482	6,729.6482	0.1290	0.1234	6,769.6392
NaturalGas Unmitigated	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	7,676.2398	7,676.2398	0.1471	0.1407	7,721.8558

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 Mid Rise	1.99836e+007	0.1078	0.9208	0.3918	5.8800e-003		0.0745	0.0745		0.0745	0.0745	0.0000	1,066.4013	1,066.4013	0.0204	0.0196	1,072.7384
Apartments Mid Rise	974810	5.2600e-003	0.0449	0.0191	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	52.0196	52.0196	1.0000e-003	9.5000e-004	52.3287
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	17886	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9545	0.9545	2.0000e-005	2.0000e-005	0.9601
Discount Club	1.0569e+006	5.7000e-003	0.0518	0.0435	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4002	56.4002	1.0800e-003	1.0300e-003	56.7354



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Total		0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	7,676.2398	7,676.2398	0.1471	0.1407	7,721.8558
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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	871718	4.7000e-003	0.0402	0.0171	2.6000e-004		3.2500e-003	3.2500e-003		3.2500e-003	3.2500e-003	0.0000	46.5182	46.5182	8.9000e-004	8.5000e-004	46.7946
Apartments Mid Rise	1.78702e+007	0.0964	0.8234	0.3504	5.2600e-003		0.0666	0.0666		0.0666	0.0666	0.0000	953.6229	953.6229	0.0183	0.0175	959.2898
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	15722.7	8.0000e-005	7.7000e-004	6.5000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8390	0.8390	2.0000e-005	2.0000e-005	0.8440
Discount Club	929070	5.0100e-003	0.0455	0.0383	2.7000e-004		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	49.5787	49.5787	9.5000e-004	9.1000e-004	49.8733
Elementary School	2.95389e+006	0.0159	0.1448	0.1216	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.6308	157.6308	3.0200e-003	2.8900e-003	158.5675
Fast Food Restaurant with Drive Thru	6.5906e+006	0.0355	0.3231	0.2714	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	351.6993	351.6993	6.7400e-003	6.4500e-003	353.7893
Gasoline/Service Station	210568	1.1400e-003	0.0103	8.6700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.2367	11.2367	2.2000e-004	2.1000e-004	11.3035
Gasoline/Service Station	97185.2	5.2000e-004	4.7600e-003	4.0000e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1862	5.1862	1.0000e-004	1.0000e-004	5.2170
General Office Building	8.65237e+006	0.0467	0.4241	0.3563	2.5400e-003		0.0322	0.0322		0.0322	0.0322	0.0000	461.7234	461.7234	8.8500e-003	8.4600e-003	464.4672
Hardware/Paint Store	154845	8.3000e-004	7.5900e-003	6.3800e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2631	8.2631	1.6000e-004	1.5000e-004	8.3122
High School	3.2821e+006	0.0177	0.1609	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	175.1454	175.1454	3.3600e-003	3.2100e-003	176.1862
Home Improvement Superstore	774225	4.1700e-003	0.0380	0.0319	2.3000e-004		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	41.3156	41.3156	7.9000e-004	7.6000e-004	41.5611

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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	154845	8.3000e-004	7.5900e-003	6.3800e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2631	8.2631	1.6000e-004	1.5000e-004	8.3122
Single Family Housing	7.94912e+007	0.4286	3.6628	1.5587	0.0234		0.2961	0.2961		0.2961	0.2961	0.0000	4,241.9505	4,241.9505	0.0813	0.0778	4,267.1583
Strip Mall	1.19302e+006	6.4300e-003	0.0585	0.0491	3.5000e-004		4.4400e-003	4.4400e-003		4.4400e-003	4.4400e-003	0.0000	63.6641	63.6641	1.2200e-003	1.1700e-003	64.0425
Strip Mall	542196	2.9200e-003	0.0266	0.0223	1.6000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	28.9336	28.9336	5.5000e-004	5.3000e-004	29.1056
Strip Mall	826157	4.4500e-003	0.0405	0.0340	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	44.0869	44.0869	8.4000e-004	8.1000e-004	44.3489
Supermarket	1.49897e+006	8.0800e-003	0.0735	0.0617	4.4000e-004		5.5800e-003	5.5800e-003		5.5800e-003	5.5800e-003	0.0000	79.9908	79.9908	1.5300e-003	1.4700e-003	80.4661
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.6800</b>	<b>5.8929</b>	<b>3.0740</b>	<b>0.0371</b>		<b>0.4698</b>	<b>0.4698</b>		<b>0.4698</b>	<b>0.4698</b>	<b>0.0000</b>	<b>6,729.6482</b>	<b>6,729.6482</b>	<b>0.1290</b>	<b>0.1234</b>	<b>6,769.6392</b>

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	425646	45.7382	5.6000e-003	1.1600e-003	46.2234
Apartments Mid Rise	8.72574e+006	937.6337	0.1148	0.0238	947.5800

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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	38181	4.1028	5.0000e-004	1.0000e-004	4.1463
Discount Club	2.25615e+006	242.4369	0.0297	6.1400e-003	245.0087
Elementary School	1.647e+006	176.9801	0.0217	4.4800e-003	178.8575
Fast Food Restaurant with Drive Thru	1.62669e+006	174.7977	0.0214	4.4300e-003	176.6519
Gasoline/Service Station	45540	4.8936	6.0000e-004	1.2000e-004	4.9455
Gasoline/Service Station	98670	10.6027	1.3000e-003	2.7000e-004	10.7152
General Office Building	1.10697e+007	1,189.5065	0.1456	0.0301	1,202.1246
Hardware/Paint Store	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
High School	1.83e+006	196.6445	0.0241	4.9800e-003	198.7305
Home Improvement Superstore	1.88013e+006	202.0308	0.0247	5.1200e-003	204.1739
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	120120	12.9076	1.5800e-003	3.3000e-004	13.0445
Parking Lot	136605	14.6790	1.8000e-003	3.7000e-004	14.8347
Parking Lot	145600	15.6456	1.9200e-003	4.0000e-004	15.8116
Parking Lot	163905	17.6126	2.1600e-003	4.5000e-004	17.7994



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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Parking Lot	213430	22.9343	2.8100e-003	5.8000e-004	23.1776
Parking Lot	214655	23.0660	2.8200e-003	5.8000e-004	23.3107
Parking Lot	2590	0.2783	3.0000e-005	1.0000e-005	0.2813
Parking Lot	2730	0.2934	4.0000e-005	1.0000e-005	0.2965
Parking Lot	27300	5.8671	7.2000e-004	1.5000e-004	5.9293
Parking Lot	32795	3.5240	4.3000e-004	9.0000e-005	3.5614
Parking Lot	47880	5.1450	6.3000e-004	1.3000e-004	5.1996
Parking Lot	54880	5.8972	7.2000e-004	1.5000e-004	5.9597
Parking Lot	5495	0.5905	7.0000e-005	1.0000e-005	0.5967
Parking Lot	95585	10.2712	1.2600e-003	2.6000e-004	10.3801
Pharmacy/Drugstore with Drive Thru	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
Single Family Housing	2.9891e+007	3,211.9663	0.3932	0.0814	3,246.0383
Strip Mall	1.31667e+006	141.4837	0.0173	3.5800e-003	142.9845
Strip Mall	2.00624e+006	215.5824	0.0264	5.4600e-003	217.8692
Strip Mall	2.89713e+006	311.3139	0.0381	7.8800e-003	314.6163
Supermarket	2.62665e+006	282.2494	0.0346	7.1500e-003	285.2435
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000

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<b>Total</b>		<b>7,567.487 1</b>	<b>0.9264</b>	<b>0.1917</b>	<b>7,647.761 9</b>
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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	153459	16.4901	2.0200e-003	4.2000e-004	16.6650
Apartments Mid Rise	3.14591e+006	338.0474	0.0414	8.5600e-003	341.6333
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	12741.1	1.3691	1.7000e-004	3.0000e-005	1.3836
Discount Club	752885	80.9020	9.9000e-003	2.0500e-003	81.7602
Elementary School	553458	59.4724	7.2800e-003	1.5100e-003	60.1032
Fast Food Restaurant with Drive Thru	579810	62.3041	7.6300e-003	1.5800e-003	62.9650
Gasoline/Service Station	15778.5	1.6955	2.1000e-004	4.0000e-005	1.7135
Gasoline/Service Station	34186.8	3.6736	4.5000e-004	9.0000e-005	3.7125
General Office Building	3.79159e+006	407.4293	0.0499	0.0103	411.7513
Hardware/Paint Store	125481	13.4837	1.6500e-003	3.4000e-004	13.6267
High School	614953	66.0804	8.0900e-003	1.6700e-003	66.7814
Home Improvement Superstore	627404	67.4183	8.2500e-003	1.7100e-003	68.1335

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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	10385.5	1.1160	1.4000e-004	3.0000e-005	1.1278
Parking Lot	15162.6	1.6293	2.0000e-004	4.0000e-005	1.6466
Parking Lot	17379.4	1.8675	2.3000e-004	5.0000e-005	1.8873
Parking Lot	1740.16	0.1870	2.0000e-005	0.0000	0.1890
Parking Lot	30269.9	3.2527	4.0000e-004	8.0000e-005	3.2872
Parking Lot	38039.6	4.0876	5.0000e-004	1.0000e-004	4.1310
Parking Lot	43260.1	4.6486	5.7000e-004	1.2000e-004	4.6979
Parking Lot	46108.6	4.9547	6.1000e-004	1.3000e-004	5.0072
Parking Lot	51905.4	5.5776	6.8000e-004	1.4000e-004	5.6367
Parking Lot	67589	7.2629	8.9000e-004	1.8000e-004	7.3399
Parking Lot	67976.9	7.3045	8.9000e-004	1.9000e-004	7.3820
Parking Lot	820.201	0.0881	1.0000e-005	0.0000	0.0891
Parking Lot	864.536	0.0929	1.0000e-005	0.0000	0.0939
Parking Lot	8645.36	1.8580	2.3000e-004	5.0000e-005	1.8777
Pharmacy/Drugstore with Drive Thru	125481	13.4837	1.6500e-003	3.4000e-004	13.6267
Single Family Housing	1.07931e+007	1,159.7798	0.1420	0.0294	1,172.0825

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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
Strip Mall	439376	47.2136	5.7800e-003	1.2000e-003	47.7144
Strip Mall	669488	71.9406	8.8100e-003	1.8200e-003	72.7037
Strip Mall	966781	103.8865	0.0127	2.6300e-003	104.9885
Supermarket	935119	100.4842	0.0123	2.5400e-003	101.5501
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,659.0814</b>	<b>0.3255</b>	<b>0.0673</b>	<b>2,687.2885</b>

6.0 Area Detail

6.1 Mitigation Measures Area

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Unmitigated	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.5401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.1895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1015	0.8670	0.3689	5.5300e-003		0.0701	0.0701		0.0701	0.0701	0.0000	1,004.0934	1,004.0934	0.0193	0.0184	1,010.0602
Landscaping	1.7555	0.6753	58.5508	3.1000e-003		0.3257	0.3257		0.3257	0.3257	0.0000	96.0038	96.0038	0.0916	0.0000	98.2947
<b>Total</b>	<b>51.5864</b>	<b>1.5423</b>	<b>58.9197</b>	<b>8.6300e-003</b>		<b>0.3958</b>	<b>0.3958</b>		<b>0.3958</b>	<b>0.3958</b>	<b>0.0000</b>	<b>1,100.0972</b>	<b>1,100.0972</b>	<b>0.1109</b>	<b>0.0184</b>	<b>1,108.3550</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.5401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.1895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1015	0.8670	0.3689	5.5300e-003		0.0701	0.0701		0.0701	0.0701	0.0000	1,004.0934	1,004.0934	0.0193	0.0184	1,010.0602
Landscaping	1.7555	0.6753	58.5508	3.1000e-003		0.3257	0.3257		0.3257	0.3257	0.0000	96.0038	96.0038	0.0916	0.0000	98.2947
<b>Total</b>	<b>51.5864</b>	<b>1.5423</b>	<b>58.9197</b>	<b>8.6300e-003</b>		<b>0.3958</b>	<b>0.3958</b>		<b>0.3958</b>	<b>0.3958</b>	<b>0.0000</b>	<b>1,100.0972</b>	<b>1,100.0972</b>	<b>0.1109</b>	<b>0.0184</b>	<b>1,108.3550</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	731.8224	0.8105	0.4853	896.7150
Unmitigated	731.8224	0.8105	0.4853	896.7150

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	140.081 / 88.312	157.7757	0.1838	0.1105	195.3063
City Park	0 / 93.8887	35.3112	4.3200e-003	8.9000e-004	35.6858
Convenience Market (24 Hour)	0.244439 / 0.149818	0.2737	3.2000e-004	1.9000e-004	0.3392
Discount Club	14.4441 / 8.85286	16.1734	0.0189	0.0114	20.0423
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.8378 / 0.755605	10.8105	0.0152	9.2800e-003	13.9553

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	136.251 / 83.5085	152.5630	0.1787	0.1075	189.0578
Hardware/Paint Store	2.40736 / 1.47548	2.6956	3.1600e-003	1.9000e-003	3.3404
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	12.0368 / 7.37738	13.4779	0.0158	9.4900e-003	16.7019
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.28954 / 1.40327	2.5637	3.0000e-003	1.8100e-003	3.1769
Single Family Housing	230.645 / 145.407	259.7795	0.3027	0.1820	321.5740
Strip Mall	39.8214 / 24.4067	44.5889	0.0522	0.0314	55.2551
Supermarket	8.01243 / 0.247807	7.2180	0.0103	6.2800e-003	9.3455
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>731.8224</b>	<b>0.8105</b>	<b>0.4853</b>	<b>896.7150</b>

**7.2 Water by Land Use**

**Mitigated**



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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	140.081 / 88.312	157.7757	0.1838	0.1105	195.3063
City Park	0 / 93.8887	35.3112	4.3200e-003	8.9000e-004	35.6858
Convenience Market (24 Hour)	0.244439 / 0.149818	0.2737	3.2000e-004	1.9000e-004	0.3392
Discount Club	14.4441 / 8.85286	16.1734	0.0189	0.0114	20.0423
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.8378 / 0.755605	10.8105	0.0152	9.2800e-003	13.9553
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	136.251 / 83.5085	152.5630	0.1787	0.1075	189.0578
Hardware/Paint Store	2.40736 / 1.47548	2.6956	3.1600e-003	1.9000e-003	3.3404
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	12.0368 / 7.37738	13.4779	0.0158	9.4900e-003	16.7019
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.28954 / 1.40327	2.5637	3.0000e-003	1.8100e-003	3.1769
Single Family Housing	230.645 / 145.407	259.7795	0.3027	0.1820	321.5740
Strip Mall	39.8214 / 24.4067	44.5889	0.0522	0.0314	55.2551
Supermarket	8.01243 / 0.247807	7.2180	0.0103	6.2800e-003	9.3455

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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>731.8224</b>	<b>0.8105</b>	<b>0.4853</b>	<b>896.7150</b>

### 8.0 Waste Detail

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#### 8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,082.0255	123.0442	0.0000	5,158.1301
Unmitigated	2,082.0255	123.0442	0.0000	5,158.1301

#### 8.2 Waste by Land Use

Unmitigated

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	989	200.7581	11.8645	0.0000	497.3696
City Park	6.78	1.3763	0.0813	0.0000	3.4097
Convenience Market (24 Hour)	9.92	2.0137	0.1190	0.0000	4.9888
Discount Club	838.64	170.2363	10.0607	0.0000	421.7533
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	449.24	91.1917	5.3893	0.0000	225.9235
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	712.94	144.7204	8.5527	0.0000	358.5386
Hardware/Paint Store	360.4	73.1579	4.3235	0.0000	181.2457
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1801.99	365.7877	21.6174	0.0000	906.2235
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.73	19.8383	1.1724	0.0000	49.1486
Single Family Housing	3402.72	690.7214	40.8205	0.0000	1,711.2331
Strip Mall	564.48	114.5843	6.7717	0.0000	283.8779
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,082.0255</b>	<b>123.0442</b>	<b>0.0000</b>	<b>5,158.1301</b>

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	989	200.7581	11.8645	0.0000	497.3696
City Park	6.78	1.3763	0.0813	0.0000	3.4097
Convenience Market (24 Hour)	9.92	2.0137	0.1190	0.0000	4.9888
Discount Club	838.64	170.2363	10.0607	0.0000	421.7533
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	449.24	91.1917	5.3893	0.0000	225.9235
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	712.94	144.7204	8.5527	0.0000	358.5386
Hardware/Paint Store	360.4	73.1579	4.3235	0.0000	181.2457
High School	325	65.9721	3.8988	0.0000	163.4430

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	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Home Improvement Superstore	1801.99	365.7877	21.6174	0.0000	906.2235
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.73	19.8383	1.1724	0.0000	49.1486
Single Family Housing	3402.72	690.7214	40.8205	0.0000	1,711.2331
Strip Mall	564.48	114.5843	6.7717	0.0000	283.8779
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,082.0255</b>	<b>123.0442</b>	<b>0.0000</b>	<b>5,158.1301</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX K-3**  
**CalEEMod RUN for ENERGY EFFICIENT APPLIANCES**

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Jackson CEQA Alt 2 Default VMT Efficient Res Appliances 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**Jackson CEQA Alt 2 Default VMT Efficient Res Appliances 2035 Op Yr With 2019 T24  
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	766.60	1000sqft	21.36	766,600.00	0
Pharmacy/Drugstore with Drive Thru	32.50	1000sqft	1.20	32,500.00	0
Elementary School	225.00	1000sqft	26.86	225,000.00	0
High School	250.00	1000sqft	56.00	250,000.00	0
Library	0.00	1000sqft	0.00	0.00	0
User Defined Industrial	1.00	User Defined Unit	1.00	70,213.00	0
Parking Lot	468.30	1000sqft	10.75	468,300.00	0
Parking Lot	390.30	1000sqft	8.96	390,300.00	0
Parking Lot	156.80	1000sqft	3.60	156,800.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	78.00	1000sqft	1.79	78,000.00	0
Parking Lot	93.70	1000sqft	2.15	93,700.00	0
Parking Lot	273.10	1000sqft	6.27	273,100.00	0
Parking Lot	7.80	1000sqft	0.18	7,800.00	0
Parking Lot	15.70	1000sqft	0.36	15,700.00	0
Parking Lot	7.40	1000sqft	0.17	7,400.00	0
Parking Lot	416.00	1000sqft	9.55	416,000.00	0
Parking Lot	343.20	1000sqft	7.88	343,200.00	0
Parking Lot	613.30	1000sqft	14.08	613,300.00	0
Parking Lot	0.00	1000sqft	0.00	0.00	0



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Parking Lot	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	609.80	1000sqft	14.00	609,800.00	0
City Park	40.60	Acre	40.60	1,768,536.00	0
City Park	38.20	Acre	38.20	1,663,992.00	0
Fast Food Restaurant with Drive Thru	39.00	1000sqft	1.43	39,000.00	0
Apartments Mid Rise	2,050.00	Dwelling Unit	82.00	2,050,000.00	5474
Apartments Mid Rise	100.00	Dwelling Unit	11.82	178,600.00	267
Single Family Housing	3,540.00	Dwelling Unit	507.10	6,372,000.00	9452
Convenience Market (24 Hour)	3.30	1000sqft	0.12	3,300.00	0
Discount Club	195.00	1000sqft	7.16	195,000.00	0
Gasoline/Service Station	48.00	Pump	0.24	6,500.00	0
Gasoline/Service Station	24.00	Pump	0.11	3,000.00	0
Hardware/Paint Store	32.50	1000sqft	1.20	32,500.00	0
Home Improvement Superstore	162.50	1000sqft	5.97	162,500.00	0
Strip Mall	113.80	1000sqft	4.18	113,800.00	0
Strip Mall	173.40	1000sqft	6.37	173,400.00	0
Strip Mall	250.40	1000sqft	0.00	250,400.00	0
Supermarket	65.00	1000sqft	2.40	65,000.00	0

1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2035
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MWhr)</b>	236.9	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - CO2 Intensity per SMUD for 2030. CH4 and N2O are default for SMUD.

Land Use - Land use and acreages per Applicant. Acreage for Multi-use shopping entered as 0 per User Manual.

Construction Phase - Construction emissions not calculated.

Off-road Equipment - Construction emissions not calculated.

Trips and VMT - Construction emissions not calculated.

Grading - Construction emissions not calculated.

Architectural Coating - Construction emissions not calculated.

Woodstoves - Each DU w nat gas hearth (ambiance only). 40 Sac rain d/yr, 3 hr/d. 1/3 operating each rain day = 1 hr/day.

Energy Use -

Energy Mitigation - Additional mitigation is Title 24 2019 standards versus 2016 standards. Energy efficient appliances in all residences.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	1,194,357.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	3,583,070.00	0.00
tblArchitecturalCoating	ConstArea_Parking	221,292.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	5,805,405.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	17,416,215.00	0.00
tblConstructionPhase	NumDays	900.00	0.00
tblConstructionPhase	NumDays	540.00	0.00
tblConstructionPhase	NumDays	1,395.00	0.00
tblConstructionPhase	NumDays	13,950.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblConstructionPhase	NumDays	990.00	0.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceDayYear	0.00	40.00
tblFireplaces	FireplaceHourDay	0.00	1.00
tblFireplaces	FireplaceHourDay	0.00	1.00

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tblFireplaces	NumberGas	0.00	2,150.00
tblFireplaces	NumberGas	0.00	3,540.00
tblFireplaces	NumberNoFireplace	2,150.00	0.00
tblFireplaces	NumberNoFireplace	3,540.00	0.00
tblLandUse	LandUseSquareFeet	0.00	70,213.00
tblLandUse	LandUseSquareFeet	100,000.00	178,600.00
tblLandUse	LandUseSquareFeet	3,388.20	3,000.00
tblLandUse	LandUseSquareFeet	6,776.39	6,500.00
tblLandUse	LotAcreage	17.60	21.36
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	5.17	26.86
tblLandUse	LotAcreage	5.74	56.00
tblLandUse	LotAcreage	0.00	1.00
tblLandUse	LotAcreage	0.90	1.43
tblLandUse	LotAcreage	2.63	11.82
tblLandUse	LotAcreage	53.95	82.00
tblLandUse	LotAcreage	1,149.35	507.10
tblLandUse	LotAcreage	0.08	0.12
tblLandUse	LotAcreage	4.48	7.16
tblLandUse	LotAcreage	0.08	0.11
tblLandUse	LotAcreage	0.16	0.24
tblLandUse	LotAcreage	0.75	1.20
tblLandUse	LotAcreage	3.73	5.97
tblLandUse	LotAcreage	2.61	4.18
tblLandUse	LotAcreage	3.98	6.37
tblLandUse	LotAcreage	5.75	0.00
tblLandUse	LotAcreage	1.49	2.40

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	590.31	236.9
tblTripsAndVMT	VendorTripNumber	2,167.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	6,636.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	1,327.00	0.00

## 2.0 Emissions Summary

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Energy	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	15,243.7269	15,243.7269	1.0735	0.3324	15,369.6177
Mobile	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184
Waste						0.0000	0.0000		0.0000	0.0000	2,082.0255	0.0000	2,082.0255	123.0442	0.0000	5,158.1301
Water						0.0000	0.0000		0.0000	0.0000	217.1821	514.6403	731.8224	0.8105	0.4853	896.7150
<b>Total</b>	<b>70.1964</b>	<b>101.8548</b>	<b>231.4997</b>	<b>0.7900</b>	<b>82.9779</b>	<b>1.3278</b>	<b>84.3057</b>	<b>22.2169</b>	<b>1.2996</b>	<b>23.5164</b>	<b>2,299.2076</b>	<b>85,325.2663</b>	<b>87,624.4739</b>	<b>127.8077</b>	<b>0.8361</b>	<b>91,068.8361</b>

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**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	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Energy	0.6800	5.8929	3.0740	0.0371		0.4698	0.4698		0.4698	0.4698	0.0000	9,477.8269	9,477.8269	0.4654	0.1930	9,546.9701
Mobile	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184
Waste						0.0000	0.0000		0.0000	0.0000	2,082.0255	0.0000	2,082.0255	123.0442	0.0000	5,158.1301
Water						0.0000	0.0000		0.0000	0.0000	217.1821	514.6403	731.8224	0.8105	0.4853	896.7150
<b>Total</b>	<b>70.1007</b>	<b>101.0270</b>	<b>231.0751</b>	<b>0.7848</b>	<b>82.9779</b>	<b>1.2618</b>	<b>84.2396</b>	<b>22.2169</b>	<b>1.2335</b>	<b>23.4504</b>	<b>2,299.2076</b>	<b>79,559.3664</b>	<b>81,858.5740</b>	<b>127.1996</b>	<b>0.6967</b>	<b>85,246.1886</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.14</b>	<b>0.81</b>	<b>0.18</b>	<b>0.66</b>	<b>0.00</b>	<b>4.98</b>	<b>0.08</b>	<b>0.00</b>	<b>5.08</b>	<b>0.28</b>	<b>0.00</b>	<b>6.76</b>	<b>6.58</b>	<b>0.48</b>	<b>16.67</b>	<b>6.39</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

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

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

**Acres of Paving: 84.67**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Jackson CEQA Alt 2 Default VMT Efficient Res Appliances 2035 Op Yr With 2019 T24 - Sacramento County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
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



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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184
Unmitigated	17.8343	93.5918	169.0814	0.7390	82.9779	0.3962	83.3740	22.2169	0.3679	22.5848	0.0000	68,466.8019	68,466.8019	2.7687	0.0000	68,536.0184

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4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	13,632.50	13,099.50	12013.00	34,193,402	34,193,402
Apartments Mid Rise	665.00	639.00	586.00	1,667,971	1,667,971
City Park	76.73	923.65	679.64	523,693	523,693
City Park	72.20	869.05	639.47	492,736	492,736
Convenience Market (24 Hour)	2,435.37	2,848.23	2502.89	1,403,707	1,403,707
Discount Club	8,151.00	10,481.25	6565.65	10,162,268	10,162,268
Elementary School	3,471.75	0.00	0.00	5,214,694	5,214,694
Fast Food Restaurant with Drive Thru	19,348.68	28,159.17	21166.08	14,414,777	14,414,777
Gasoline/Service Station	8,090.88	8,090.88	8090.88	3,464,556	3,464,556
Gasoline/Service Station	4,045.44	4,045.44	4045.44	1,732,278	1,732,278
General Office Building	8,455.60	1,885.84	804.93	13,266,451	13,266,451
Hardware/Paint Store	1,666.93	2,681.90	2231.13	2,164,945	2,164,945
High School	3,222.50	1,092.50	447.50	6,568,328	6,568,328
Home Improvement Superstore	4,995.25	9,217.00	9067.50	5,480,713	5,480,713
Library	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Pharmacy/Drugstore with Drive Thru	3,149.58	3,149.58	3149.58	2,732,839	2,732,839
Single Family Housing	33,700.80	35,081.40	30514.80	85,818,090	85,818,090



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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
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Parking Lot	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0
Pharmacy/Drugstore with Drive	10.00	5.00	6.50	7.50	73.50	19.00	38	13	49
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Strip Mall	10.00	5.00	6.50	16.60	64.40	19.00	45	40	15
Supermarket	10.00	5.00	6.50	6.50	74.50	19.00	34	30	36
User Defined Industrial	10.00	5.00	6.50	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
City Park	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Convenience Market (24 Hour)	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Discount Club	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Elementary School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Fast Food Restaurant with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Gasoline/Service Station	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
General Office Building	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Hardware/Paint Store	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
High School	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Home Improvement Superstore	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Library	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Parking Lot	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Pharmacy/Drugstore with Drive Thru	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Single Family Housing	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Strip Mall	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
Supermarket	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566
User Defined Industrial	0.578893	0.033999	0.212840	0.104491	0.010628	0.004325	0.018736	0.026318	0.001852	0.001362	0.005392	0.000598	0.000566

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

Install Energy Efficient Appliances

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,748.1787	2,748.1787	0.3364	0.0696	2,777.3310
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7,567.4871	7,567.4871	0.9264	0.1917	7,647.7619
NaturalGas Mitigated	0.6800	5.8929	3.0740	0.0371		0.4698	0.4698		0.4698	0.4698	0.0000	6,729.6482	6,729.6482	0.1290	0.1234	6,769.6392
NaturalGas Unmitigated	0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	7,676.2398	7,676.2398	0.1471	0.1407	7,721.8558

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 Mid Rise	1.99836e+007	0.1078	0.9208	0.3918	5.8800e-003		0.0745	0.0745		0.0745	0.0745	0.0000	1,066.4013	1,066.4013	0.0204	0.0196	1,072.7384
Apartments Mid Rise	974810	5.2600e-003	0.0449	0.0191	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	52.0196	52.0196	1.0000e-003	9.5000e-004	52.3287
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	17886	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9545	0.9545	2.0000e-005	2.0000e-005	0.9601
Discount Club	1.0569e+006	5.7000e-003	0.0518	0.0435	3.1000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	56.4002	56.4002	1.0800e-003	1.0300e-003	56.7354



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Total		0.7757	6.7207	3.4985	0.0423		0.5359	0.5359		0.5359	0.5359	0.0000	7,676.2398	7,676.2398	0.1471	0.1407	7,721.8558
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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	871718	4.7000e-003	0.0402	0.0171	2.6000e-004		3.2500e-003	3.2500e-003		3.2500e-003	3.2500e-003	0.0000	46.5182	46.5182	8.9000e-004	8.5000e-004	46.7946
Apartments Mid Rise	1.78702e+007	0.0964	0.8234	0.3504	5.2600e-003		0.0666	0.0666		0.0666	0.0666	0.0000	953.6229	953.6229	0.0183	0.0175	959.2898
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	15722.7	8.0000e-005	7.7000e-004	6.5000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8390	0.8390	2.0000e-005	2.0000e-005	0.8440
Discount Club	929070	5.0100e-003	0.0455	0.0383	2.7000e-004		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	49.5787	49.5787	9.5000e-004	9.1000e-004	49.8733
Elementary School	2.95389e+006	0.0159	0.1448	0.1216	8.7000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	157.6308	157.6308	3.0200e-003	2.8900e-003	158.5675
Fast Food Restaurant with Drive Thru	6.5906e+006	0.0355	0.3231	0.2714	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	351.6993	351.6993	6.7400e-003	6.4500e-003	353.7893
Gasoline/Service Station	210568	1.1400e-003	0.0103	8.6700e-003	6.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	11.2367	11.2367	2.2000e-004	2.1000e-004	11.3035
Gasoline/Service Station	97185.2	5.2000e-004	4.7600e-003	4.0000e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.1862	5.1862	1.0000e-004	1.0000e-004	5.2170
General Office Building	8.65237e+006	0.0467	0.4241	0.3563	2.5400e-003		0.0322	0.0322		0.0322	0.0322	0.0000	461.7234	461.7234	8.8500e-003	8.4600e-003	464.4672
Hardware/Paint Store	154845	8.3000e-004	7.5900e-003	6.3800e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2631	8.2631	1.6000e-004	1.5000e-004	8.3122
High School	3.2821e+006	0.0177	0.1609	0.1352	9.7000e-004		0.0122	0.0122		0.0122	0.0122	0.0000	175.1454	175.1454	3.3600e-003	3.2100e-003	176.1862
Home Improvement Superstore	774225	4.1700e-003	0.0380	0.0319	2.3000e-004		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	41.3156	41.3156	7.9000e-004	7.6000e-004	41.5611



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	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Library	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	154845	8.3000e-004	7.5900e-003	6.3800e-003	5.0000e-005		5.8000e-004	5.8000e-004		5.8000e-004	5.8000e-004	0.0000	8.2631	8.2631	1.6000e-004	1.5000e-004	8.3122	
Single Family Housing	7.94912e+007	0.4286	3.6628	1.5587	0.0234		0.2961	0.2961		0.2961	0.2961	0.0000	4,241.9505	4,241.9505	0.0813	0.0778	4,267.1583	
Strip Mall	1.19302e+006	6.4300e-003	0.0585	0.0491	3.5000e-004		4.4400e-003	4.4400e-003		4.4400e-003	4.4400e-003	0.0000	63.6641	63.6641	1.2200e-003	1.1700e-003	64.0425	
Strip Mall	542196	2.9200e-003	0.0266	0.0223	1.6000e-004		2.0200e-003	2.0200e-003		2.0200e-003	2.0200e-003	0.0000	28.9336	28.9336	5.5000e-004	5.3000e-004	29.1056	
Strip Mall	826157	4.4500e-003	0.0405	0.0340	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	44.0869	44.0869	8.4000e-004	8.1000e-004	44.3489	
Supermarket	1.49897e+006	8.0800e-003	0.0735	0.0617	4.4000e-004		5.5800e-003	5.5800e-003		5.5800e-003	5.5800e-003	0.0000	79.9908	79.9908	1.5300e-003	1.4700e-003	80.4661	
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
<b>Total</b>		<b>0.6800</b>	<b>5.8929</b>	<b>3.0740</b>	<b>0.0371</b>		<b>0.4698</b>	<b>0.4698</b>		<b>0.4698</b>	<b>0.4698</b>	<b>0.0000</b>	<b>6,729.6482</b>	<b>6,729.6482</b>	<b>0.1290</b>	<b>0.1234</b>	<b>6,769.6392</b>	

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	425646	45.7382	5.6000e-003	1.1600e-003	46.2234
Apartments Mid Rise	8.72574e+006	937.6337	0.1148	0.0238	947.5800

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Land Use	Electricity Use kWh/yr	Total CO2	CH4	N2O	CO2e
		MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	38181	4.1028	5.0000e-004	1.0000e-004	4.1463
Discount Club	2.25615e+006	242.4369	0.0297	6.1400e-003	245.0087
Elementary School	1.647e+006	176.9801	0.0217	4.4800e-003	178.8575
Fast Food Restaurant with Drive Thru	1.62669e+006	174.7977	0.0214	4.4300e-003	176.6519
Gasoline/Service Station	45540	4.8936	6.0000e-004	1.2000e-004	4.9455
Gasoline/Service Station	98670	10.6027	1.3000e-003	2.7000e-004	10.7152
General Office Building	1.10697e+007	1,189.5065	0.1456	0.0301	1,202.1246
Hardware/Paint Store	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
High School	1.83e+006	196.6445	0.0241	4.9800e-003	198.7305
Home Improvement Superstore	1.88013e+006	202.0308	0.0247	5.1200e-003	204.1739
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	120120	12.9076	1.5800e-003	3.3000e-004	13.0445
Parking Lot	136605	14.6790	1.8000e-003	3.7000e-004	14.8347
Parking Lot	145600	15.6456	1.9200e-003	4.0000e-004	15.8116
Parking Lot	163905	17.6126	2.1600e-003	4.5000e-004	17.7994

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	213430	22.9343	2.8100e-003	5.8000e-004	23.1776
Parking Lot	214655	23.0660	2.8200e-003	5.8000e-004	23.3107
Parking Lot	2590	0.2783	3.0000e-005	1.0000e-005	0.2813
Parking Lot	2730	0.2934	4.0000e-005	1.0000e-005	0.2965
Parking Lot	27300	5.8671	7.2000e-004	1.5000e-004	5.9293
Parking Lot	32795	3.5240	4.3000e-004	9.0000e-005	3.5614
Parking Lot	47880	5.1450	6.3000e-004	1.3000e-004	5.1996
Parking Lot	54880	5.8972	7.2000e-004	1.5000e-004	5.9597
Parking Lot	5495	0.5905	7.0000e-005	1.0000e-005	0.5967
Parking Lot	95585	10.2712	1.2600e-003	2.6000e-004	10.3801
Pharmacy/Drugstore with Drive Thru	376025	40.4062	4.9500e-003	1.0200e-003	40.8348
Single Family Housing	2.9891e+007	3,211.9663	0.3932	0.0814	3,246.0383
Strip Mall	1.31667e+006	141.4837	0.0173	3.5800e-003	142.9845
Strip Mall	2.00624e+006	215.5824	0.0264	5.4600e-003	217.8692
Strip Mall	2.89713e+006	311.3139	0.0381	7.8800e-003	314.6163
Supermarket	2.62665e+006	282.2494	0.0346	7.1500e-003	285.2435
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000

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<b>Total</b>		<b>7,567.487 1</b>	<b>0.9264</b>	<b>0.1917</b>	<b>7,647.761 9</b>
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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	153929	16.5406	2.0200e-003	4.2000e-004	16.7161
Apartments Mid Rise	3.15555e+006	339.0832	0.0415	8.5900e-003	342.6801
City Park	0	0.0000	0.0000	0.0000	0.0000
Convenience Market (24 Hour)	13802.1	1.4831	1.8000e-004	4.0000e-005	1.4989
Discount Club	815578	87.6388	0.0107	2.2200e-003	88.5685
Elementary School	595531	63.9934	7.8300e-003	1.6200e-003	64.6722
Fast Food Restaurant with Drive Thru	594372	63.8688	7.8200e-003	1.6200e-003	64.5463
Gasoline/Service Station	16605.5	1.7844	2.2000e-004	5.0000e-005	1.8033
Gasoline/Service Station	35978.6	3.8661	4.7000e-004	1.0000e-004	3.9071
General Office Building	3.96315e+006	425.8640	0.0521	0.0108	430.3815
Hardware/Paint Store	135930	14.6065	1.7900e-003	3.7000e-004	14.7614
High School	661701	71.1038	8.7000e-003	1.8000e-003	71.8580
Home Improvement Superstore	679649	73.0323	8.9400e-003	1.8500e-003	73.8071

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1029.21	0.1106	1.0000e-005	0.0000	0.1118
Parking Lot	10292.1	2.2119	2.7000e-004	6.0000e-005	2.2354
Parking Lot	12363.7	1.3286	1.6000e-004	3.0000e-005	1.3427
Parking Lot	18050.8	1.9397	2.4000e-004	5.0000e-005	1.9602
Parking Lot	20689.8	2.2232	2.7000e-004	6.0000e-005	2.2468
Parking Lot	2071.61	0.2226	3.0000e-005	1.0000e-005	0.2250
Parking Lot	36035.5	3.8722	4.7000e-004	1.0000e-004	3.9133
Parking Lot	45285.2	4.8662	6.0000e-004	1.2000e-004	4.9178
Parking Lot	51500.1	5.5340	6.8000e-004	1.4000e-004	5.5927
Parking Lot	54891.2	5.8984	7.2000e-004	1.5000e-004	5.9610
Parking Lot	61792.2	6.6399	8.1000e-004	1.7000e-004	6.7104
Parking Lot	80463.1	8.6463	1.0600e-003	2.2000e-004	8.7380
Parking Lot	80924.9	8.6959	1.0600e-003	2.2000e-004	8.7881
Parking Lot	976.43	0.1049	1.0000e-005	0.0000	0.1060
Pharmacy/Drugstore with Drive Thru	135930	14.6065	1.7900e-003	3.7000e-004	14.7614
Single Family Housing	1.09122e+007	1,172.5867	0.1435	0.0297	1,185.0253

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	1.04729e+006	112.5372	0.0138	2.8500e-003	113.7310
Strip Mall	475963	51.1451	6.2600e-003	1.3000e-003	51.6877
Strip Mall	725237	77.9311	9.5400e-003	1.9700e-003	78.7578
Supermarket	969818	104.2128	0.0128	2.6400e-003	105.3183
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,748.1787</b>	<b>0.3364</b>	<b>0.0696</b>	<b>2,777.3310</b>

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550
Unmitigated	51.5864	1.5423	58.9197	8.6400e-003		0.3958	0.3958		0.3958	0.3958	0.0000	1,100.0972	1,100.0972	0.1109	0.0184	1,108.3550

Jackson CEQA Alt 2 Default VMT Efficient Res Appliances 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**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	6.5401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.1895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1015	0.8670	0.3689	5.5300e-003		0.0701	0.0701		0.0701	0.0701	0.0000	1,004.0934	1,004.0934	0.0193	0.0184	1,010.0602
Landscaping	1.7555	0.6753	58.5508	3.1000e-003		0.3257	0.3257		0.3257	0.3257	0.0000	96.0038	96.0038	0.0916	0.0000	98.2947
<b>Total</b>	<b>51.5864</b>	<b>1.5423</b>	<b>58.9197</b>	<b>8.6300e-003</b>		<b>0.3958</b>	<b>0.3958</b>		<b>0.3958</b>	<b>0.3958</b>	<b>0.0000</b>	<b>1,100.0972</b>	<b>1,100.0972</b>	<b>0.1109</b>	<b>0.0184</b>	<b>1,108.3550</b>

Jackson CEQA Alt 2 Default VMT Efficient Res Appliances 2035 Op Yr With 2019 T24 - Sacramento County, 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	6.5401					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	43.1895					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1015	0.8670	0.3689	5.5300e-003		0.0701	0.0701		0.0701	0.0701	0.0000	1,004.0934	1,004.0934	0.0193	0.0184	1,010.0602
Landscaping	1.7555	0.6753	58.5508	3.1000e-003		0.3257	0.3257		0.3257	0.3257	0.0000	96.0038	96.0038	0.0916	0.0000	98.2947
<b>Total</b>	<b>51.5864</b>	<b>1.5423</b>	<b>58.9197</b>	<b>8.6300e-003</b>		<b>0.3958</b>	<b>0.3958</b>		<b>0.3958</b>	<b>0.3958</b>	<b>0.0000</b>	<b>1,100.0972</b>	<b>1,100.0972</b>	<b>0.1109</b>	<b>0.0184</b>	<b>1,108.3550</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**



Jackson CEQA Alt 2 Default VMT Efficient Res Appliances 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	731.8224	0.8105	0.4853	896.7150
Unmitigated	731.8224	0.8105	0.4853	896.7150

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	140.081 / 88.312	157.7757	0.1838	0.1105	195.3063
City Park	0 / 93.8887	35.3112	4.3200e-003	8.9000e-004	35.6858
Convenience Market (24 Hour)	0.244439 / 0.149818	0.2737	3.2000e-004	1.9000e-004	0.3392
Discount Club	14.4441 / 8.85286	16.1734	0.0189	0.0114	20.0423
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.8378 / 0.755605	10.8105	0.0152	9.2800e-003	13.9553

## Jackson CEQA Alt 2 Default VMT Efficient Res Appliances 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	136.251 / 83.5085	152.5630	0.1787	0.1075	189.0578
Hardware/Paint Store	2.40736 / 1.47548	2.6956	3.1600e-003	1.9000e-003	3.3404
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	12.0368 / 7.37738	13.4779	0.0158	9.4900e-003	16.7019
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.28954 / 1.40327	2.5637	3.0000e-003	1.8100e-003	3.1769
Single Family Housing	230.645 / 145.407	259.7795	0.3027	0.1820	321.5740
Strip Mall	39.8214 / 24.4067	44.5889	0.0522	0.0314	55.2551
Supermarket	8.01243 / 0.247807	7.2180	0.0103	6.2800e-003	9.3455
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>731.8224</b>	<b>0.8105</b>	<b>0.4853</b>	<b>896.7150</b>

**7.2 Water by Land Use****Mitigated**

Jackson CEQA Alt 2 Default VMT Efficient Res Appliances 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	140.081 / 88.312	157.7757	0.1838	0.1105	195.3063
City Park	0 / 93.8887	35.3112	4.3200e-003	8.9000e-004	35.6858
Convenience Market (24 Hour)	0.244439 / 0.149818	0.2737	3.2000e-004	1.9000e-004	0.3392
Discount Club	14.4441 / 8.85286	16.1734	0.0189	0.0114	20.0423
Elementary School	6.52431 / 16.7768	12.1112	9.1400e-003	5.2700e-003	13.9097
Fast Food Restaurant with Drive Thru	11.8378 / 0.755605	10.8105	0.0152	9.2800e-003	13.9553
Gasoline/Service Station	0.956296 / 0.586117	1.0708	1.2500e-003	7.5000e-004	1.3269
General Office Building	136.251 / 83.5085	152.5630	0.1787	0.1075	189.0578
Hardware/Paint Store	2.40736 / 1.47548	2.6956	3.1600e-003	1.9000e-003	3.3404
High School	8.30116 / 21.3458	15.4096	0.0116	6.7000e-003	17.6979
Home Improvement Superstore	12.0368 / 7.37738	13.4779	0.0158	9.4900e-003	16.7019
Library	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	2.28954 / 1.40327	2.5637	3.0000e-003	1.8100e-003	3.1769
Single Family Housing	230.645 / 145.407	259.7795	0.3027	0.1820	321.5740
Strip Mall	39.8214 / 24.4067	44.5889	0.0522	0.0314	55.2551
Supermarket	8.01243 / 0.247807	7.2180	0.0103	6.2800e-003	9.3455

Jackson CEQA Alt 2 Default VMT Efficient Res Appliances 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>731.8224</b>	<b>0.8105</b>	<b>0.4853</b>	<b>896.7150</b>

### 8.0 Waste Detail

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#### 8.1 Mitigation Measures Waste

##### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,082.0255	123.0442	0.0000	5,158.1301
Unmitigated	2,082.0255	123.0442	0.0000	5,158.1301

#### 8.2 Waste by Land Use

##### Unmitigated

Jackson CEQA Alt 2 Default VMT Efficient Res Appliances 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	989	200.7581	11.8645	0.0000	497.3696
City Park	6.78	1.3763	0.0813	0.0000	3.4097
Convenience Market (24 Hour)	9.92	2.0137	0.1190	0.0000	4.9888
Discount Club	838.64	170.2363	10.0607	0.0000	421.7533
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	449.24	91.1917	5.3893	0.0000	225.9235
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	712.94	144.7204	8.5527	0.0000	358.5386
Hardware/Paint Store	360.4	73.1579	4.3235	0.0000	181.2457
High School	325	65.9721	3.8988	0.0000	163.4430
Home Improvement Superstore	1801.99	365.7877	21.6174	0.0000	906.2235
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.73	19.8383	1.1724	0.0000	49.1486
Single Family Housing	3402.72	690.7214	40.8205	0.0000	1,711.2331
Strip Mall	564.48	114.5843	6.7717	0.0000	283.8779
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637

Jackson CEQA Alt 2 Default VMT Efficient Res Appliances 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,082.0255</b>	<b>123.0442</b>	<b>0.0000</b>	<b>5,158.1301</b>

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	989	200.7581	11.8645	0.0000	497.3696
City Park	6.78	1.3763	0.0813	0.0000	3.4097
Convenience Market (24 Hour)	9.92	2.0137	0.1190	0.0000	4.9888
Discount Club	838.64	170.2363	10.0607	0.0000	421.7533
Elementary School	292.5	59.3749	3.5090	0.0000	147.0987
Fast Food Restaurant with Drive Thru	449.24	91.1917	5.3893	0.0000	225.9235
Gasoline/Service Station	38.8	7.8761	0.4655	0.0000	19.5126
General Office Building	712.94	144.7204	8.5527	0.0000	358.5386
Hardware/Paint Store	360.4	73.1579	4.3235	0.0000	181.2457
High School	325	65.9721	3.8988	0.0000	163.4430

Jackson CEQA Alt 2 Default VMT Efficient Res Appliances 2035 Op Yr With 2019 T24 - Sacramento County, Annual

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Home Improvement Superstore	1801.99	365.7877	21.6174	0.0000	906.2235
Library	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Pharmacy/Drugstore with Drive Thru	97.73	19.8383	1.1724	0.0000	49.1486
Single Family Housing	3402.72	690.7214	40.8205	0.0000	1,711.2331
Strip Mall	564.48	114.5843	6.7717	0.0000	283.8779
Supermarket	366.6	74.4165	4.3979	0.0000	184.3637
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2,082.0255</b>	<b>123.0442</b>	<b>0.0000</b>	<b>5,158.1301</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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Jackson CEQA Alt 2 Default VMT Efficient Res Appliances 2035 Op Yr With 2019 T24 - Sacramento County, Annual

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX K-4**  
**RESERVED**

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**APPENDIX K-5**  
**CALCULATION for NUMBER of ELECTRIC VEHICLE CHARGING STATIONS**

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**CEQA Alternative 2 Electric Charging Connections at Parking Spaces**

Land Use Index	Land Use	Alternative 2 Building Square Footage/Gasoline Pump Stations/DU	ITE Parking Spaces per Unit of Measure	Calculated Number of Parking Spaces	Percent of Parking Spaces with Charging Connection	Number of Parking Spaces with Charging Connection
4	General Commercial -- Discount Club	195,000	5.2 spaces per 1,000 square feet per ITE.	1014.0	10%	101.4
	General Commercial -- Home Improvement Store	162,500	5.0 spaces per 1,000 square feet per ITE.	812.5	10%	81.3
	General Commercial -- Grocery Store	65,000	5.8 spaces per 1,000 square feet per ITE.	377.0	10%	37.7
	General Commercial -- Pharmacy	32,500	5.4 spaces per 1,000 square feet per ITE.	175.5	10%	17.6
	General Commercial -- Hardware Store	32,500	6.7 spaces per 1,000 square feet per ITE.	217.8	10%	21.8
	General Commercial -- Restaurants	39,000	15.2 spaces per 1,000 square feet per ITE.	592.8	10%	59.3
	General Commercial -- Strip Mall	113,800	4.9 spaces per 1,000 square feet per ITE for Community Shopping Center (100,000 to 400,000 sf) on Page 227.	557.6	10%	55.8
	General Commercial -- Convenience Store	3,300	5.7 spaces per 1,000 square feet per ITE.	18.8	0%	0.0
	General Commercial -- Gasoline Stations	48	1.2 spaces per fueling station per ITE.	57.6	0%	0.0
5	Community Commercial -- Gasoline Station	24	1.2 spaces per fueling station per ITE.	28.8	0%	0.0
	Community Commercial -- Strip Mall	173,400	4.9 spaces per 1,000 square feet per ITE for Community Mall (100,000 to 400,000 sf) on Page 227.	849.7	10%	85.0
6	Mixed Use -- Retail	250,500	4.9 spaces per 1,000 square feet per ITE for Community Shopping Center (100,000 to 400,000 sf) on Page 227.	1227.5	10%	122.7
	Mixed Use -- Housing	100	1.4 spaces per dwelling unit per ITE.	140.0	0%	0.0
7	Office	766,700	4.0 spaces per 1,000 square feet per ITE.	3066.8	10%	306.7
9	High School	250,000	0.5 spaces per student per ITE. 160 Gross Floor Area per student per ITE.	781.3	5%	39.1
10	Elem Schools/Middle Schools	225,000	0.2 vehicles per student per ITE. Assumed 80 Gross Floor Area per student, 50% of the ITE High School ratio.	562.5	5%	28.1
<b>Total Number of Connections</b>						<b>956.3</b>
<b>Total Number of Charging Stations = 1/2 Connections</b>						<b>478.1</b>
<b>Use Rounded Value for Number of Charging Stations</b>						<b>480</b>

**APPENDIX K-6**  
**EMFAC2017 EMISSION FACTORS FOR GASOLINE FUELED VEHICLES IN 2035**

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EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SACRAMENTO

Calendar Year: 2035

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	ROG_RUNEX	NOx_RUNEX	CO2_RUNEX	TOTAL VMT
SACRAMENTO	2035	LDA	Aggregated	5	GAS	1035.03359	0.01746131	0.03469664	486.9234642	
SACRAMENTO	2035	LDT1	Aggregated	5	GAS	100.220835	0.0256563	0.04393858	571.0235582	
SACRAMENTO	2035	LDT2	Aggregated	5	GAS	323.90682	0.02779797	0.04369002	571.9909045	
SACRAMENTO	2035	LHD1	Aggregated	5	GAS	12380.0324	0.04736592	0.13521028	1628.098485	
SACRAMENTO	2035	LHD2	Aggregated	5	GAS	1870.97229	0.03075371	0.10719153	1859.698103	
SACRAMENTO	2035	MCY	Aggregated	5	GAS	8.76253212	12.6479965	1.65311036	538.9321007	
SACRAMENTO	2035	MDV	Aggregated	5	GAS	197.858652	0.0344839	0.05378613	698.5105725	
SACRAMENTO	2035	MH	Aggregated	5	GAS	178.403106	0.07829506	0.23920554	3333.693146	
SACRAMENTO	2035	OBUS	Aggregated	5	GAS	150.989131	0.15728049	0.37618418	3331.677115	
SACRAMENTO	2035	SBUS	Aggregated	5	GAS	105.923228	0.05651395	0.216487	1630.785717	
SACRAMENTO	2035	T6TS	Aggregated	5	GAS	703.770211	0.0836043	0.20907962	3289.709536	
SACRAMENTO	2035	T7IS	Aggregated	5	GAS	2.53043872	2.04538849	5.55476389	3768.361989	
SACRAMENTO	2035	UBUS	Aggregated	5	GAS	366.23605	0.07349862	0.34525617	3087.270017	
SACRAMENTO	2035	LDA	Aggregated	10	GAS	78897.1583	0.01111513	0.02996644	398.002709	
SACRAMENTO	2035	LDT1	Aggregated	10	GAS	7639.49996	0.01646392	0.03774052	466.2644811	
SACRAMENTO	2035	LDT2	Aggregated	10	GAS	24690.3366	0.01776811	0.03754013	466.8352736	
SACRAMENTO	2035	LHD1	Aggregated	10	GAS	32281.9358	0.02980999	0.11731552	1321.684121	
SACRAMENTO	2035	LHD2	Aggregated	10	GAS	4878.71157	0.01935501	0.09297342	1509.683812	
SACRAMENTO	2035	MCY	Aggregated	10	GAS	667.938598	8.18263143	1.4760707	426.473881	
SACRAMENTO	2035	MDV	Aggregated	10	GAS	15082.1051	0.02210022	0.04600408	569.589344	
SACRAMENTO	2035	MH	Aggregated	10	GAS	896.833985	0.04923764	0.20803134	2706.231	
SACRAMENTO	2035	OBUS	Aggregated	10	GAS	759.023692	0.09890943	0.32715839	2704.629768	
SACRAMENTO	2035	SBUS	Aggregated	10	GAS	371.255486	0.03564165	0.1873052	1323.846798	
SACRAMENTO	2035	T6TS	Aggregated	10	GAS	3537.85905	0.05257648	0.18183154	2670.535472	
SACRAMENTO	2035	T7IS	Aggregated	10	GAS	12.36756	1.29070825	4.79448912	3066.028055	
SACRAMENTO	2035	UBUS	Aggregated	10	GAS	1212.0446	0.04627516	0.30020214	2507.177553	
SACRAMENTO	2035	LDA	Aggregated	15	GAS	250175.652	0.0073787	0.02639336	325.3274311	
SACRAMENTO	2035	LDT1	Aggregated	15	GAS	24224.1537	0.01101616	0.03310939	381.1590686	
SACRAMENTO	2035	LDT2	Aggregated	15	GAS	78290.7927	0.01184396	0.03294203	381.6577428	
SACRAMENTO	2035	LHD1	Aggregated	15	GAS	73510.3207	0.01982385	0.103352	1080.890128	
SACRAMENTO	2035	LHD2	Aggregated	15	GAS	11109.4841	0.01287122	0.08191742	1234.621266	
SACRAMENTO	2035	MCY	Aggregated	15	GAS	2117.97203	5.59019575	1.34935954	343.902468	
SACRAMENTO	2035	MDV	Aggregated	15	GAS	47823.9719	0.01476913	0.0402302	465.6876886	
SACRAMENTO	2035	MH	Aggregated	15	GAS	1132.8551	0.03281386	0.18234474	2213.143691	
SACRAMENTO	2035	OBUS	Aggregated	15	GAS	958.777066	0.06591705	0.28676261	2211.89113	
SACRAMENTO	2035	SBUS	Aggregated	15	GAS	742.510972	0.02365808	0.16538038	1082.64255	
SACRAMENTO	2035	T6TS	Aggregated	15	GAS	4468.92259	0.03503899	0.15937995	2183.962766	
SACRAMENTO	2035	T7IS	Aggregated	15	GAS	13.4870189	0.85780833	4.22610438	2513.916826	
SACRAMENTO	2035	UBUS	Aggregated	15	GAS	2069.03986	0.03068929	0.2644173	2048.639521	
SACRAMENTO	2035	LDA	Aggregated	20	GAS	938097.568	0.00515158	0.02368824	269.7816167	
SACRAMENTO	2035	LDT1	Aggregated	20	GAS	90834.6572	0.00774625	0.02963306	316.2002118	
SACRAMENTO	2035	LDT2	Aggregated	20	GAS	293571.343	0.00830021	0.02948867	316.6848581	
SACRAMENTO	2035	LHD1	Aggregated	20	GAS	84940.6048	0.0138503	0.09306376	898.490711	
SACRAMENTO	2035	LHD2	Aggregated	20	GAS	12836.9226	0.00899271	0.07377264	1026.264388	
SACRAMENTO	2035	MCY	Aggregated	20	GAS	7941.8776	4.02987164	1.25787125	283.8786459	
SACRAMENTO	2035	MDV	Aggregated	20	GAS	179328.209	0.01037371	0.03592269	386.523281	
SACRAMENTO	2035	MH	Aggregated	20	GAS	1175.04895	0.02298066	0.16360295	1839.640006	
SACRAMENTO	2035	OBUS	Aggregated	20	GAS	994.487281	0.04616394	0.25728853	1838.650111	
SACRAMENTO	2035	SBUS	Aggregated	20	GAS	1007.83788	0.01657079	0.14830841	899.9374107	
SACRAMENTO	2035	T6TS	Aggregated	20	GAS	4635.37024	0.02453899	0.14299854	1815.392764	
SACRAMENTO	2035	T7IS	Aggregated	20	GAS	23.0490847	0.59872636	3.8171445	2094.856111	
SACRAMENTO	2035	UBUS	Aggregated	20	GAS	17997.6983	0.02158546	0.23892414	1708.258748	
SACRAMENTO	2035	LDA	Aggregated	25	GAS	3029820.65	0.00379877	0.02162128	230.2404883	

SACRAMENT	2035 LDT1	Aggregated	25 GAS	293373.237	0.00574592	0.02699682	269.9226314
SACRAMENT	2035 LDT2	Aggregated	25 GAS	948162.054	0.00613965	0.02686859	270.3776896
SACRAMENT	2035 LHD1	Aggregated	25 GAS	65430.4525	0.01016476	0.085856	767.9922383
SACRAMENT	2035 LHD2	Aggregated	25 GAS	9888.38797	0.00659977	0.06811445	877.1979686
SACRAMENT	2035 MCY	Aggregated	25 GAS	25650.2794	3.0615303	1.19129103	241.729865
SACRAMENT	2035 MDV	Aggregated	25 GAS	579185.29	0.00768785	0.03267582	330.0664059
SACRAMENT	2035 MH	Aggregated	25 GAS	1309.27621	0.01698607	0.14903372	1572.426346
SACRAMENT	2035 OBUS	Aggregated	25 GAS	1108.08876	0.03412192	0.23437638	1571.617092
SACRAMENT	2035 SBUS	Aggregated	25 GAS	1590.93982	0.01223661	0.13530685	769.2241965
SACRAMENT	2035 T6TS	Aggregated	25 GAS	5164.87418	0.01813791	0.13026418	1551.707385
SACRAMENT	2035 T7IS	Aggregated	25 GAS	30.0805259	0.44327631	3.46448528	1794.442276
SACRAMENT	2035 UBUS	Aggregated	25 GAS	232.283313	0.01533989	0.20302631	1418.593323
SACRAMENT	2035 LDA	Aggregated	30 GAS	2116035.66	0.00296391	0.02004341	204.3887892
SACRAMENT	2035 LDT1	Aggregated	30 GAS	204892.732	0.00450258	0.02499968	239.6010403
SACRAMENT	2035 LDT2	Aggregated	30 GAS	662199.168	0.00480123	0.02488268	240.0022235
SACRAMENT	2035 LHD1	Aggregated	30 GAS	57861.9936	0.00792313	0.07945572	681.4679302
SACRAMENT	2035 LHD2	Aggregated	30 GAS	8744.58023	0.00514432	0.06302232	778.3654403
SACRAMENT	2035 MCY	Aggregated	30 GAS	17914.2306	2.44868141	1.14324913	213.7751258
SACRAMENT	2035 MDV	Aggregated	30 GAS	404504.71	0.00602027	0.03023217	292.9675044
SACRAMENT	2035 MH	Aggregated	30 GAS	1480.32325	0.01321067	0.13850409	1395.258345
SACRAMENT	2035 OBUS	Aggregated	30 GAS	1252.85219	0.02653783	0.21781707	1394.554041
SACRAMENT	2035 SBUS	Aggregated	30 GAS	1908.70951	0.00953298	0.12542585	682.5570246
SACRAMENT	2035 T6TS	Aggregated	30 GAS	5839.62597	0.0141065	0.12106067	1376.876436
SACRAMENT	2035 T7IS	Aggregated	30 GAS	54.9326814	0.3459446	3.20128776	1594.084733
SACRAMENT	2035 UBUS	Aggregated	30 GAS	241.171794	0.01198541	0.18977464	1262.385319
SACRAMENT	2035 LDA	Aggregated	35 GAS	3761261.12	0.0024359	0.01884293	189.3534902
SACRAMENT	2035 LDT1	Aggregated	35 GAS	364197.581	0.00371033	0.02349654	221.9939203
SACRAMENT	2035 LDT2	Aggregated	35 GAS	1177061.44	0.00395146	0.02338696	222.374602
SACRAMENT	2035 LHD1	Aggregated	35 GAS	21620.9251	0.00645038	0.07614104	631.7009415
SACRAMENT	2035 LHD2	Aggregated	35 GAS	3267.53198	0.0041881	0.06047339	721.5264976
SACRAMENT	2035 MCY	Aggregated	35 GAS	31842.6105	2.06000893	1.11109034	197.1866034
SACRAMENT	2035 MDV	Aggregated	35 GAS	719008.603	0.00495895	0.02840835	271.469817
SACRAMENT	2035 MH	Aggregated	35 GAS	1839.81722	0.01084574	0.13078333	1293.374052
SACRAMENT	2035 OBUS	Aggregated	35 GAS	1557.10519	0.02178712	0.20567508	1292.711767
SACRAMENT	2035 SBUS	Aggregated	35 GAS	1959.05019	0.00782	0.11855437	632.7132052
SACRAMENT	2035 T6TS	Aggregated	35 GAS	7257.76911	0.0115812	0.11431227	1276.33344
SACRAMENT	2035 T7IS	Aggregated	35 GAS	97.7051425	0.28479661	3.00724023	1477.388904
SACRAMENT	2035 UBUS	Aggregated	35 GAS	297.764397	0.01015162	0.18645751	1193.646431
SACRAMENT	2035 LDA	Aggregated	40 GAS	4608481.12	0.00210787	0.01803727	182.9771124
SACRAMENT	2035 LDT1	Aggregated	40 GAS	446232.692	0.00321347	0.02250498	214.5718735
SACRAMENT	2035 LDT2	Aggregated	40 GAS	1442193.26	0.00342096	0.02239921	214.9622418
SACRAMENT	2035 LHD1	Aggregated	40 GAS	6382.00407	0.00553567	0.07439566	611.4872368
SACRAMENT	2035 LHD2	Aggregated	40 GAS	964.50093	0.0035942	0.05921902	698.4492754
SACRAMENT	2035 MCY	Aggregated	40 GAS	39015.1241	1.825613	1.09532605	189.7425006
SACRAMENT	2035 MDV	Aggregated	40 GAS	880964.513	0.00429432	0.02722142	262.480627
SACRAMENT	2035 MH	Aggregated	40 GAS	2290.38279	0.00939816	0.12545087	1252.011279
SACRAMENT	2035 OBUS	Aggregated	40 GAS	1938.43546	0.01887918	0.19728905	1251.339855
SACRAMENT	2035 SBUS	Aggregated	40 GAS	1322.46244	0.00677233	0.11371185	612.4728708
SACRAMENT	2035 T6TS	Aggregated	40 GAS	9035.17442	0.01003545	0.10965139	1235.511444
SACRAMENT	2035 T7IS	Aggregated	40 GAS	85.1718942	0.2468914	2.87827854	1427.883263
SACRAMENT	2035 UBUS	Aggregated	40 GAS	392.207977	0.00886988	0.18047648	1161.306889
SACRAMENT	2035 LDA	Aggregated	45 GAS	1785715.76	0.00192859	0.0175496	183.5893771
SACRAMENT	2035 LDT1	Aggregated	45 GAS	172908.325	0.0029369	0.02192608	215.2901107
SACRAMENT	2035 LDT2	Aggregated	45 GAS	558827.772	0.00312816	0.02182111	215.6753627
SACRAMENT	2035 LHD1	Aggregated	45 GAS	7856.80864	0.00510188	0.07132939	613.6250559
SACRAMENT	2035 LHD2	Aggregated	45 GAS	1187.38552	0.00331255	0.05671177	700.9034052
SACRAMENT	2035 MCY	Aggregated	45 GAS	15117.7623	1.70213154	1.09144241	189.3117638
SACRAMENT	2035 MDV	Aggregated	45 GAS	341360.239	0.00392539	0.02655037	263.3585961
SACRAMENT	2035 MH	Aggregated	45 GAS	2088.67258	0.00861495	0.12142188	1256.409742
SACRAMENT	2035 OBUS	Aggregated	45 GAS	1767.72067	0.01730585	0.19095289	1255.69213
SACRAMENT	2035 SBUS	Aggregated	45 GAS	634.485647	0.00619205	0.1106722	614.6158635
SACRAMENT	2035 T6TS	Aggregated	45 GAS	8239.46164	0.00919913	0.10612981	1239.845652

SACRAMENT	2035 T7IS	Aggregated	45 GAS	90.1209587	0.22523394	2.81593938	1429.203091
SACRAMENT	2035 UBUS	Aggregated	45 GAS	329.94159	0.00810527	0.17402101	1163.0334
SACRAMENT	2035 LDA	Aggregated	50 GAS	1790132.74	0.00186774	0.01728113	189.3712082
SACRAMENT	2035 LDT1	Aggregated	50 GAS	173336.015	0.0028356	0.02163725	221.9941157
SACRAMENT	2035 LDT2	Aggregated	50 GAS	560210.036	0.00302456	0.0215306	222.3457267
SACRAMENT	2035 LHD1	Aggregated	50 GAS	58013.58	0.00500772	0.06841308	631.623987
SACRAMENT	2035 LHD2	Aggregated	50 GAS	8767.48922	0.00325141	0.05428631	721.4757269
SACRAMENT	2035 MCY	Aggregated	50 GAS	15155.1561	1.66567099	1.09497327	194.0535091
SACRAMENT	2035 MDV	Aggregated	50 GAS	342204.595	0.00379176	0.02624801	271.4335274
SACRAMENT	2035 MH	Aggregated	50 GAS	2032.70768	0.00826768	0.12122417	1293.281196
SACRAMENT	2035 OBUS	Aggregated	50 GAS	1720.35551	0.01660826	0.19064197	1292.48715
SACRAMENT	2035 SBUS	Aggregated	50 GAS	317.769685	0.00599364	0.10875249	632.6450923
SACRAMENT	2035 T6TS	Aggregated	50 GAS	8018.68951	0.00882832	0.10595701	1276.222929
SACRAMENT	2035 T7IS	Aggregated	50 GAS	94.2920445	0.21749582	2.77758596	1466.887328
SACRAMENT	2035 UBUS	Aggregated	50 GAS	321.828754	0.00757409	0.16912126	1178.563122
SACRAMENT	2035 LDA	Aggregated	55 GAS	3257743.34	0.00190117	0.0172834	197.1147937
SACRAMENT	2035 LDT1	Aggregated	55 GAS	315442.668	0.00287308	0.02170988	231.0717258
SACRAMENT	2035 LDT2	Aggregated	55 GAS	1019488.93	0.00307124	0.02159835	231.4292096
SACRAMENT	2035 LHD1	Aggregated	55 GAS	15956.4741	0.00497815	0.07168854	657.5410898
SACRAMENT	2035 LHD2	Aggregated	55 GAS	2411.47357	0.00323221	0.0570662	751.0989677
SACRAMENT	2035 MCY	Aggregated	55 GAS	27579.8592	1.7138807	1.11051072	202.1042175
SACRAMENT	2035 MDV	Aggregated	55 GAS	622755.349	0.00384461	0.02640486	282.5307348
SACRAMENT	2035 MH	Aggregated	55 GAS	2658.5965	0.00839551	0.12245355	1346.393668
SACRAMENT	2035 OBUS	Aggregated	55 GAS	2250.06831	0.01686505	0.19257534	1345.514221
SACRAMENT	2035 SBUS	Aggregated	55 GAS	472.979869	0.00602519	0.11170429	658.6144939
SACRAMENT	2035 T6TS	Aggregated	55 GAS	10487.7155	0.00896482	0.10703156	1328.627045
SACRAMENT	2035 T7IS	Aggregated	55 GAS	138.413736	0.22222659	2.77006111	1522.946579
SACRAMENT	2035 UBUS	Aggregated	55 GAS	523.373672	0.00788871	0.17644327	1247.197847
SACRAMENT	2035 LDA	Aggregated	60 GAS	2514935.47	0.00201852	0.01780153	203.6366432
SACRAMENT	2035 LDT1	Aggregated	60 GAS	243517.636	0.00303299	0.02246417	238.9737
SACRAMENT	2035 LDT2	Aggregated	60 GAS	787032.191	0.00325124	0.02234222	239.4621187
SACRAMENT	2035 MCY	Aggregated	60 GAS	21291.2925	1.86675584	1.15151164	212.3895324
SACRAMENT	2035 MDV	Aggregated	60 GAS	480759.028	0.00406227	0.02741915	292.6088181
SACRAMENT	2035 MH	Aggregated	60 GAS	3067.89905	0.00903089	0.12453857	1400.987647
SACRAMENT	2035 OBUS	Aggregated	60 GAS	2596.47616	0.0181414	0.19585432	1400.028502
SACRAMENT	2035 SBUS	Aggregated	60 GAS	263.23551	0.00649237	0.11330197	685.3129041
SACRAMENT	2035 T6TS	Aggregated	60 GAS	12102.3451	0.00964328	0.10885398	1382.493965
SACRAMENT	2035 T7IS	Aggregated	60 GAS	34.1607482	0.2380183	2.84227833	1580.721598
SACRAMENT	2035 UBUS	Aggregated	60 GAS	787.071037	0.0085117	0.18091353	1301.504816
SACRAMENT	2035 LDA	Aggregated	65 GAS	368686.329	0.00231299	0.01830738	211.470013
SACRAMENT	2035 LDT1	Aggregated	65 GAS	35699.3744	0.00344934	0.02323012	247.8736221
SACRAMENT	2035 LDT2	Aggregated	65 GAS	115377.914	0.00371063	0.02309569	248.2294724
SACRAMENT	2035 MCY	Aggregated	65 GAS	3121.27629	2.1176239	1.1818977	223.0740277
SACRAMENT	2035 MDV	Aggregated	65 GAS	70478.6595	0.0046253	0.02848363	303.0266122
SACRAMENT	2035 MH	Aggregated	65 GAS	479.398061	0.01030968	0.12715441	1443.780248
SACRAMENT	2035 OBUS	Aggregated	65 GAS	405.732268	0.02071026	0.1999681	1442.761086
SACRAMENT	2035 T6TS	Aggregated	65 GAS	1891.14463	0.01100878	0.11114038	1424.716803
SACRAMENT	2035 T7IS	Aggregated	65 GAS	18.309454	0.26917485	2.95476105	1625.825747
SACRAMENT	2035 UBUS	Aggregated	65 GAS	118.452535	0.00970324	0.18527511	1341.255773
SACRAMENT	2035 LDA	Aggregated	70 GAS	97543.7085	0.00244122	0.01912367	209.5697448
SACRAMENT	2035 LDT1	Aggregated	70 GAS	9445.01898	0.00362935	0.02436539	246.3286244
SACRAMENT	2035 LDT2	Aggregated	70 GAS	30525.6494	0.0039107	0.02421835	247.0160849
SACRAMENT	2035 MCY	Aggregated	70 GAS	825.799171	2.32739197	1.23484944	229.4445225
SACRAMENT	2035 MDV	Aggregated	70 GAS	18646.609	0.00486919	0.02995985	302.2502298
SACRAMENT	2035 UBUS	Aggregated	70 GAS	0	0	0	0

**Weighted Average EF (g/mile) All Speeds and Vehicles 0.01475569 0.02839651 234.6100592**

**APPENDIX K-7**  
**EMISSION REDUCTION CALCULATIONS FOR ELECTRIC VEHICLE CHARGING**  
**STATIONS**

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Calculation for Emissions Reduced through Electric Vehicle Charging Stations

1	Number of Charging Stations	480	From calculated number of electrically connected parking spaces
2	Connections per Charging Station	2	2 Connections at each charging station
3	Average Charging Hours per Connection per Day	3	Note 1
4	Average Total Hours Charging per year for all Connections	1,051,200	Item 1 * Item 2 * Item 3 * 365
5	Typical Average Charging Rate (kWh/hr)	6	Note 2
6	Total kWh charged per year	6,307,200	Item 4 * Item 5
7	Total MWh charged per year	6,307	Item 6 / 1000
8			<b>Public Charging Stations</b>
9	Average Efficiency of EV LDV (kWh/100 mi)	31.5	Note 3
10	Average Efficiency of EV LDV (miles per kWh)	3.2	100 mi / Item 9
11	Number of Equivalent Miles Charged per year (gasoline miles avoided)	20,022,857	Item 6 * Item 10
12			
13	SMUD CO2 intensity in 2030 (lbs/MWh)	236.9	Note 4
14			
15	ROG Running Only emission factor for gasoline vehicles in 2035 (g/mi)	0.01476	Note 5
16			
17	NOx running emission factor for gasoline vehicles in 2035 (g/mi)	0.02840	Note 5
18			
19	CO2 running emission factor for gasoline vehicles in 2035 (g/mi)	234.61	Note 5
20			
21			
22	<b>Annual ROG Emissions Saved through Charging (tons per year)</b>	<b>0.33</b>	Item 11 * Item 15 converted to tons
23	<b>Annual NOx Emissions Saved through Charging (tons per year)</b>	<b>0.63</b>	Item 11 * Item 17 converted to tons
24			
25	Annual CO2 Emissions Saved through Charging (tons per year)	5178	Item 11 * Item 19 converted to tons
26	Annual CO2 Emissions Saved through Charging (metric tons per year)	4701	Convert Item 23 to metric tons
27	Annual CO2 Emissions from Electricity required to charge (metric tons per year)	678	Item 7 * Item 13 converted to metric tons
28	<b>Net Annual CO2 Emissions Saved (metric tons per year)</b>	<b>4022</b>	Item 26 minus Item 27

- Note 1: Drive Clean California states that it takes 4 to 6 hours to fully charge an EV. But one would not typically allow the vehicle to be empty before charging, thus assumed 3 hrs/charge.  
 Note 2: Drive Clean California states that EVs have battery capacities of 24 to 36 kWh and fully charge in 4 to 6 hours, so 6 kWh/hr.  
 Note 3: Average efficiency of 24 model year 2019 electric vehicles, per USDOE. Used only model year 2019 because vehicles will be more efficient in 2035 than in the past.  
 Note 4: From SMUD for calendar year 2030, per Memo dated January 11, 2019 from Mr. Todd Smith, Sacramento County PER.  
 Note 5: From EMFAC 2017 for gasoline engines, all models and model years; calendar year 2035.

References:

- Drive Clean California = [https://www.driveclean.ca.gov/pev/Plug-in\\_Electric\\_Vehicles/Find\\_the\\_Right\\_PEV.php](https://www.driveclean.ca.gov/pev/Plug-in_Electric_Vehicles/Find_the_Right_PEV.php)  
 USDOE = <https://fuelconomy.gov/feg/PowerSearch.do?action=noform&path=1&year1=1984&year2=2019&vtype=Electric>  
 CAPCOA = Quantifying Greenhouse Gase Mitigation Measures, August 2010 (SDT-1, page 187, footnote 45).  
 EMFAC2017 = EMFAC2017 Web Database for Calendar year 2035, Sacramento County Emissions

<b>Home Charging Stations -- Project-Related VMT</b>	Alternative 2 Project-Related VMT	113,259,971 miles	LD and MD DUs Pre-Wired (100% of Total):	3,540
	Total Alternative 2 Dwelling Units	5,690 DU	HD Dus Pre-Wired (10% of total):	205
	Annual VMT per DU	19,905 mi/yr	Total DU Pre-Wired	3,745
	Percent of Pre-Wired DU with EV	15%		
	Total EV miles	11,181,685	% Pre-Wired with EV * Number of Pre-Wired * VMT/DU	
	Alternative 2 Project-Related Mobile Only ROG	13.5 tpy		
	Alternative 2 Project-Related Mobile Only NOX	71.4 tpy		
	Alternative 2 Project-Related Mobile Only CO2e	35,957 metric tons per year		
	<b>ROG Emissions Saved</b>	<b>1.33 tpy ...</b>	<b>ROG * (EV miles / Project miles)</b>	
	<b>NOX Emissions Saved</b>	<b>7.05 tpy ...</b>	<b>NOX * (EV miles / Project miles)</b>	
CO2e Emissions Saved	3,550 MT/yr ...	CO2e * (EV miles / Project miles)		
Required electricity for charging (MWh/yr)	3,522	EV miles * kWh/100 miles		
Emissions from charging electricity (MT/yr)	379			
<b>Net CO2e Emissions Saved</b>	<b>3,171</b>	<b>MT/yr</b>		

<b>Home Charging Stations -- Cumulative VMT</b>	Alternative 2 Project-Related VMT	90,802,301 miles	LD and MD DUs Pre-Wired (100% of Total):	3,540
	Total Alternative 2 Dwelling Units	5,690 DU	HD Dus Pre-Wired (10% of total):	205
	Annual VMT per DU	15,958 mi/yr	Total DU Pre-Wired	3,745
	Percent of Pre-Wired DU with EV	15%		
	Total EV miles	8,964,533	% Pre-Wired with EV * Number of Pre-Wired * VMT/DU	
	Alternative 2 Project-Related Mobile Only ROG	11.5 tpy		
	Alternative 2 Project-Related Mobile Only NOX	61.1 tpy		
	Alternative 2 Project-Related Mobile Only CO2e	28,405 metric tons per year		
	<b>ROG Emissions Saved</b>	<b>1.14 tpy ...</b>	<b>ROG * (EV miles / Project miles)</b>	
	<b>NOX Emissions Saved</b>	<b>6.03 tpy ...</b>	<b>NOX * (EV miles / Project miles)</b>	
CO2e Emissions Saved	2,804 MT/yr ...	CO2e * (EV miles / Project miles)		
Required electricity for charging (MWh/yr)	2,824	EV miles * kWh/100 miles		
Emissions from charging electricity (MT/yr)	304	MT/yr		
<b>Net CO2e Emissions Saved</b>	<b>2,501</b>	<b>MT/yr</b>		

**APPENDIX L**  
**VMT REDUCTION FROM THE ENHANCED TRANSIT PROGRAM**

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**Table 1  
Summary of Impact of Free RT Passes for Residents and Workers in Jackson Township**

Development Scenario	Transit Fare	All trips anywhere in region by Jackson Township residents			Transit Trips to/from Jackson Township		Boardings on Entire Bus Route		Boardings on Portions of Route within Jackson Township	
		Transit Trips	VMT	VMT/capita	Residents	Workers	Jackson Township to Watt Manlove Station	Sunrise Station to Watt Manlove Station via Jackson Rd	Jackson Township to Watt Manlove Station	Sunrise Station to Watt Manlove Station via Jackson Rd
Existing Plus Project	Regular	1,005			881	533	1,505	NA	1,299	NA
	Free RT Pass	1,275			1077	647	1,698		1,595	
	Change	270			196	114	193		296	
	Percent Change	26.9%			22.2%	21.4%	12.8%		22.8%	
MTP Cum + 4 Projects	Regular	2,074	285,238	18.08	1,813	1,188	3,991	8,238	2,349	2,380
	Free RT Pass	2,373	283,659	17.78	2,043	1,275	4,147	8,370	2,587	2,537
	Change	299	-1,579	-0.30	230	87	156	132	238	157
	Percent Change	14.4%	-0.6%	-0.02	12.7%	7.3%	3.9%	1.6%	10.1%	6.6%
CEQA Cum + 4 Projects	Regular	1,974			1,720	1,208	3,531	7,414	2,203	2,276
	Free RT Pass	2,361			2,025	1,331	3,773	7,622	2,576	2,501
	Change	387			305	123	242	208	373	225
	Percent Change	19.6%			17.7%	10.2%	6.9%	2.8%	16.9%	9.9%



**REVISION 3a - UPDATED GREENHOUSE GAS  
REDUCTION PLAN FOR THE PROPOSED  
JACKSON TOWNSHIP SPECIFIC PLAN**

**KLF Project #20210907.001A**

**January 4, 2021**

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**REVISION 3a - UPDATED GREENHOUSE GAS  
REDUCTION PLAN FOR THE PROPOSED  
JACKSON TOWNSHIP SPECIFIC PLAN**

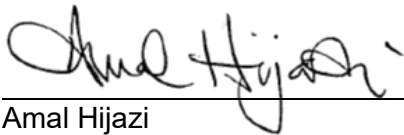
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- C Alternative 2 GHG Emissions Compared to SB 743 Target Level
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## 1 EXECUTIVE SUMMARY

---

### 1.1 INTRODUCTION

Tsakopoulos Investments (the Applicant) is proposing the Jackson Township Specific Plan (Jackson Township) encompassing approximately 1,391 acres of land located in southeastern Sacramento County, east of Excelsior Road, north of Jackson Highway, and west of Eagles Nest Road. The proposed project is located approximately 10 miles southeast of the Sacramento central business district. The Jackson Township project is a mixed-use development that includes a combination of different housing types and commercial and retail land uses.

In May 2019, Revision 2 Update to the Air Quality Mitigation Plan (AQMP) and the Greenhouse Gas Reduction Plan (GHGRP) for Jackson Township were prepared and submitted to the Sacramento County Planning and Environmental Review Division (PER) and the Sacramento Metropolitan Air Quality Management District (SMAQMD). Revision 2 updated the Revision 1 AQMP/GHGRP prepared in February 2019 and the original AQMP/GHGRP prepared in August 2015. Revisions 1 and 2 were in response to PER and SMAQMD requests and new emission models and significance thresholds.

This Revision 3a GHGRP addresses new greenhouse gas (GHG) significance thresholds published by the SMAQMD<sup>1</sup> and adopted by the County of Sacramento on December 16, 2020. Revision 3a incorporates comments made by the SMAQMD and PER on the Revision 3 GHGRP submitted on November 25, 2020, and Revision 3 was in response to comments made on the Draft Environmental Impact Report and newly adopted thresholds and standards. Only the GHGRP required updating as the result of the new rules and thresholds as there are no changes to the AQMP thresholds or requirements that were used in the AQMP Revision 2 or 3. The new SMAQMD GHG thresholds require that the Jackson Township Specific Plan Alternative 2 meet both Tier 1 and Tier 2 Best Management Practices (BMPs). Those BMPs are addressed below in Section 1.2. The third BMP was promulgated considering implementation of Senate Bill 743 (SB 743) requirements by the local jurisdiction, the County in this case. SB 743 states that transportation impacts under the California Environmental Quality Act (CEQA) may no longer be

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<sup>1</sup> Greenhouse Gas Thresholds for Sacramento County, *SMAQMD, June 2020.*



measured with automobile delay and level of service (LOS) after July 1, 2020. SB 743 is designed to encourage reduction of GHG emissions from transportation, and since the third BMP published by SMAQMD is aimed at meeting SB 743, the thresholds established by the third BMP for the project will be referred to as the SB 743 'target level.'

## 1.2 SB 743 TRANSPORTATION TARGET LEVEL

The SMAQMD GHG rules for large projects such as the Jackson Township Specific Plan require implementation of three BMPs:

- BMP 1 specifies that projects shall be designed and built without natural gas infrastructure.
- BMP 2 specifies that projects shall meet current CalGreen Voluntary Tier 2 standards except that all electric vehicle (EV) capable (EV Capable) spaces shall instead be EV Ready. EV Capable means that the parking space will be installed with a raceway and electrical panel capable of supporting an EV charging station. EV Ready means that in addition to the raceway and panel, dedicated branch circuits, circuit breakers, and other electrical components will be installed to support future installation of charging stations, but does not include installation of the charger itself. According to Appendix B of the SMAQMD Guidance, current CalGreen Voluntary Tier 2 standards require 100 percent of single family and 20 percent of multi-family housing to be pre-wired to EV Ready.
- BMP 3 specifies that a project shall comply with the local jurisdiction's SB 743 requirements if they have been adopted. Sacramento County adopted SB 743 requirements on October 6, 2020. The Sacramento County program requires VMT per capita for a proposed project achieve a 15 percent reduction in regional VMT per resident and VMT per employee, and that there shall be no net increase in retail VMT. The County program provides that if the VMT reduction standard cannot be met the County can find a significant and unavoidable impact and override such impact.

The SMAQMD Guidance allows project proponents to demonstrate equivalent GHG emission reductions if the BMPs cannot be met. Jackson Township intends to meet BMP 1 and 2 and use equivalent emission reductions for BMP 3. However, if an entity requires natural gas access in the future, further equivalent emission reductions will also be used to meet the BMP 1 requirement.

On October 16, 2020, DKS Associates (DKS) prepared a memorandum for PER that evaluated the Jackson Township Alternative 2 with respect to the SB 743 target level. The DKS memo also

described the amount of VMT reduction that would occur from some of the mitigation planned for Jackson Township. As requested by PER, DKS only evaluated Jackson Township Alternative 2. The DKS memo is shown in Appendix A.

DKS calculated the per capita VMT values for Jackson Township Alternative 2 as designed without mitigation as shown in Table 1-1. Both Project-Related VMT and Cumulative VMT were evaluated. Project-Related VMT is based on an assumption that Jackson Township is the only project developed in the area. Cumulative VMT is based on a more realistic assumption that there will be other projects developed in the area, and thus the VMT associated with Jackson Township is less because drivers can make combined trips.

It is important to recognize that the two VMT metrics (Residential and Employee) calculated by DKS must be evaluated independently. Some of the same VMT is counted in both metrics, so if one adds the Residential VMT from the DKS memo to the Employee VMT, the total is greater than when the project VMT is evaluated as a whole single entity. For example, some of the Jackson Township residents work at businesses within the Jackson Township, but that VMT is counted twice: once for the residential metric and once for the Employee metric. There are other duplications in the VMT analysis between the two metrics, so, they have to be evaluated separately. Furthermore, the VMT used in the two metrics do not account for mutually beneficial land uses that result in less VMT. The issues with the VMT are an inherent feature of the current VMT modeling and future modeling may be able to refine those limitations. This GHGRP is based on the only currently available VMT modeling and thus provides a conservative overestimate of the mitigation needed.

**Table 1-1**  
**DKS Calculated VMT SB 743 Criteria for Alternative 2 As Designed**  
**Prior to Additional Transportation Mitigation**

<b>VMT Category</b>	<b>Residential Criteria (VMT per Jackson Township Resident)</b>	<b>Employee Criteria (VMT per Jackson Township Employee)</b>
Project-Related Regional Daily VMT per Capita	17.9	19.1
Project-Related 85% of Regional Daily VMT per Capita*	15.2	16.3
<i>Project-Related Jackson Township Daily VMT per Capita prior to Additional Transportation Mitigation</i>	21.9	23.0
Cumulative Regional Daily VMT per Capita	17.2	17.3
Cumulative 85% of Regional Daily VMT per Capita*	14.6	14.7

<b>VMT Category</b>	<b>Residential Criteria</b> (VMT per Jackson Township Resident)	<b>Employee Criteria</b> (VMT per Jackson Township Employee)
<i>Cumulative Jackson Township Daily VMT per Capita prior to Additional Transportation Mitigation*</i>	16.6	19.8

\*85% of Regional VMT per Capita equates to the BMP 3 Target Level: 15% less than Regional.

Source: Table 1 of the DKS Memo shown in Appendix A.

With respect to the no net increase in retail VMT requirement of BMP 3, PER distinguishes between local serving and regional serving retail. Local serving retail can be screened out of the VMT analysis. DKS and PER concluded that all but two of the planned retail parcels were local serving. Two parcels in Jackson Township could be considered regional serving; however, DKS conducted a brand proximity analysis and concluded that the two possible regional serving parcels would fill a gap in competing regional retail sites and so there would be no increase of retail VMT when the Jackson Township is developed. Thus, the no net increase in retail VMT target will be met.

DKS also calculated the percent reduction in VMT associated with transportation mitigation that will be implemented for the Jackson Township. The mitigation programs and their percent reduction are detailed in Table 1-2. The transportation mitigation programs and their effect on VMT are more fully described in Section 2 of this GHGRP and described in the DKS memo included in Appendix B.

**Table 1-2**  
**Percent Reduction in VMT from Jackson Township**  
**Additional Transportation Mitigation Programs**

<b>Transportation Mitigation Program</b>	<b>Percent Reduction in Total VMT</b> (Commute and Non-Commute)
Enhanced Transportation Program	0.6 %
Below Market Rate (BMR) Housing	0.4 %
Multi-modal transportation system that makes public transit, walking, and bicycling viable and attractive travel choices for residents and employees (LUT-9).	0.625 %
Transportation Management Association (TMA)	2 %

Source: Attachment 1 to the DKS Memo shown in Appendix A.

After the transportation mitigation programs are incorporated, the project-related and cumulative VMT Jackson Township target levels are as shown in Table 1-3.

**Table 1-3**

**VMT SB 743 Criteria for Alternative 2 After Additional Transportation Mitigation Programs**

<b>VMT Category</b>	<b>Residential Criteria (VMT per Jackson Township Resident)</b>	<b>Employee Criteria (VMT per Jackson Township Employee)</b>
Project-Related VMT Regional Daily VMT per Capita	17.9	19.1
Project-Related 85% of Regional Daily VMT per Capita*	15.2	16.3
<i>Project-Related Jackson Township Daily VMT per Capita After Additional Transportation Mitigation</i>	21.1	22.2
Cumulative VMT Regional Daily VMT per Capita	17.2	17.3
Cumulative 85% of Regional Daily VMT per Capita*	14.6	14.7
<i>Cumulative Jackson Township Daily VMT per Capita After Additional Transportation Mitigation</i>	16.0	19.1

\*85% of Regional VMT per Capita equates to the BMP 3 Target Level: 15% less than Regional.

Source: Table 1 of the DKS Memo shown in Appendix A, DKS Memo for the regional values; Appendix C for the Jackson Township values.

**1.3 CONSTRUCTION EMISSIONS**

GHG emissions from construction activities are not generally considered a meaningful GHG impact because they are typically a one-time activity over a relatively short period of time compared to the operational life of a project, and because projects do not typically create “new” construction equipment or emissions (i.e., the construction equipment will be used somewhere else even if the proposed project is not constructed). However, as construction of the Jackson Township will occur over about a 15-year period the associated GHG emissions are also assessed herein. The total construction emissions for the 15-year period were amortized over the life of the project assuming a 50-year lifetime<sup>2</sup> and added to the operational emissions, for a total of 65 years. Sixty-five years was used because there are operational emissions during the construction period. Section 3 discusses construction GHG emissions.

**1.4 NON-TRANSPORTATION GHG REDUCTIONS CONTAINED IN THE AQMP**

As shown in Table 1-3, even after the additional transportation mitigation programs are incorporated, VMT per capita still exceeds the SB 743 target levels. SMAQMD Guidance specifically states that additional equivalent GHG reductions can be implemented to meet the SB

<sup>2</sup> According to the NewBridge Specific Plan Greenhouse Gas Reduction Plan dated July 10, 2020, Footnote 15 on Page 23; 50 years is the most commonly used duration for building life-cycle analyses and is used by the European Union for building life spans for modern buildings.

743 target levels. Jackson Township had already committed to several non-transportation mitigation measures in the AQMP. As shown in Section 5.2, the additional non-transportation mitigation that can be credited for SB 743 includes high efficacy public outdoor lighting, energy efficient appliances, and 480 public electric vehicle charging stations. Section 5.2 presents the amount of GHG reductions associated with the non-transportation mitigation included in the AQMP. The analysis addresses the fact that not all of the AQMP mitigation can be credited towards the draft SB 743 target levels because BMP 1 already requires no natural gas and BMP 2 requires EV ready pre-wiring for all single family housing and 20 percent of multi-family housing.

#### 1.5 ADDITIONAL NON-TRANSPORTATION MITIGATION TO ACHIEVE EQUIVALENT GHG REDUCTIONS TO MEET SB 743 TARGET LEVELS

Jackson Township will implement additional non-transportation mitigation beyond that contained in the AQMP and required by BMP 1 and 2 in order to achieve an equivalent GHG reduction to the SB 743 target levels for operational and construction emissions. The additional non-transportation mitigations include installing an additional 210 public electric vehicle charging stations (for a total of 690 stations serving two parking spaces per station) and pre-wiring an additional 57 percent of multi-family housing, for a total of 77 percent of multi-family housing being pre-wired. Section 5.3 discusses the emission reductions associated with this additional mitigation.

Tables 1-4 and 1-5 present the amount of GHG emission reductions that are greater than required by SB 743 for operational plus construction emissions when all mitigation is accounted for: transportation mitigation, creditable non-transportation GHG mitigation contained in the AQMP, and additional non-transportation GHG mitigation committed to in this Revision 3a GHGRP.

**Table 1-4**

**Equivalent GHG Reductions from Additional Mitigation  
for Jackson Township Alternative 2 Project-Related VMT**

<b>GHG Emissions</b>	<b>Residential GHG (MT/yr)</b>	<b>Employee GHG (MT/yr)</b>
Project-Related Jackson Township Transportation Operational GHG Emissions that Exceed SB 743 (from Table 4-1)	5,614	2,230
Construction Emissions Added to the SB 743 Exceedance (from Section 3)	1,265	1,265
<b>Total Project-Related Jackson Township GHG Emissions that Exceed SB 743</b> (Operational Exceedance plus Construction)	<b>6,879</b>	<b>3,495</b>
Creditable Non-Transportation Reductions from AQMP (from Table 4-2)	(4,132)	(4,070)
Additional Non-Transportation GHG Reductions (from Table 4-3)	(2,749)	(2,749)
<b>Net Project-Related GHG Emissions After Mitigation</b>	<b>- 2</b>	<b>- 3,324</b>

MT/yr = Metric tons per year

**Table 1-5**

**Equivalent GHG Reductions from Additional Mitigation  
for Jackson Township Alternative 2 Cumulative VMT**

<b>GHG Emissions</b>	<b>Residential GHG (MT/yr)</b>	<b>Employee GHG (MT/yr)</b>
Cumulative Jackson Township Transportation Operational GHG Emissions that Exceed SB 743 (from Table 4-1)	1,329	1,666
Construction Emissions Added to the SB 743 Exceedance (from Section 3)	1,265	1,265
<b>Total Cumulative Jackson Township GHG Emissions that Exceed SB 743</b> (Operational Exceedance plus Construction)	<b>2,594</b>	<b>2,931</b>
Creditable Non-Transportation Reductions from AQMP (from Table 4-2)	(4,132)	(4,070)
Additional Non-Transportation GHG Reductions (from Table 4-3)	(2,540)	(2,540)
<b>Net Cumulative GHG Emissions After Mitigation</b>	<b>- 4,078</b>	<b>- 3,679</b>

MT/yr = Metric tons per year

**1.6 SUMMARY OF GHG MITIGATION**

The proposed Jackson Township Specific Plan includes four different mitigation strategies that are more stringent than the SB 743 requirements. The four strategies include inherent design

features that reduce VMT, additional transportation mitigation, additional non-transportation mitigation contained in the AQMP, and additional non-transportation specifically to address SB 743. These four strategies result in emission reductions greater than emissions associated with the proposed project, including construction emissions, and thus there is a net reduction in GHG emissions compared to SB 743 requirements. The four mitigation strategies are as follows:

#### 1.6.1 Inherent Design Features that Reduce VMT

The inherent VMT-reducing features that are built in to the Jackson Township design are discussed in detail in Section 2.1 and include the following:

- Location
- Density/Mix
- Internal Proximity
- Multi- Modal Efficiency
- Transit Supportive

#### 1.6.2 Additional Transportation Mitigation

Four additional programs reduce VMT. The programs and benefit are discussed in Section 2.2 and include the following. The programs reduce VMT by a total of 3.625 percent:

- Enhanced Transportation Program
- Below market rate housing
- Multi-modal transportation design
- Transportation Management Association

#### 1.6.3 Creditable Non-Transportation Mitigation Included in the AQMP

The AQMP mitigation measures achieve reductions in nitrogen oxides (NO<sub>x</sub>) and reactive organic gases (ROG) emissions to help reduce ambient ozone concentrations. The measures in the AQMP also reduce GHGs. Not all of the AQMP non-transportation mitigation can be credited for the SB 743 VMT requirement (BMP 3) because some of the measures are already required by BMP 1 and BMP 2. The creditable measures and benefits are discussed in Section 5.2 and include the following:

- High efficacy public outdoor lighting

- Energy efficient appliances
- 480 public electric vehicle charging stations

#### 1.6.4 Additional Non-Transportation Mitigation

In order to offset GHG emissions that are in excess of SB 743 target levels, in addition to the AQMP mitigation, Jackson Township will include additional non-transportation mitigation. The additional mitigation is discussed in Section 5.3 and includes the following:

- Additional 210 public electric vehicle charging stations for a total of 690 stations serving two parking spaces per station
- Additional pre-wiring of 57 percent of multi-family housing in excess of the BMP 2 20 percent requirement for a total of 77 percent of multi-family housing being pre-wired for EV charging.

#### 1.7 PREVIOUS GHG THRESHOLDS

Prior to SB 743, SMAQMD Guidance, and PER proposing to adopt the SMAQMD BMP 1, BMP 2, and BMP 3 requirements; PER had adopted 2020 thresholds and those thresholds were extrapolated in the prior GHGRPs to 2035 using PER-specified methods. Section 5 discusses these previously used thresholds and demonstrates that the proposed project emission reductions are much greater than required by those thresholds.

#### 1.8 NON-QUANTIFIED MITIGATION

The preceding sections of the GHGRP deal only with quantified VMT and associated emission reductions to meet SB 743. There are numerous other project design features that also result in reduced GHG emissions. The benefit of those features has not been quantified. For example, the following features, among others, will occur but the benefit of those features have not been quantified:

- An over-statement of VMT because the DKS analysis for SB 743 does not account for the mutually beneficial interaction of the Jackson Township with other existing land uses that results in reduced VMT. For example, Jackson Township schools and retail will serve not only Jackson Township residences but existing residences in the area, thus reducing the distance traveled by existing persons.
- Low flow bathroom, kitchen, showers, and toilets in all residential units and commercial



- buildings.
- Reduced square footage of residential turf due to the increased housing density.
  - Water efficient irrigation systems and water efficient landscaping for the non-residential areas.
  - Preserved wetlands, greenbelt, parks, and other vegetative areas totaling approximately 400 acres for Alternative 2 (more than 25 percent of the project area).

Finally, all of the mobile-source emission estimates are over-stated because they do not account for the very large electric vehicle penetration and other changes in transportation that will have to occur if California is to reach the 2050 GHG reduction goal.

## 2 PROPOSED JACKSON TOWNSHIP TRANSPORTATION MITIGATION

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### 2.1 JACKSON TOWNSHIP DESIGNED TRANSPORTATION MITIGATION

The Jackson Township project design incorporates numerous features that inherently reduce vehicle travel and thus total VMT. These inherent design features include, but are not limited to, the features listed below. Where applicable, the related California Air Pollution Control Officers Association (CAPCOA)<sup>3</sup> Greenhouse Gas Mitigation Measure is noted. However, the CAPCOA emission reduction percentages for the noted measures were not used, and instead the Traffic Study VMT was used to calculate emissions.

#### LOCATION

- Project is located in a suburban center within approximately 10 miles of the Sacramento downtown central business district and less than 5 miles from other existing high-density commercial/job center areas (LUT-2 and LUT-3).
- Project is located adjacent to other planned developments such that single-use trips are minimized, i.e., there are more pass-by and diverted trips (LUT-3 and LUT-4)

#### DENSITY/MIX

- Project provides a compact mix of land uses in close proximity to each other with a highly connected street and trail network (LUT-3).
- Project design is for high and medium density housing for over half of the total project dwelling units (LUT-1).
- Housing density is better than 9.5 dwelling units per acre (LUT-1).
- Project includes below market rate housing (LUT-6).
- Approximately 15 percent of the total commercial square footage is dedicated to a mixed-use facility that combines residences and commercial/retail uses (LUT-3).

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<sup>3</sup> *Quantifying Greenhouse Gas Mitigation Measures*, August 2010, CAPCOA. Available at: <http://www.capcoa.org/wp-content/uploads/2010/11/CAPCOA-Quantification-Report-9-14-Final.pdf>.

## INTERNAL PROXIMITY

- Most residential units are within 1,320 feet (one-quarter mile) of a neighborhood park, open space, school, and/or bicycle/pedestrian trail (LUT-3).
- Most residential units are less than one-half mile from shopping and services (LUT-4).
- Project design includes locating at least four schools within the project boundaries such that most students can walk to a local school (LUT-3 and LUT-4).
- Project design includes at least eight parks within the project boundaries such that residents can walk/bike to enjoy the parks (LUT -3 and LUT-4).

## MULTI- MODAL EFFICIENCY

- Project design is based on a network of streets in a grid pattern (LUT-8).
- Project design includes access to high frequency bus service that connects to the Watt/Manlove light rail station (LUT-5).
- Bus routes are signalized in order to avoid traffic delays (TST-4).
- Project design promotes a multi-modal system that makes public transit, walking, and bicycling viable and attractive travel choices for residents and employees. Features include:
  - Adequate bike parking at non-residential locations, including the transit center and park and ride locations (TST-5)
  - Showers/lockers and other end of trip facilities at non-residential buildings (TRT-5)
  - Long-term bike parking facilities (TST-5)
- Project includes an extensive pedestrian path and trail system that is convenient and accessible from homes, school, parks, employment and shopping (LUT-8).
- Pedestrian and bike paths minimize any barriers to pedestrian/bicycle use, e.g., fences, berms and other impediments are eliminated where possible (LUT-8 and TST-2).

## TRANSIT SUPPORTIVE

- Project adds an on-site transit center and park and ride facilities along the designated transit route of Jackson Highway (LUT-5, TST-1, TST-2, TST-3, and RPT-4).

- Project subsidizes bus rapid transit lanes on Jackson Highway (TST-1, TST-4, and RPT-3).
- Project funding and design will result in bus headways of 15 minutes or better (TST-1, TST-4, RPT-2, and RPT-3).

## 2.2 ADDITIONAL TRANSPORTATION MITIGATION

In addition to the inherent design features that reduce VMT, the proposed Jackson Township Specific Plan includes four transportation mitigation programs that were not included in the VMT per capita values calculated by DKS, but DKS did present the percent VMT reduction for the programs. The purpose of this Section of the GHGRP is to show how the four programs reduce VMT and the associated per capita values.

Table 2-1 shows the four programs and the percent reductions in VMT.

**Table 2-1**

**Percent Reduction in VMT from Jackson Township Transportation Mitigation Programs**

Transportation Mitigation Program	Percent Reduction in Total VMT (Commute and Non-commute)
Enhanced Transportation Program	0.6 %
Below Market Rate (BMR) Housing	0.4 %
Multi-modal transportation system (LUT-9).	0.625 %
Transportation Management Association (TMA)	2 %

Source: Attachment 1 to the DKS Memo shown in Appendix A.

The elements of the transportation mitigation programs are as follows:

- The Enhanced Transportation Program is a non-revocable funding mechanism that will pay for bus and/or shuttle operations between the project and the Manlove Light Rail Station. The non-revocable funding mechanism would be administered by the County and would provide residents and employees of Jackson Township with transit passes that would access the entire Regional Transit system.
- Below market rate housing (BMR), which includes zoning and other features such that approximately 10 percent of the housing would be for moderate income or less.

- Multi-modal transportation system (LUT-9) is a CAPCOA mitigation measure<sup>4</sup> for a multi-modal transportation system that makes public transit, walking, and bicycling viable and attractive travel choices for residents and employees. The system includes adequate bike parking at nonresidential locations, including the transit center and park and ride locations; showers/lockers and other end of trip facilities at non-residential buildings; long-term bike parking facilities; an extensive pedestrian path and trail system that is convenient and accessible from homes, school, parks, employment, and shopping, and minimal barriers to pedestrian/bicycle use (e.g., fences, berms, and other impediments are eliminated where possible).
- The Transportation Management Association (TMA) will be funded through assessments. VMT reductions were calculated for guaranteed ride home/ride match and telework and flexible schedule programs. DKS analyzed the benefit of the TMA (refer to Appendix B).

The VMT reduction benefit of the transportation mitigation programs was calculated as shown in Appendix C and repeated in Tables 2-2 and 2-3. The values in Tables 2-2 and 2-3 were taken from the spreadsheet of Appendix C and may not calculate exactly due to roundoff differences.

**Table 2-2**  
**VMT Reduction from Transportation Mitigation Programs**  
**for Jackson Township Alternative 2 Project-Related VMT**

	Residential	Employee
Project-Related Jackson Township Daily VMT per Capita Prior to Transportation Mitigation Programs (from Appendix A Table 1)	21.9	23.0
Number of Residents/Employees Used in Per Capita Calculations (from Appendix B Table 2)	14,597	5,837
Project-Related Jackson Township Daily VMT (miles per day)	319,674	134,251
VMT Reduction from Enhanced Transportation Program (percentage reduction from Table 2-1 times daily VMT)	(1,918)	(806)
VMT Reduction from BMR Housing (percentage reduction from Table 2-1 times daily VMT)	(1,279)	(537)
VMT Reduction from Multi-modal System (percentage reduction from Table 2-1 times daily VMT)	(1,998)	(839)
VMT Reduction from TMA (percentage reduction from Table 2-1 times daily VMT)	(6,393)	(2,685)

<sup>4</sup> CAPCOA, *ibid*. Note that the DKS memo in Appendix B references SDT-6, but the multi-modal transportation system to be incorporated into the Jackson Township that encourages bicycle riding is broader than SDT-6, thus LUT-9 will be referenced herein.

	Residential	Employee
Total VMT Reduction from Transportation Mitigation Programs	(11,588)	(4,867)
Project-Related Jackson Township Daily VMT per Capita After Transportation Mitigation Programs	21.1	22.2
SB 743 85% of Regional VMT per Capita Target (from Appendix A, Table 1)	15.2	16.3

**Table 2-3**

**VMT Reduction from Transportation Mitigation Programs  
for Jackson Township Alternative 2 Cumulative VMT**

	Residential	Employee
Cumulative Jackson Township Daily VMT per Capita Prior to Transportation Mitigation Programs (from Appendix A Table 1)	16.6	19.8
Number of Residents/Employees Used in Per Capita Calculations (from Appendix B Table 2)	14,597	5,837
Cumulative Jackson Township Daily VMT (miles per day)	242,310	115,573
VMT Reduction from Enhanced Transportation Program (percentage reduction from Table 2-1 times daily VMT)	(1,454)	(693)
VMT Reduction from BMR Housing (percentage reduction from Table 2-1 times daily VMT)	(969)	(462)
VMT Reduction from Multi-modal System (percentage reduction from Table 2-1 times daily VMT)	(1,514)	(722)
VMT Reduction from TMA (percentage reduction from Table 2-1 times daily VMT)	(4,846)	(2,311)
Total VMT Reduction from Transportation Mitigation Programs	(8,784)	(4,190)
Cumulative Jackson Township Daily VMT per Capita After Transportation Mitigation Programs	16.0	19.1
SB 743 85% of Regional VMT per Capita Target (from Appendix A, Table 1)	14.6	14.7

### 3 CONSTRUCTION GHG EMISSIONS

GHG emissions from construction activities are not generally considered a meaningful GHG impact because they are typically a one-time activity over a relatively short period of time compared to the operational life of a project, and because projects do not typically create “new” construction equipment or emissions (i.e., the construction equipment will be used somewhere else even if the proposed project is not constructed). However, construction of the Jackson Township will occur roughly over a 15-year period, thus construction emissions were added to the operational emissions so that they are also offset as part of achieving the SB 743 target levels.

The AQMP Appendix J-4 shows the California Emissions Estimator Model (CalEEMod) emission estimates for construction of the Jackson Township Alternative 2. The GHG emissions from the CalEEMod run are repeated here in Table 3-1.

**Table 3-1**

**Construction GHG Emissions for the Jackson Township Alternative 2**

<b>Construction Year</b>	<b>GHG Emissions (CO<sub>2</sub>e, MT/yr)</b>	<b>Construction Year</b>	<b>GHG Emissions (CO<sub>2</sub>e, MT/yr)</b>
2020	603.1	2028	6,452.7
2021	600.1	2029	6,373.1
2022	3,168.8	2030	6,319.8
2023	7,179.3	2031	6,239.3
2024	7,067.1	2032	6,193.2
2025	6,875.6	2033	6,086.1
2026	6,727.9	2034	5,755.5
2027	6,595.0	<b>Total 2020 to 2034</b>	<b>82,236.6</b>

Source: May 2019 AQMP Appendix J-4

The construction emissions were amortized over 65 years, which includes the anticipated 50-year life of Jackson Township facilities plus the 15-year construction period. Sixty-five years was used because there are operational emissions during the construction period as most of the residential and some of the commercial buildings will be completed before the end of the 15-year construction period). So the annual GHG emissions are 1,265 metric tons per year (MT/yr). As explained in

Section 7 of the AQMP, the construction emission estimates are a conservative over-estimate of the anticipated emissions.



## **4 ADDITIONAL NON-TRANSPORTATION MITIGATION TO ACHIEVE SB 743 TARGET LEVELS**

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### **4.1 AMOUNT OF GHG EMISSIONS TO BE OFFSET**

In order to achieve an equivalent GHG reduction to the SB 743 target levels, the amount of GHG transportation emissions that exceed SB 743 plus the amount of construction GHG emissions can be offset through a combination of creditable GHG reductions contained in the AQMP and additional mitigation committed to herein as the GHGRP.

Table 5-1 shows the total excess GHG emissions (including construction emissions) that must be offset. The values in Table 5-1 and following are taken from the emissions calculation spreadsheet shown in Appendix C, and the values in the table may not calculate exactly due to roundoff differences. Annual VMT was calculated from daily VMT by multiplying the daily values times 320 in accordance with PER instructions. The value of 320 accounts for the fact that the daily VMT (which includes commuting to work) will not occur on Saturday, Sunday, and Holidays.

The GHG emission factor (grams per mile) shown in Table 5-1 was calculated from the EMFAC 2017 model shown in Appendix D for only light duty vehicles at all speeds and all models for calendar year 2035. Only light duty vehicles were used for determining the emission factor because the SB 743 VMT from the DKS memos are for commute trips which DKS indicated will only occur in light duty vehicles. Note that the EMFAC 2017 emission factors do not account for electric vehicle penetration in the County (because EMFAC estimates emission factors of pollutants and EVs do not have emissions). However, EMFAC does show the anticipated amount of County-wide VMT that will be provided by EVs. Per EMFAC 2017, County-wide VMT for 2035 is 45,415,211 miles per day and EV VMT is 1,997,750 miles per day, or 4.40 percent of the total. Thus, the EMFAC 2017 GHG emission factor for calendar year 2035 was reduced by 4.40 percent as shown in Table 4-1.

**Table 4-1**

**Excess GHG Emissions Needed to be Offset to Meet SB 743 Target Levels**

	<b>Project-Related VMT Scenario</b>	<b>Project-Related VMT Scenario</b>	<b>Cumulative VMT Scenario</b>	<b>Cumulative VMT Scenario</b>
<b>Category:</b>	<b>Resident</b>	<b>Employee</b>	<b>Resident</b>	<b>Employee</b>
Jackson Township Daily VMT after Transportation Mitigation (miles per day) From Appendix C, Line 21	308,086	129,384	233,526	111,383
Jackson Township Annual VMT after Transportation Mitigation (miles per year) From Appendix C, Line 23	98,587,554	41,403,008	74,728,466	35,642,590
Jackson Township Daily VMT if SB 743 were Met (miles per day) From Appendix C, Line 25	221,874	95,143	213,116	85,804
Jackson Township Annual VMT if SB 743 were Met (miles per year) From Appendix C, Line 26	70,999,808	30,445,792	68,197,184	27,457,248
CO <sub>2</sub> e Emission Factor for 2035 from EMFAC Light Duty Vehicles (grams per mile) From Appendix E	212.87	212.87	212.87	212.87
Percent EMFAC EV Penetration for 2035	4.4%	4.4%	4.4%	4.4%
Adjusted CO <sub>2</sub> e Emission Factor for 2035 Accounting for EV Penetration (grams/mile)	203.50	203.50	203.50	203.50
Transportation CO <sub>2</sub> e Emissions Greater than SB 743 (MT/yr) From Appendix C, Line 35	5,614	2,230	1,329	1,666
Construction Emissions (MT/yr) From Appendix C, Line 50	1,265	1,265	1,265	1,265
<b>Total Emissions to be Offset to Meet SB 743 (MT/yr)</b> From Appendix C, Line 35 + 50	<b>6,879</b>	<b>3,495</b>	<b>2,594</b>	<b>2,931</b>

The excess emissions in Table 4-1 will be offset through a combination of creditable non-transportation mitigation included in the AQMP and additional mitigation specifically for SB 743 as described below.

#### 4.2 NON-TRANSPORTATION GHG EMISSION REDUCTIONS INCLUDED IN THE AQMP

In order to achieve the required NO<sub>x</sub> and ROG emission reductions for the AQMP, the AQMP included five non-transportation mitigation measures: high efficacy public outdoor lighting, energy efficient appliances, residential electric hot water heaters, public electric vehicle charging stations, and residential pre-wiring for EV charging. The residential pre-wiring included in the AQMP was for 100 percent of the single-family residences and 10 percent of the multi-family residences. For the residences, the AQMP only committed to pre-wiring, not actual charging stations for the residences. However, the AQMP committed to actual chargers for the public charging stations.

Table 4-2 shows the AQMP emission reductions and if those reductions can be credited for SB 743. The values in Table 5-2 come from the AQMP dated May 30, 2019 Tables 5-10 and 5-11.

**Table 4-2  
Additional Non-VMT GHG Reductions from the Jackson Township Alternative 2 AQMP**

	<b>Project-Related VMT Scenario GHG Reductions (MT/yr)</b>	<b>Cumulative VMT Scenario GHG Reductions (MT/yr)</b>	<b>SB 743 Credit?</b>
High Efficacy Public Outdoor Lighting	(124)	(124)	Yes, 61.4% Residential 38.6% Employee
Energy Efficient Appliances	(34)	(34)	Yes, Residential Only
Energy Efficient Boilers	(107)	(107)	No
Residential Electric Hot Water Heaters	(1,938)	(1,938)	No
480 Public Electric Vehicle Charging Stations (actual charging stations for commercial, office, retail, schools)	(4,022)	(4,022)	Yes, Both Residential and Employee
Residential Electric Vehicle Pre-wiring for all single-family housing and 10% of multi-family housing	(3,171)	(2,501)	No
<b>Total Creditable GHG Reductions in the AQMP for Residential Metric (lighting, appliances, and public charging)</b>	<b>- 4,132</b>	<b>- 4,132</b>	<b>Yes</b>

	<b>Project-Related VMT Scenario GHG Reductions (MT/yr)</b>	<b>Cumulative VMT Scenario GHG Reductions (MT/yr)</b>	<b>SB 743 Credit?</b>
<b>Total Creditable GHG Reductions in the AQMP for Employee Metric (lighting and public charging)</b>	<b>- 4,070</b>	<b>- 4,070</b>	<b>Yes</b>

Source: May 2019 AQMP, Tables 5-10 and 5-11

Energy Efficient Boilers and Residential Electric Hot Water Heater GHG reductions that were in the AQMP cannot be credited for SB 743 because BMP 1 eliminates natural gas. Residential EV Pre-wiring contained in the AQMP cannot be credited because BMP 2 requires pre-wiring at 100 percent of single-family housing and 20 percent of multi-family housing. Accordingly, only the benefit of High Efficacy Public Outdoor Lighting, Energy Efficient Appliances, and Public EV Charging stations detailed in the AQMP can be credited.

The High Efficacy Public Lighting credit was applied 61.4 percent to the Residential metric and 38.6 percent to the Employee metric because public lighting is installed at both residential and commercial facilities. The percentage ratio was determined from the amount of electricity used by Residential versus Commercial facilities.<sup>5</sup> However, the Energy Efficient Appliances credit was applied only to the Residential metric because the appliances will be residential. The Public EV Charging Station credit was applied to both the Residential and Employee metrics because both residents and employees will use the public stations. The number of Public EV Charging stations committed to in the AQMP is 480 stations, serving two parking spaces each.

The total creditable GHG reductions from the AQMP are, therefore, 4,132 MT/yr GHG reduction for Residential and 4,070 MT/yr Employee GHG Reduction for both the Project-Related and Cumulative VMT scenarios.

#### 4.3 NON-TRANSPORTATION GHG EMISSION REDUCTIONS IN ADDITION TO THE AQMP

In addition to the AQMP commitments, the applicant is also committing to pre-wire an additional 57 percent of the multi-family residential parking spaces (for a total of 77 percent) and installing

<sup>5</sup> Appendix E-2 and E-4, Pages 24 – 26, of the May 2019 AQMP shows the electricity usage for each land use category. The same amount of electricity is used for the Project-Related and Cumulative VMT scenarios. High school and elementary school electricity usage was attributed to the Residential metric because most of the VMT associated with schools is student-related versus employees. Total electricity usage was  $25.9 \times 10^6$  kilowatt-hours (kWh), residential was  $15.9 \times 10^6$  kWh, commercial was  $10.0 \times 10^6$  kWh, or a split of 61.4% to 38.6%.

an additional 210 public EV charging stations (for a total of 690 stations serving two parking spaces each).

The GHG reductions arising from the additional mitigation are shown in Appendix E and repeated in Table 4-3. The calculations in Appendix E follow the same methodology used in the AQMP, but only represent the additional commitments beyond the AQMP and BMP 2 (i.e., the extra 57 percent of multi-family pre-wiring and the additional 210 public EV charging stations). The GHG emission factor used for the calculations in Appendix F is different than the emission factor used to calculate the excess emissions shown in Table 4-1. This is because the Table 4-1 emissions are for light duty commute vehicles only (both gasoline and diesel-fueled), whereas the AQMP emission factor is for gasoline-fueled vehicles only but includes some light-heavy duty and medium duty gasoline-fueled vehicles as those vehicles could be charging at public stations.

**Table 4-3**  
**GHG Reductions from Additional Mitigation Beyond the AQMP and BMP 2**  
**for Jackson Township Alternative 2**

	<b>Project-Related VMT Scenario GHG Reductions (MT/yr)</b>	<b>Cumulative VMT Scenario GHG Reductions (MT/yr)</b>	<b>SB 743 Credit?</b>
Additional 57% of multi-family housing pre-wiring	(989)	(780)	Yes
Additional 210 Public EV Charging Stations	(1,760)	(1,760)	Yes
<b>Total Creditable GHG Reductions in Addition to the AQMP and BMP 2</b> (Sum of pre-wiring and public charging stations)	<b>- 2,749</b>	<b>- 2,540</b>	<b>Yes</b>

Source: Appendix E.

#### 4.4 SUMMARY OF EMISSION REDUCTIONS

Table 4-4 summarizes the emission reductions described in Sections 4.2 and 4.3 compared to the required equivalent emission reductions needed to meet SB 743 target levels. The table shows that the creditable AQMP emission reductions plus the emission reductions resulting from additional mitigation more than offset the SB 743 excesses.

**Table 4-4**

**Excess GHG Emissions Needed to be Offset to Meet SB 743 Target levels**

	<b>Project-Related VMT Scenario</b>	<b>Project-Related VMT Scenario</b>	<b>Cumulative VMT Scenario</b>	<b>Cumulative VMT Scenario</b>
<b>Category:</b>	<b>Resident</b>	<b>Employee</b>	<b>Resident</b>	<b>Employee</b>
<b>Total Emissions Needed to be Offset to Meet SB 743 including Operations and Construction (MT/yr)</b> From Appendix C, Line 35 + 50	<b>6,879</b>	<b>3,495</b>	<b>2,594</b>	<b>2,931</b>
Creditable AQMP Emission Reductions (MT/yr) From Table 4-2	(4,132)	(4,070)	(4,132)	(4,070)
Emission Reductions Beyond the AQMP and BMP 2 (additional pre-wiring and additional public EV charging stations) (MT/yr) From Appendix C, Line 58	(2,749)	(2,749)	(2,540)	(2,540)
Total Non-Transportation Reductions (MT/yr) (Sum of AQMP and Additional Reductions)	(6,881)	(6,819)	(6,672)	(6,610)
<b>Net CO<sub>2</sub>e Emissions After Reductions (MT/yr)</b>	<b>- 2</b>	<b>- 3,324</b>	<b>- 4,078</b>	<b>- 3,679</b>

## 5 REDUCED GHG EMISSIONS COMPARED TO PREVIOUSLY USED GHG THRESHOLDS

The May 2019 AQMP/GHGRP presented GHG emissions compared to adopted 2020 and draft extrapolated 2035 GHG significance thresholds that were previously used (prior to SB 743 draft thresholds) by PER to evaluate projects. The draft extrapolated thresholds are shown in Table 5-1 and the method used to derive those thresholds was discussed in the May 2019 AQMP/GHGRP Section 5.2.

**Table 5-1  
Adopted and Draft Sacramento County GHG Emission Thresholds**

<b>Emission Source</b>	<b>2020 Adopted Thresholds</b>	<b>2030 Draft Thresholds</b>	<b>2035 Extrapolated Draft Thresholds</b>	<b>Threshold Units</b>
Residential Energy	1.33	0.78	0.65	MT/capita
Commercial & Industrial Energy	7.87	4.59	3.81	MT/1000 sf
Transportation	2.67	1.57	1.30	MT/capita
Trucks	0.10	0.08	0.07	MT/100 VMT

In the May 2019 AQMP/GHGRP Tables 5-12 and 5-13 showed GHG emissions for Alternative 2 and how the GHG emissions compared to the 2035 draft extrapolated thresholds when benefits of the AQMP-committed mitigation were included. The tables are repeated here as Tables 5-2 and 5-3, however, the GHG emissions were changed to reflect this Revision 3a to the GHGRP.

In Tables 5-2 and 5-3 the following changes to the May 2019 AQMP Tables 5-10 and 5-11 were made:

- No changes were made to the GHG emissions for the Residential Energy, Residential Energy Plus Schools, and Commercial/Industrial Energy thresholds. Although the new BMP 1 eliminates natural gas infrastructure, at the time the draft extrapolated 2035 thresholds were developed, natural gas was allowed.
- For the Transportation threshold, emissions were calculated from the un-mitigated transportation GHG emissions shown in the May 2019 AQMP Appendix D-2: 35,957 MT/yr for Alternative 2 Project-Related VMT and 28,405 MT/yr for Alternative 2 Cumulative VMT.

These emissions were then decreased to reflect both transportation and non-transportation emission reductions as follows:

- Decrease both Project-Related and Cumulative scenario emissions by 3.625 percent for transportation-related mitigation, Table 2-1.
- Decrease both Project-Related and Cumulative scenario emissions by 4.4 percent to reflect electric vehicle penetration (discussed in Section 5.1 herein), which was not accounted for in the May 2019 AQMP.
- Decrease the Project-Related and Cumulative scenarios by 4,132 MT/yr and 4,070 MT/yr, respectively, for the currently creditable additional non-transportation mitigation contained in the AQMP, Table 4-2.
- Decrease Project-Related and Cumulative VMT scenario emissions by 3,171 MT/yr and 2,501 MT/yr, respectively, to reflect the previously creditable single/multi-family pre-wiring, shown in Table 4-2. Although that mitigation is no longer creditable because of BMP 2, when the draft extrapolated 2035 thresholds were developed, that type of mitigation was creditable.
- Decrease Project-Related and Cumulative VMT scenario emissions by 2,749 MT/yr and 2,540 MT/yr, respectively, to reflect the additional non-transportation mitigation contained in this Revision 3a to the GHGRP, Table 4-3.
- Decrease the resultant emissions (after the above reductions were applied) by 7 percent because the draft extrapolated thresholds consider truck emissions separately .
- For the Truck threshold, emissions were assumed to be 7 percent of the mitigated transportation emissions. As stated in the May 2019 AQMP, the County GHG Thresholds were derived based on an assumption by PER that 7 percent of the County VMT is due to trucks. Therefore, for purposes of calculating the GHG emission thresholds, it was assumed that 7 percent of the total VMT at Jackson Township would be due to trucks.

The results are shown in Tables 5-2 and 5-3.



**Table 5-2**  
**Alternative 2 Project-Related VMT Scenario GHG Emission Thresholds**  
**After All Mitigation**

Emission Sector	Total CO <sub>2</sub> e (MT/yr)	Persons/ Commercial Square Footage/ Truck VMT/100	Alternative 2 Project-Related VMT Emissions	Sacramento County Draft Extrapolated 2035 Thresholds	Threshold Units
Residential Energy	5,987	14,597*	0.41	0.65	MT/capita
Residential Energy Plus Schools	6,335	14,597*	0.43	0.65	MT/capita
Commercial/Industrial Energy	1,993	2,022,100	0.99	3.81	MT/Kft <sup>2</sup>
Transportation	21,409	14,597*	1.47	1.30	MT/capita
Trucks	1,611	79,257.6	0.02	0.07	MT/100 VMT

\* The May 2019 AQMP/GHGRP used 15,022 persons, but the DKS memos and VMT were based on 14,597 persons. Thus, the more conservative 14,597 value is used.  
 MT/Kft<sup>2</sup> = Metric tons per 1000 square feet

**Table 5-3**  
**Alternative 2 Cumulative VMT Scenario GHG Emission Thresholds**  
**After All Mitigation**

Emission Sector	Total CO <sub>2</sub> e (MT/yr)	Persons/ Commercial Square Footage/ Truck VMT/100	Alternative 2 Cumulative VMT Emissions	Sacramento County Draft Extrapolated 2035 Thresholds	Threshold Units
Residential Energy	5,987	14,597*	0.41	0.65	MT/capita
Residential Energy Plus Schools	6,335	14,597*	0.43	0.65	MT/capita
Commercial/Industrial Energy	1,993	2,022,100	0.99	3.81	MT/Kft <sup>2</sup>
Transportation	15,823	14,597*	1.08	1.30	MT/capita
Trucks	1,191	63,508.4	0.02	0.07	MT/100 VMT

\* The May 2019 AQMP/GHGRP used 15,022 persons, but the DKS memos and VMT were based on 14,597 persons. Thus, the more conservative 14,597 value is used.  
 MT/Kft<sup>2</sup> = Metric tons per 1000 square feet

In summary, the large number of design features incorporated into the Jackson Township Specific Plan result in a large reduction in GHG and, except for per capita transportation for the Project-Related VMT scenario, the proposed project meets the Sacramento County draft extrapolated 2035 GHG thresholds. It is not surprising that the draft extrapolated 2035 per capita GHG transportation threshold for the Project-Related scenario is not met because the thresholds are based on the California statewide emission reduction target in 2050 of 80 percent less than 1990 emissions. In order to meet that target, there will have to be a very large electric vehicle

penetration and/or other transportation changes that are not included in the emission factors used to calculate emissions.

Recognizing that the GHG issue is global based on total GHG emissions regardless of sector, PER indicated that excess emissions from one sector can be used to offset GHG emissions from other sectors in order to meet the individual GHG Thresholds. Tables 5-4 and 5-5 show that when the excess reductions from the other sectors are applied, the total GHG emissions are much less than the Thresholds.

**Table 5-4  
Alternative 2 Project-Related VMT Excess GHG Emission Reductions  
After All Mitigation**

<b>Emission Sector</b>	<b>Alternative 2 Project Related VMT Emissions CO<sub>2</sub>e (MT/yr)</b>	<b>Allowed Emissions to Meet GHG Threshold (MT/yr)</b>	<b>CO<sub>2</sub>e Emission Reductions that are Greater (or less) than Needed to Meet the Draft Extrapolated 2035 GHG Thresholds (MT/yr)</b>
Residential Energy	5,987	9,488	3,501
Commercial/Industrial Energy	1,993	7,704	5,711
Transportation	21,409	18,976	(2,433)
<b>Net Total</b>			<b>6,779</b>

Note 1: Truck and Residential Plus Schools is not shown in the Table because that would be double counting reductions from Transportation and Residential alone.

Note 2: Allowed emissions were calculated by multiplying the draft extrapolated 2035 thresholds times the per capita values shown in Table 6-2.

**Table 5-5**  
**Alternative 2 Cumulative VMT Excess GHG Emission Reductions**  
**After All Mitigation**

<b>Emission Sector</b>	<b>Alternative 2 Cumulative VMT Emissions CO<sub>2</sub>e (MT/yr)</b>	<b>Allowed Emissions to Meet GHG Threshold (MT/yr)</b>	<b>CO<sub>2</sub>e Emission Reductions that are Greater (or less) than Needed to Meet the Draft Extrapolated 2035 GHG Thresholds (MT/yr)</b>
Residential Energy	5,987	9,488	3,501
Commercial/Industrial Energy	1,993	7,704	5,711
Transportation	15,823	18,976	3,153
<b>Net Total</b>			<b>12,365</b>

Note 1: Truck and Residential Plus Schools is not shown in the Table because that would be double counting reductions from Transportation and Residential alone.

Note 2: Allowed emissions were calculated by multiplying the draft extrapolated 2035 thresholds times the per capita values shown in Table 6-2.

For the Project-Related VMT scenario, if the emission reductions from the non-Transportation Sector that are greater than needed to meet the non-Transportation draft extrapolated 2035 thresholds were applied to the Transportation sector, the per capita Transportation emissions would be 0.84 MT/capita (21,409 MT/yr Transportation minus 5,711 Commercial minus 3,501 Residential MT excess reductions divided by 14,597 persons equals 0.84 MT/capita); which is much less than the County 1.30 MT/capita draft extrapolated 2035 Transportation Threshold.

As depicted in Tables 5-4 and 5-5, the proposed Jackson Township mitigation program that yields GHG emission reductions greater than required by the proposed County and adopted SMAQMD rules for GHG by 2 to 4,078 MT/yr (Table 4-4) will also result in GHG emission reductions greater than the previous County draft extrapolated 2035 thresholds by 6,779 MT/yr for the Project-Related VMT scenario and 12,365 MT/yr for the Cumulative VMT scenario.

## 6 ADDITIONAL NO<sub>x</sub> AND ROG REDUCTIONS RESULTING FROM GHG MITIGATION

Appendix F shows the additional NO<sub>x</sub> and ROG emissions beyond the AQMP (only) that will occur when the GHG mitigation detailed herein is implemented. Appendix F shows the same reductions as Appendix E for the additional 210 public charging stations. However, for the multi-family pre-wiring emission reductions, Appendix F is different because the AQMP was based on 10 percent multi-family EV pre-wiring, but BMP 2 is based on 20 percent EV pre-wiring.

The NO<sub>x</sub> and ROG reductions in addition to the AQMP are shown in Tables 6-1 and 6-2.

**Table 6-1**

**Additional NO<sub>x</sub> and ROG Emission Reductions Beyond the AQMP  
for Alternative 2 Project-Related VMT**

<b>Emission Sector</b>	<b>Emission Reductions from Additional 210 Public Charging Stations (tons per year)</b>	<b>Emission Reductions from Additional 67% Multi-Family Pre-wiring (tons per year)</b>
NO <sub>x</sub>	0.27	2.59
ROG	0.14	0.49

**Table 6-2**

**Additional NO<sub>x</sub> and ROG Emission Reductions Beyond the AQMP  
for Alternative 2 Cumulative VMT**

<b>Emission Sector</b>	<b>Emission Reductions from Additional 210 Public Charging Stations (tons per year)</b>	<b>Emission Reductions from Additional 67% Multi-Family Pre-wiring (tons per year)</b>
NO <sub>x</sub>	0.27	2.21
ROG	0.14	0.42

## APPENDIX A

### DKS MEMORANDUM DATED OCTOBER 16, 2020 THAT ANALYZED SB 743 VMT

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Note that in a telephone conference with the SMAQMD on December 23, 2020, DKS and SMAQMD concurred that CAPCOA recommends the aggregated effects of multiple VMT reducing measures not exceed 15% in suburban locations, rather than the 30% value stated on Page 9 of the October 16, 2020 Memorandum shown herein.



## MEMORANDUM

DATE: October 16, 2020

TO: Todd Smith | Sacramento County

FROM: Benjamin Rady and David Tokarski | DKS Associates

SUBJECT: Jackson Township Specific Plan Revised VMT Analysis

Project # 13049-000

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Pursuant to Senate Bill (SB) 743, transportation impacts under CEQA may no longer be measured with automobile delay and level of service (LOS) post July 1, 2020. CEQA guidelines (Section 15064.3) state that vehicle miles traveled (VMT) is generally the most appropriate metric for determining transportation related impacts under CEQA. While VMT was previously calculated for the proposed Jackson Township development traffic impact analysis, the applied methodologies were not consistent with recently adopted guidance from Sacramento County. The purpose of this technical memorandum is to document revised VMT calculations that are consistent with the County's Transportation Analysis Guidelines published July 1, 2020.

VMT metrics associated with the residential components (VMT per capita) and commercial (office) components (VMT per employee) of the project are summarized herein. Retail components are not subject to efficiency metrics (VMT per employee), but rather net change in VMT. This memorandum also summarizes the County's thresholds, which are based on regional averages calculated from the travel demand model. The project's VMT-reducing features and mitigations are also documented.

The Governor's Office of Planning and Research (OPR) VMT Guidelines do not require VMT analysis as a measure of significance for Draft EIR documents published prior to July 1, 2020. As the Jackson Township Draft EIR was published in advance of this date, the analysis presented in this Memorandum is intended to be informational.

### VMT REDUCTIONS ASSUMED AS PART OF THE PROJECT

Residential VMT per capita and office VMT per employee associated with the Jackson Township Alternative 2 development exceed the County's VMT thresholds, which are defined as 85 percent of the respective regional averages. Exceedance of either of these metrics indicates a transportation impact for projects subject to CEQA after July 1, 2020. The project has identified feasible VMT reduction measures that substantially reduce the project's impact. The VMT mitigation strategies described below have been defined as part of the project and include strategies identified in the

County's Transportation Analysis Guidelines and the California Air Pollution Control Officers Association (CAPCOA) Quantifying Greenhouse Gas Mitigation Measures report.

## MODELED VMT REDUCTION MEASURES

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The Jackson Township project has several VMT reduction measures that have been incorporated into the project design or are required by Jackson Township's Air Quality Mitigation Plan, GHG Reduction Plan, or the project's Development Agreement. These VMT reducing features are already reflected in the "with-project" scenario as part of the project baseline and will not be double-counted when determining the effectiveness of additional VMT mitigation strategies.

The following project VMT reductions from the CAPCOA *Quantifying Greenhouse Gas Mitigation Measures* report are assumed as part of the project description and are included in the model (numbering is presented for informational purposes):

- Project is located in a suburban center within approximately 10 miles of the Sacramento downtown central business district and less than 5 miles from other existing high-density commercial/job center areas (LUT-2 and LUT-3).
- Project is located adjacent to other planned developments such that single-use trips are minimized, i.e., there are more pass-by and diverted trips (LUT-3 and LUT-4).
- Project provides a compact mix of land uses in close proximity to each other with a highly connected street and trail network (LUT-3).
- Project design is for high and medium density housing for over half of the total project dwelling units (LUT-1).
- Housing density is better than 9.5 dwelling units per acre (LUT-1).
- Approximately 15 percent of the total commercial square footage is dedicated to a mixed-use facility that combines residences and commercial/retail uses (LUT-3).
- Most residential units are within 1,320 feet (one-quarter mile) of a neighborhood park, open space, school, and/or bicycle/pedestrian trail (LUT-3).
- Most residential units are less than one-half mile from shopping and services (LUT-4).
- Project design includes locating at least four schools within the project boundaries such that most students can walk to a local school (LUT-3 and LUT-4).
- Project design includes at least eight parks within the project boundaries such that residents can walk/bike to enjoy the parks (LUT -3 and LUT-4).
- Project design is based on a network of streets in a grid pattern (LUT-8).
- Project design includes access to high frequency bus service that connects to the Watt/Manlove light rail station (LUT-5).
- Bus routes are signalized in order to avoid traffic delays (TST-4).
- Project includes an on-site transit center and park and ride facilities along the designated transit route of Jackson Highway (LUT-5, TST-1, TST-2, TST-3, and RPT-4).
- Project funding and design will result in bus headways of 15 minutes or better (TST-1, TST-4, RPT-2, and RPT-3).
- Project includes assessments for regional transportation improvements (RPT-3).

## OFF-MODEL VMT REDUCTION MEASURES

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In addition to the CAPCOA strategies listed above, several additional VMT reducing features have been assumed as part of the project definition/design. These project features are not amenable to quantification through travel demand modeling. Although these features may reduce project VMT, they have not been incorporated in the VMT calculations or considered as mitigation for the project.

The following CAPCOA reduction measures are assumed as part of the project design or required by the Air Quality Mitigation Plan, the GHG Reduction Plan, or the project's Development Agreement, but are not included in the "with project" models:

- Project includes below market rate housing (LUT-6).
- Project design promotes a multi-modal system that makes public transit, walking, and bicycling viable and attractive travel choices for residents and employees. Features include:
  - Adequate bike parking at non-residential locations, including the transit center and park and ride locations (SDT-6)
  - Showers/lockers and other end of trip facilities at non-residential buildings (SDT-6)
  - Long-term bike parking facilities (SDT-6)
- Project includes an extensive pedestrian path and trail system that is convenient and accessible from homes, school, parks, employment and shopping (LUT-8).
- Pedestrian and bike paths minimize any barriers to pedestrian/bicycle use, e.g., fences, berms and other impediments are eliminated where possible (LUT-8).
- Project subsidizes bus rapid transit lanes on Jackson Highway (TST-1, TST-4, and RPT-3).
- Project includes joining a Transportation Management Association (TMA) funded through assessments (RPT-3). Although the project will include a TMA, no VMT reduction from the TMA has been calculated or included in the Traffic Study. As part of the TMA, the Project may be subject to the following list of potential reduction measures.
  - Transit shuttles. No additional CAPCOA estimated VMT reduction as these improvements are already included in the regional travel demand model.
  - Subsidies. The TMA that includes the Project is assumed to not include subsidies.
  - Transportation plans.
  - Guaranteed ride home program.
  - Education programs.
  - Infrastructure support.

This document acknowledges that the above off-model VMT reduction measures have been computed using CAPCOA in the Kimley-Horn memorandum dated September 8, 2020 in **Attachment A**.

## VMT ANALYSIS

Following the County's Transportation Analysis Guidelines, the applicable metrics are VMT per capita for residential land uses and VMT per employee for commercial (office) and industrial uses. For Retail, to the OPR recommended efficiency metric is total net change in VMT. The project's VMT



per capita and VMT per employee are compared to a threshold of 85 percent of the regional average for each metric. Regional averages are calculated in this memorandum to be consistent with SACOG's SACSIM15 travel demand model, which was used for all of the project's transportation analysis.

County guidelines require that each land use be analyzed separately when identifying impacts. The residential, employment, and retail land uses of the project are discussed below.

### **RESIDENTIAL COMPONENTS (VMT PER CAPITA)**

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For residential land uses, VMT per capita is the operative metric for CEQA impact analysis. It includes all vehicle tours (both work/commute vehicle tours and non-work vehicle tours) that start and end at a residence. Home-based tours reflect travel for work, school, recreation, and shopping, but exclude travel that begins and ends away from the home location.

An example of a work/commute vehicle tour that is captured in the VMT per capita calculation may start at a residence, include a stop to drop a child off at school before proceeding to the work site, and a return to the residence with a stop to pick up dinner. A midday subtour beginning and ending at the work site to eat lunch at a restaurant would not be included. A non-work vehicle tour starts that begins and ends at home may also include intermediate stops. VMT from these tours must include full mileage of the entire tour, including all stops.

VMT per capita is calculated by first combining VMT from home-based tours generated throughout the day at a residential unit. The home-based VMT for all residential units in the project area is summed and divided by the total resident population of the project, resulting in the project's VMT per capita.

Table 3-3 of the County's Transportation Analysis Guidelines identifies the threshold of significance as 85 percent of the baseline (no project) regional average VMT per capita. If the regional VMT per capita from the residential component of the "with-project" model runs exceeds this threshold, the project is determined to require VMT reduction.

### **OFFICE COMPONENTS (VMT PER EMPLOYEE)**

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For non-residential land uses, VMT per employee is used to evaluate commercial (office) and industrial VMT. It includes all commute vehicle tours that begin and end at an employment location. A commute tour may include intermediate stops. An example commute tour begins at a residence, includes a stop to drop a child off at school, includes a stop for breakfast, and ends at a place of work.

VMT for commute tours are summed to the employment location of each tour. The commute VMT for all employment locations in the project area is summed and divided by the total employment of the plan area.

All office land uses in Jackson Township are included in a single transportation analysis zone (TAZ). As such, office VMT per employee is calculated based on results from that TAZ. There are no screening criteria applicable to the office land uses in Jackson Township.

Results from the “with-project” model runs were compared to the baseline (no project) results to determine if the project’s office component exceeds 85 percent of the regional average VMT per Employee, per Table 3-3 of the County’s Transportation Analysis Guidelines.

## RETAIL VMT ASSESSMENT

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The County distinguishes between local and regional serving retail land uses. Local serving retail is defined as having up to 200,000 square feet of total gross floor area in growth areas, or with a market area of 3 miles or less. Some retail land use designations within Jackson Township were determined to fit within the local serving retail definition and could be screened from further VMT analysis. County staff were consulted and confirmed that two parcels in retail designated TAZs in Jackson Township might potentially be considered regional serving. As such, the likely net VMT change resulting from the remaining two retail parcels were qualitatively assessed. This qualitative assessment is described below.

### PROXIMITY TO COMPETING REGIONAL RETAIL SITES

The applicant team identified all regional serving name brand retail stores within a ten-mile radius of the Jackson Township specific plan site. The two regional retail sites (planned to be a hardware store and a discount superstore) are located midway between competing name brand sites, providing intervening opportunities for potential customers. All but one competing retail site is located further than five linear miles (as the crow flies) from the project. Competing name brand site locations within ten-miles of the project site are provided in **Attachment B**.

As the Jackson Township Alternative 2 regional retail sites would effectively fill the gap of like retail purposes in the area, it is expected that vehicle trip-tours produced from currently underserved areas, such as the Rancho Murieta and Independence at Mather communities, would be significantly shortened. Trip lengths from these sites would be further reduced with the completion of the neighboring Mather South, NewBridge, and West Jackson specific plan areas.

Based on this qualitative assessment, the Jackson Township Alternative 2 regional retail sites are considered at minimum to be VMT neutral. Given that these sites represent intervening opportunities that will serve to shift travel demand from more distant locations suggests that a net decrease in VMT can be presumed.

## VMT ANALYSIS RESULTS

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**Table 1** shows the results for SACSIM15 VMT per capita and VMT per employee with- and no-project under Existing and CEQA Cumulative conditions. Any “with-project” result over 85% may be considered an impact per the County’s Transportation Analysis Guidelines.

**TABLE 1: VMT ANALYSIS RESULTS**

	VMT PER CAPITA (% REGIONAL AVG.)	RETAIL: QUALITATIVE ASSESSMENT	OFFICE VMT PER EMPLOYEE (% REGIONAL AVG.)
EXISTING REGIONAL AVERAGE	17.9 (100%)	N/A	19.1 (100%)
THRESHOLD OF SIGNIFICANCE	15.2 (85%)	Net increase in VMT	16.3 (85%)
EXISTING PLUS JACKSON TOWNSHIP ALTERNATIVE 2	<b>21.9 (122%)</b>	Presumed net decrease	<b>23.0 (121%)</b>
CEQA CUMULATIVE REGION	17.2 (100%)	N/A	17.3 (100%)
CEQA CUMULATIVE THRESHOLD OF SIGNIFICANCE	14.6 (85%)	Net increase to VMT	14.7 (85%)
CEQA CUMULATIVE JACKSON TOWNSHIP ALTERNATIVE 2	<b>16.6 (97%)</b>	Presumed net decrease	<b>19.8 (114%)</b>

Note: Bold cells exceed County standard of significance (greater than 85% of regional average).

Source: DKS Associates, 2020.

Results indicate that the Jackson Township Alternative 2 project VMT per capita and VMT per employee exceed the County’s draft significance threshold under both the Existing and CEQA Cumulative scenarios. The project is expected to generate VMT per capita and VMT per employee greater than the regional average threshold.

## MITIGATION MEASURES

Even accounting for the VMT reducing features of the project, project VMT exceeds the County’s thresholds of significance and would be considered an impact if the draft environmental impact report were published after July 1, 2020. This section presents an analysis of the effectiveness of several additional measures that could be implemented to reduce VMT to the most feasible extent. These additional measures include:

- the enhanced transit program mitigation measure previously identified in the published DEIR,
- participation in Transportation Demand Management employer-based trip reduction services, and
- participation in an active benefit zone of County Service Area Number 10 to implement transportation-related services to reduce vehicle trips.

## ENHANCED TRANSIT PROGRAM FOR JACKSON TOWNSHIP

The Applicant will be implementing a program to provide a non-revocable funding mechanism that would pay for bus and/or shuttle operations between the project and the Manlove Light Rail Station. The non-revocable funding mechanism would be administered by the County and would

provide residents and employees of Jackson Township with transit passes that would access the entire Regional Transit system. The VMT reduction from this program has been modeled in SACSIM15 and would result in a VMT reduction of 0.6 percent.

## **TRIP REDUCTION SERVICES**

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Trip Reduction Services (TRS) are an important part of the Jackson Township Specific Plan (JTSP) and compliance with the County General Plan Policy LU-120. The Urban Services Plan (USP) identifies the costs of implementing and operating the TRS necessary to meet these goals and policies and recommends a financing mechanism for the identified services for approval by the County. The Jackson Township project may include additional services that are above the required services and include and finance said services with the same program.

Jackson Township shall cooperate with the County in establishing a special financing mechanism for the project area to fund the TRS described in, and consistent with, the Approvals for the JTSP, the USP, and the PFFP. Such financing mechanism shall be established and the resulting annual service charge, fee or tax or other mechanism shall be imposed on each residential unit and non-residential unit to fund all aspects of the TRS, including, but not limited to, capital, maintenance, and operational costs. This mechanism shall be approved prior to the recordation of the first final small lot subdivision map or issuance of any building permit within the project area, whichever may occur first. Grading permits may be issued within the project area prior to implementation of the financing mechanism.

The TRS shall be provided to the residents and non-residential uses within the project area. TRS shall be phased as development occurs and supported by transit funds generated from the project as it builds out such that services are available to establish trip reduction behavior within JTSP phases. TRS may include, but shall not be limited to, including membership in a transportation management association, commute trip reduction, transit services, transit improvements, rideshare matching and vanpool coordination, commuter financial incentives, telework and/or flextime support, guaranteed ride home programs, parking management, shared parking coordination, special event transport management, transportation access guides, wayfinding, and multi-modal navigation tools.

The County acknowledges that recent advancements in technology and transportation network companies have occurred subsequent to the adoption of the 2030 General Plan policies requiring provision of transit service. The goal of TRS is to improve air quality and reduce greenhouse gas emissions by encouraging alternate modes of travel. Alternatives to the TRS may be considered by the County if it can be demonstrated that an equivalent reduction in vehicle miles traveled or transportation mode split, as documented in the JTSP transportation impact study, can be achieved.

## **CSA 10 ANNEXATION INTO OR FORMATION OF BENEFIT ZONE**

County Service Areas are the County's proposed financing mechanisms for TRS'. County Service Area Number 10 (CSA 10) was established to mitigate air quality impacts of new development by implementing transportation-related services that would reduce vehicle trips. CSA 10 is coextensive with the portions of the unincorporated county within the urban services boundary (USB), with the exception of Cordova Hills Special Planning Area, which is within County Service Area Number 13 (CSA 13).

Benefit Zone No. 3 (Zone 3) was formed in June 2006 to include the North Vineyard Station Specific Plan Area and is presently the only active CSA 10 benefit zone. Annexations to Zone 3 occurred in December 2013 and August 2015 to include the Florin Vineyard Community Plan and Wildhawk North development areas. Rezone Condition of Approval No. 89 for Easton requires annexation to an active zone of CSA 10. In March 2020, Board of Supervisors approved a proposal to create Benefit Zone No. 4 (Zone 4) to encompass Easton Place and Glenborough at Easton, which will take effect after approval of the property owners.

The formation of a benefit zone requires an Engineer's Report describing the services to be funded and appropriate service charges. Service charges are based on dwelling unit equivalent (DUE) rates for both residential and non-residential development and assessed annually with the collection of property taxes. The services to be provided by CSA 10 for an active benefit zone are intended to serve exclusively the users associated with properties within the benefit zone. Services may be contracted through a transportation management association (TMA) and may include:

- Transit Shuttles — shuttles for residents and/or employees between residential areas, employment centers, shopping and service centers and light rail stations and/or other public transit options;
- Guaranteed Rides Home — free taxi rides or rental cars for ride sharers in case of an emergency;
- Subsidies — financial assistance to encourage residents and employees to use transit or other alternative transportation measures, such as alternative fuel vehicles;
- Transportation Plans — plans which guide employers and resident groups on the implementation of trip reduction programs such as ride share matching and vanpools;
- Education Programs — various programs such as education of transit options, home office set up, alternative commute opportunities, and walking/bicycling programs for schoolchildren;
- Infrastructure Support — additional bike racks and lockers, transportation alternative and ride share informational boards/kiosks, transit facilities;
- Transportation Coordinator Training and Support — instruction in mobility (transportation alternatives) for residential groups and work site coordinators.

The Jackson Township project proposes to provide many of the above listed services as a mitigation measure, through the Air Quality Mitigation Plan, the GHG Reduction Plan, or the Development Agreement. Funding would be provided through annexation into, or formation of, an active benefit zone of CSA 10 (or similar non-revocable funding mechanism).

It should be noted that many of the services provided by CSA 10 overlap with VMT mitigation strategies in the SB 743 technical advisories and implementation guidance from OPR. This is because VMT is a proxy for GHG emissions. The project's commitment to participate in an active benefit zone of CSA 10 for air quality and GHG mitigation will necessarily result in VMT reductions.

## CONCLUSIONS

The results from Table 1 indicate that the Jackson Township Alternative 2 project is expected to generate more than the 85% of regional average threshold for both VMT per capita and VMT per employee metrics. In all but one case, the project exceeds the County Guidelines threshold by more than 30%. Note that the CAPCOA report recommends that the aggregated effects of multiple VMT reducing measures not exceed 30% in suburban locations. VMT for retail uses is expected to be plausibly reduce net VMT in the Existing Condition and will likely reduce VMT in the CEQA Cumulative Condition.

It is therefore recommended that the project implement all VMT reducing measures identified as part of the project and identified in the Air Quality Mitigation Plan, the GHG Reduction Plan, and the Development Agreement. Jackson Township will also fund an enhanced transit program and cooperate with the County in establishing a non-revocable financing mechanism for the project area to fund the TRS by seeking annexation into, or the formation of, an active benefit zone of CSA 10.

## **ATTACHMENT A**

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**KIMLEY-HORN CAPCOA MEMORANDUM**

**To:** Jim Wiley, Taylor & Wiley  
**From:** Matt Weir, PE, TE, PTOE  
**Re:** **Jackson Township – Revised VMT Analysis**  
**DRAFT Peer Review**  
**Date:** September 8, 2020

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As requested, we have completed a review of DKS Associates' (DKS) *Jackson Township Specific Plan Revised VMT Analysis Memorandum* dated August 11, 2020. A marked up PDF with Kimley-Horn comments on the memorandum was sent separate from this memorandum. This memorandum provides additional information regarding the off-model VMT reduction measures.

On Page 3 of DKS' memo, off-model VMT reduction measures are summarized, however VMT reductions for each measure are not quantified. To assist with the quantitative evaluation of the project's various measures we have prepared estimated VMT reductions below in **Table 1**. Please note that these estimated reductions for each proposed measure are per the California Air Pollution Control Officers Association's (CAPCOA)<sup>1</sup>. Based on this evaluation, each of the projects' land uses are anticipated to experience the following VMT reductions (commute trips and non-commute trips):

- Residential Commute VMT = 14.0% VMT **reduction**
- Residential Non-commute VMT = 1.0% VMT **reduction**
- Office Commute VMT = 14.3% VMT **reduction**
- Office Non-commute VMT = 1.3% VMT **reduction**
- Retail Commute VMT = 14.3% VMT **reduction**
- Retail Non-commute VMT = 1.3% VMT **reduction**

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<sup>1</sup> *Quantifying Greenhouse Gas Mitigation Measures*, CAPCOA, August 2010.



Table 1 – Estimated VMT Reductions for Off-Model VMT Measures

#	Measure	CAPCOA Reference #	Estimated VMT Reduction (Commuter Trips)	Estimated VMT Reduction (Non-Commuter Trips)	Methodology
1	Project includes Below Market Rate (BMR) housing	LUT-6	Residential = 0.4% Office = 0% Retail = 0%	Residential = 0.4% Office = 0% Retail = 0%	<p>CAPCOA recommends the VMT reduction as the following:</p> <p>VMT reduction = 4% * Percentage of units that are Below Market Rate (BMR)  VMT reduction = 4% * 10% BMR  VMT reduction = 4% * 0.10  VMT reduction = 0.4%</p> <p>Based on assumption that 34% of the land use is required to be zoned high-density to support RHNA, as a practical matter it is anticipated to result in approximately 10% of total housing being either moderate income or less.</p> <p>This applies to all trips, i.e. commute trips and non-commute trips.</p>
2	<p>Project design promotes a multi-modal system that makes public transit, walking, and bicycling viable and attractive travel choices for residents and employees. Features include:</p> <ul style="list-style-type: none"> <li>o Adequate bike parking at non-residential locations, including the transit center and park and ride locations</li> <li>o Showers/lockers and other end of trip facilities at non-residential buildings</li> <li>o Long-term bike parking facilities</li> </ul>	SDT-6	Residential = 0% Office = 0.625% Retail = 0.625%	Residential = 0% Office = 0.625% Retail = 0.625%	<p>CAPCOA recommends a 0.625% VMT reduction for bicycle parking in non-residential projects (i.e. office uses).</p> <p>This applies to all trips, i.e. commute trips and non-commute trips.</p>

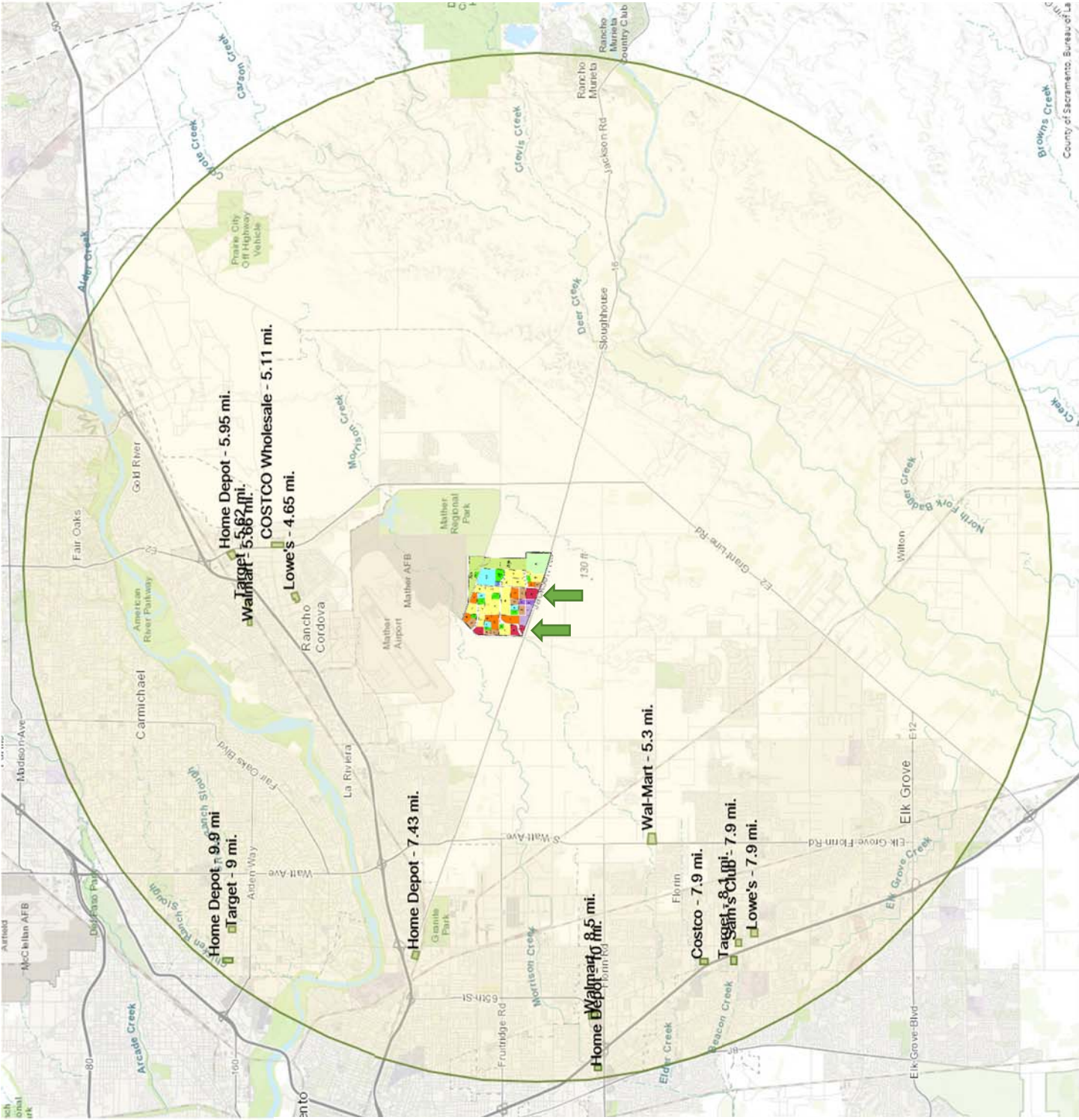
#	Measure	CAPCOA Reference #	Estimated VMT Reduction (Commute Trips)	Estimated VMT Reduction (Non-Commute Trips)	Methodology
3	Project includes an extensive pedestrian path and trail system that is convenient and accessible from homes, school, parks, employment, and shopping.	LUT-8	Residential = 0.625% Office = 0.625% Retail = 0.625%	Residential = 0.625% Office = 0.625% Retail = 0.625%	CAPCOA recommends a 0.625% VMT reduction.  This applies to all trips, i.e. commute trips and non-commute trips.
4	Pedestrian and bike paths minimize barriers to pedestrian/bicycle use (e.g., fences, berms, and other impediments are eliminated where possible).	LUT-8	N/A	N/A	Combined with Measure #3.
5	Project includes joining a Transportation Management Association (TMA) funded through assessments. Although the project will include a TMA, no VMT reduction from the TMA has been calculated or included in the Traffic Study.		Residential = 13% Office = 13% Retail = 13%		<p>Participation in the TMA would entail access to the following list of potential measures provided by the TMA, as described on page 8 of the VMT Analysis memorandum. Listed below is each potential service provided by the TMA for informational purposes. However, it is unlikely that the TMA would provide all these services. Therefore, for the purposes of estimating the VMT reduction, it was only assumed that the Guaranteed Ride Home program and the Education Programs would be included (shown in <b>bold</b>).</p> <ol style="list-style-type: none"> <li>1) Transit shuttles – 0% VMT reduction assumed because transit was already mentioned in the travel demand model.</li> <li>2) <b>Guaranteed Ride Home Program – Additional 9% VMT reduction based on study by William B. Menczer</b></li> <li>3) Subsidies - CAPCOA (TRT-4) recommends a VMT reduction equal to % reduction in commute trips * % employees eligible * adjustment from trips to VMT             <ol style="list-style-type: none"> <li>a. VMT % Reduction = 7.9% (for low density suburb with \$2.98 daily subsidy) * 100% eligible * 1.0</li> </ol> </li> </ol>

#	Measure	CAPCOA Reference #	Estimated VMT Reduction (Commuter Trips)	Estimated VMT Reduction (Non-Commuter Trips)	Methodology
					<p>b. VMT % Reduction = 8%</p> <p>4) Transportation Plans – combined with Education Program below, this does not expressly include the implementation of vanpools and ridesharing</p> <p>5) <b>Education Programs - CAPCOA (TRT-7) recommends a VMT reduction equal to % reduction in commuter trips * % employees eligible * adjustment from trips to VMT</b></p> <p>a. VMT % Reduction = 4% * 100% eligible * 1.0</p> <p>b. VMT % Reduction = 4%</p> <p>6) Infrastructure Support – Already included in Measure #2</p> <p>Transportation Coordinator Training and Support – combined with Education Programs</p>
6	Project includes assessments for regional transportation improvements.		N/A	N/A	No additional VMT reductions taken because these improvements are already included in the regional travel demand model.
Combined Total			Residential = 14.0% Office = 14.3% Retail = 14.3%	Residential = 1.0% Office = 1.3% Retail = 1.3%	

**ATTACHMENT B**

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**COMPETING RETAIL LOCATIONS**



## **JACKSON TOWNSHIP**

### ***Retail Market Area Study***

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Home Depot  
2756 Sunrise Blvd, Rancho Cordova, CA 95742

Target  
10881 Olson Dr, Rancho Cordova, CA 95670

Walmart  
10655 Folsom Blvd, Rancho Cordova, CA 95670

Costco  
11260 White Rock Rd, Rancho Cordova, CA 95742

Lowe's  
3251 Zinfandel Dr, Rancho Cordova, CA 95670

Home Depot  
8000 Folsom Blvd, Sacramento, CA 95826

Target  
1919 Fulton Ave, Sacramento, CA 95825

Home Depot  
4641 Florin Rd, Sacramento, CA 95823

Walmart  
6051 Florin Rd, Sacramento, CA 95823

Home Depot  
2000 Howe Ave, Sacramento, CA 95825

Walmart  
8915 Gerber Rd, Sacramento, CA 95829

Costco  
7981 E Stockton Blvd, Sacramento, CA 95823

Target  
6507 4th Ave, Sacramento, CA 95817

Sam's Club  
8250 Power Inn Rd, Sacramento, CA 95828

Lowe's  
8369 Power Inn Rd, Elk Grove, CA 95624

**APPENDIX B**  
**DKS MEMORANDUM DATED OCTOBER 16, 2020 THAT ANALYZED TMA BENEFIT**

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## JACKSON TOWNSHIP TMA VMT BENEFIT ANALYSIS

DATE: October 16, 2020

TO: Todd Smith | Sacramento County

FROM: Jim Damkowitch | DKS

SUBJECT: Jackson Township VMT Analysis: CAPCOA Back-Check

Project #13049-000

### INTRODUCTION

Given that many VMT reduction measures are not amenable to quantification through travel demand modeling, as part of the Jackson Township Specific Plan Revised VMT Analysis, several off-model VMT reduction measures were analyzed by Kimley-Horn using the California Air Pollution Control Officers Association (CAPCOA) publication: *Quantifying Greenhouse Gas Mitigation Measures*, CAPCOA, August 2010. The Kimley Horn technical memorandum dated September 8, 2020 is provided in Attachment A. Specifically, the following four VMT reduction strategies were evaluated:

1. Project includes Below Market Rate (BMR) housing
2. Project design promotes a multi-modal system that makes public transit, walking, and bicycling viable and attractive travel choices for residents and employees
3. Pedestrian path and trail systems
4. Project includes joining a Transportation Management Association (TMA)

Of these four strategies, TMA formation strategy achieves the greatest percent VMT reduction resulting in an estimated 13% reduction in total Residential, Office and Retail commuter VMT. Although TMAs typically offer all the following commute options for participating employees, for the purposes of estimating the VMT reduction, Kimley-Horn only assumed that the Guaranteed Ride Home program and the Education Programs for the Jackson Township TMA (shown in bold below).

1. Transit shuttles – 0% VMT reduction assumed because transit was already included in the travel demand model.



2. Guaranteed Ride Home Program – Additional 9% VMT reduction based on study by William B. Menczer
3. Subsidies - CAPCOA (TRT-4) recommends a VMT reduction equal to % reduction in commute trips \* % employees eligible \* adjustment from trips to VMT
  - a. VMT % Reduction = 7.9% (for low density suburb with \$2.98 daily subsidy) \* 100% eligible \* 1.0
  - b. VMT % Reduction = 8%
4. Transportation Plans – combined with Education Program below, this does not expressly include the implementation of vanpools and ridesharing
5. Education Programs - CAPCOA (TRT-7) recommends a VMT reduction equal to % reduction in commute trips \* % employees eligible \* adjustment from trips to VMT
  - a. VMT % Reduction = 4% \* 100% eligible \* 1.0
  - b. VMT % Reduction = 4%
6. Infrastructure Support – Already included in Measure #2 Transportation Coordinator Training and Support – combined with Education Programs

This technical memorandum further evaluates the potential VMT reduction effectiveness of a Jackson Township Specific Plan TMA using: 1) regionally relevant TMA participation information from Sacramento Area Council of Governments (SACOG); and, 2) applying the TRIMMS software for evaluating voluntary employer-based TDM programs.

## SACRAMENTO REGION TMA ANALYSIS

Transportation Demand Management Programs offer a variety of voluntary choices to driving alone to work. SACOG actively supports TDM programs to address congestion through educating motorists (typically commuters) on their available travel options, creating awareness of the relative costs and benefits to driving alone versus using shared or non-motorized transportation, and providing incentives to use shared transportation.

### Transportation Management Associations<sup>1</sup>

SACOG actively administers Transportation Management Associations (TMAs) that are made up of employers that provide a shared resource that those employers and their employees can use to learn more about travel options available, benefit from services such as Emergency Ride Home

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<sup>1</sup> The Sacramento Region Commuter Club serves some of the functions of a TMA by providing Members with services such as carpool and vanpool matching, bike and transit trip planners, and an Emergency Ride Home program.

programs, match up with carpool/vanpool partners, and enroll in incentive programs such as transit pass subsidies and commuter clubs.

**SACOG TMAs implement what are called “soft” TDM measures given that the menu of commute options and programs offered are voluntary-based and that participating employers are not accompanied by mandatory performance targets or reviews.** Providing access to the services that TMAs provide assumes that some employees will shift from single occupant vehicle commuting to more efficient modes such as transit, bicycling, and carpooling. There are 13 Sacramento area TMAs of which nine have formal MOUs established with SACOG. TMA participation data from SACOG is provided in Table 1. TMA areas are shown in Figure 1. Jackson Township Specific Plan socio-economic characteristics and vehicle miles of travel information are provided in Table 2 (source DKS).

Assuming all the Jackson Township Specific Plan employers join the TMA and that the same level of voluntary employee participation will be experienced as in other TMAs in the Sacramento region, the percent reduction in Commuter VMT is anticipated to be slightly greater than half the CAPCOA estimate – 7.16 percent ( $5,837 \times 7.16\% = 418$  TMA participants). Applying the average trip length (round-trip) of 23.13 miles yields a daily VMT reduction of 9,665. This would be distributed among Office and Retail employment. The TMA participation information can also be applied to Residential uses within the Jackson Township Specific Plan.

To estimate the share of Jackson Township residents who may work for, and participate in, one of the 13 existing TMAs (plus the Jackson Township TMA) can be estimated by multiplying total working residents (6,549) by the percentage of regional employees who currently work for a TMA participating employer ( $6,549 \times 25.7$  percent). This yields an estimate of 1,683 resident workers projected to work for TMA participating employers throughout the region. Applying the same 7.16 percent employee participation rate yields the number of resident workers who will voluntarily participate yields a total of 121 TMA resident worker participants. Applying the average trip length yields a daily resident worker VMT reduction of 2,798.

Summing both the Retail/Office and Resident VMT reduction yields a total daily VMT reduction of 12,463 resulting from forming a Jackson Township TMA. The latter equates to 2.0% of total VMT generated by the project.

Table 2. Jackson Township (JT) TMA Analysis Inputs

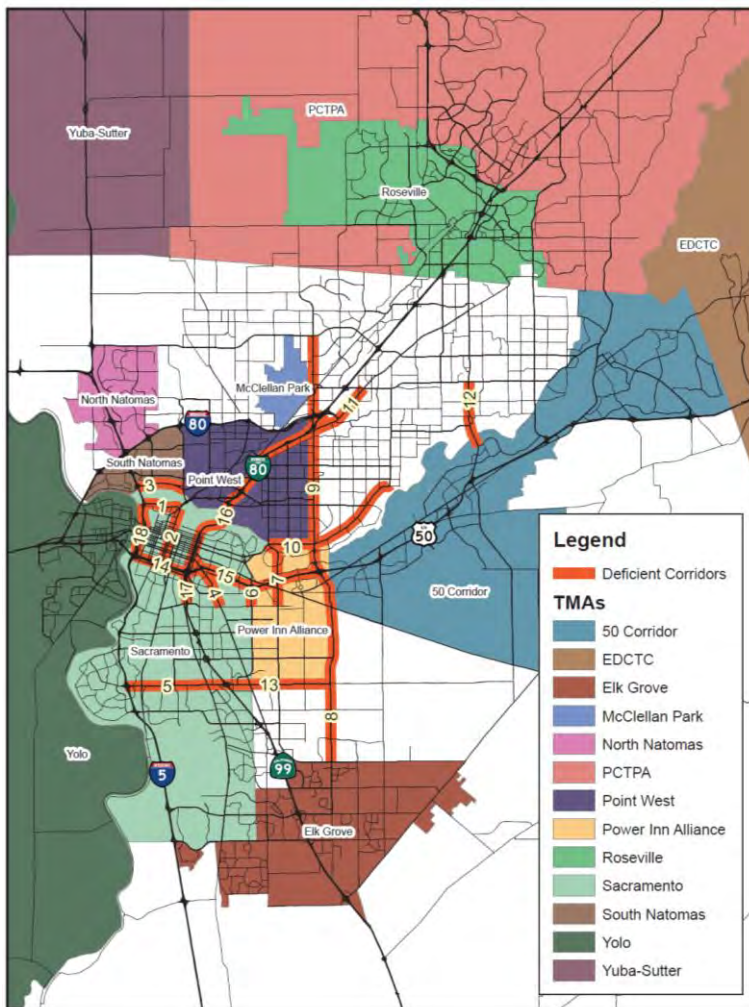
JT Population	14,597
JT Working Residents	6,549
JT Total Employees	5,837
JT Project Average Trip Length	23.13
JT Project VMT	628,937
JT Project Commuter VMT	135,010
% of TMA Participants as % of TMA Eligable Employees	7.16%

TABLE 1. TMA PARTICIPATION (SACOG Federal Congestion Management Process, 2017)

TMA-TMO ID	TMA NAME	Employers 2012	Employees 2012	TMA Area sq miles	Number of TMA Employers	Number of TMA Employees	Number of TMA Participants	% of Participants in Participating Employers	% Employers in TMA	% of Employees in TMA	% of TMA Participants
1	50 Corridor TMA	6,927	88,024	89	56	24,436	1,875	7.7%	0.8%	27.8%	2.1%
2	City of Elk Grove	7,246	53,070	1,790	1	6	2	33.3%	0.0%	0.0%	0.0%
3	City of Roseville	2,292	21,035	36	61	6,772	149	2.2%	2.7%	32.2%	0.7%
4	El Dorado County Transportation Commission	138	2,134	4	193	2,560	275	10.7%	139.9%	120.0%	12.9%
5	McClellan Park TMA	1,030	8,645	11	42	1,909	63	3.3%	4.1%	22.1%	0.7%
6	North Natomas TMA	8,525	70,196	1,457	2	15,007	18	0.1%	0.0%	21.4%	0.0%
7	Placer County Transportation Planning Agency	4,514	45,572	20	12	2,824	244	8.6%	0.3%	6.2%	0.5%
8	Point West Area TMA	2,698	32,820	16	99	8,357	158	1.9%	3.7%	25.5%	0.5%
9	Power Inn Alliance	4,358	56,558	42	117	37,212	1,160	3.1%	2.7%	65.8%	2.1%
10	Sacramento TMA	11,447	113,192	68	224	103,579	10,327	10.0%	2.0%	91.5%	9.1%
11	South Natomas TMA	785	8,248	6	195	6,869	829	12.1%	24.8%	83.3%	10.1%
12	Yolo TMA	5,833	85,899	1,023	26	19,048	1,361	7.1%	0.4%	22.2%	1.6%
13	Yuba-Sutter TMA	4,276	41,116	1,252	5	2,589	88	3.4%	0.1%	6.3%	0.2%
	<b>TOTAL TMA areas</b>	<b>60,069</b>	<b>626,509</b>	<b>5,814</b>	<b>1,033</b>	<b>231,168</b>	<b>16,549</b>	<b>7.2%</b>	<b>1.7%</b>	<b>36.9%</b>	<b>2.6%</b>
	<b>Non TMA areas</b>	<b>13,571</b>	<b>273,660</b>								
	<b>Regional Totals</b>	<b>73,640</b>	<b>900,169</b>						<b>1.4%</b>	<b>25.7%</b>	<b>1.8%</b>

Sources: SACOG Employment Inventory 2012; Commuter Club registration June 2016  
 1 - McClellan park has grown significantly in number of employers and employees between 2012 and 2016.

FIGURE 1. TMA AREAS (SACOG Federal Congestion Management Process, 2017)



## TRIMMS ANALYSIS

Trip Reduction Impacts of Mobility Management Strategies (TRIMMS) software package developed by the Center for Urban Transportation Research at the University of South Florida for the Federal Highway Administration was used to estimate the VMT reduction benefit of forming the Jackson Township TMA. The TRIMMS software includes a built-in database for travel behavior and socioeconomic data by region throughout the United States including the Sacramento metropolitan area. TRIMMS allows an assessment of employer based TDM benefits associated with voluntary **TDM support activities (referred to as "soft" programs)** as well as benefits from pricing/cost incentives. All elasticities that drive the model were based on revealed preference surveys and data from Portland, Oregon. TRIMMS output includes the estimated change in mode share, trip and VMT relative to baseline conditions.

The following TDM strategies were performed in the Jackson Township TMA TRIMMS analysis.

- Guaranteed ride home and ride match
- Telework and flexible work schedule
- Implementation of a commute trip reduction education program

The trip reduction analysis was performed using the travel parameters specific to the Sacramento region. The trip reduction analysis only considers commuter auto trip reduction impacts during the AM/PM peak periods. TRIMMS trip reduction output addresses person trips – not vehicle trips. However, person trips that travel by single occupant vehicles were directly considered as auto trips and the auto-drive alone trip reduction from TRIMMS can be directly used as a trip reduction measure for single occupant vehicles in this analysis given that all the vehicles in all other modes would remain unchanged or slight changed.

Table 4 and Table 5 show the employment (Office and Retail) TRIMMS results of net change in mode shift and net VMT reduction respectively. Table 6 and Table 7 show the residential TRIMMS results of net change in mode shift and net VMT reduction respectively. TRIMMS TMA effectiveness results show a projected daily VMT reduction for employees of 4,192. This would be distributed among Office and Retail employment. Resident worker daily VMT reduction is estimated 4,635. Summing both the Retail/Office and Resident VMT reduction yields a total daily VMT reduction of 8,827 resulting from forming a Jackson Township TMA. The latter equates to 1.4% of total VMT generated by the project. TRIMMS data input sheets are provided in Attachment B.

## CONCLUSION: TMA VMT REDUCTION ESTIMATE RELATIVE TO CAPCOA ESTIMATE

Based on information on TMA participation within the Sacramento region and TDM modeling using TRIMMS software, the anticipated VMT reduction benefit of forming a Jackson Township TMA is approximately 3-7 percent versus the CAPCOA estimate of 13 percent (for Office Commute, Retail Commute and Residential Commute). This equates to a total daily VMT reduction of approximately 8,830 to 12,463 (1.4 to 2 percent reduction in total Jackson Township VMT).

Table 4. Jackson Township Employee Mode Share Change Resulting from TMA (TRI MMS)

Change							
Mode	Share	Round Trips			VMT		
		Total	Peak	Off-Peak	Total	Peak	Off-Peak
Auto-Drive Alone	-2.0%	-399	-218	-181	-4,192	-2,293	-1,899
Auto-Rideshare	0.5%	38	23	15	188	112	76
Vanpool	0.5%	52	13	38	83	21	62
Transit	0.8%	82	35	47	40	17	23
Bike	0.1%	1	1	1	4	2	2
Walk	0.0%	1	0	0	1	0	0
Other	0.1%	5	3	2	33	18	15
<b>Total</b>	<b>0.0%</b>	<b>-220</b>	<b>-143</b>	<b>-76</b>	<b>-3,845</b>	<b>-2,123</b>	<b>-1,722</b>

Table 5. Jackson Township Daily Employee VMT Change Resulting from TMA (TRI MMS)

Impact on Auto-Drive Alone Travel			
<i>(a negative value is a reduction)</i>			
	Peak	Off-Peak	Total
Change in Daily Round Trips	-218	-181	-399
Change in Daily VMT	-2,293	-1,899	-4,192

Table 6. Jackson Township Resident Mode Share Change Resulting from TMA (TRI MMS)

Change							
Mode	Share	Round Trips			VMT		
		Total	Peak	Off-Peak	Total	Peak	Off-Peak
Auto-Drive Alone	-1.9%	-441	-241	-200	-4,635	-2,534	-2,102
Auto-Rideshare	0.5%	41	24	17	201	119	82
Vanpool	0.4%	52	13	38	83	21	62
Transit	0.7%	82	35	47	40	17	23
Bike	0.1%	2	1	1	4	2	2
Walk	0.0%	1	0	0	1	0	0
Other	0.1%	5	3	2	37	20	17
<b>Total</b>	<b>0.0%</b>	<b>-258</b>	<b>-164</b>	<b>-94</b>	<b>-4,270</b>	<b>-2,353</b>	<b>-1,917</b>

Table 7. Jackson Township Daily Residential VMT Change Resulting from TMA (TRI MMS)

Impact on Auto-Drive Alone Travel			
<i>(a negative value is a reduction)</i>			
	Peak	Off-Peak	Total
Change in Daily Round Trips	-241	-200	-441
Change in Daily VMT	-2,534	-2,102	-4,635

# ATTACHMENT A

**To:** Jim Wiley, Taylor & Wiley  
**From:** Matt Weir, PE, TE, PTOE  
**Re:** **Jackson Township – Revised VMT Analysis**  
**DRAFT Peer Review**  
**Date:** September 8, 2020

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As requested, we have completed a review of DKS Associates' (DKS) *Jackson Township Specific Plan Revised VMT Analysis Memorandum* dated August 11, 2020. A marked up PDF with Kimley-Horn comments on the memorandum was sent separate from this memorandum. This memorandum provides additional information regarding the off-model VMT reduction measures.

On Page 3 of DKS' memo, off-model VMT reduction measures are summarized, however VMT reductions for each measure are not quantified. To assist with the quantitative evaluation of the project's various measures we have prepared estimated VMT reductions below in **Table 1**. Please note that these estimated reductions for each proposed measure are per the California Air Pollution Control Officers Association's (CAPCOA)<sup>1</sup>. Based on this evaluation, each of the projects' land uses are anticipated to experience the following VMT reductions (commute trips and non-commute trips):

- Residential Commute VMT = 14.0% VMT **reduction**
- Residential Non-commute VMT = 1.0% VMT **reduction**
- Office Commute VMT = 14.3% VMT **reduction**
- Office Non-commute VMT = 1.3% VMT **reduction**
- Retail Commute VMT = 14.3% VMT **reduction**
- Retail Non-commute VMT = 1.3% VMT **reduction**

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<sup>1</sup> *Quantifying Greenhouse Gas Mitigation Measures*, CAPCOA, August 2010.

Table 1 – Estimated VMT Reductions for Off-Model VMT Measures

#	Measure	CAPCOA Reference #	Estimated VMT Reduction (Commuter Trips)	Estimated VMT Reduction (Non-Commuter Trips)	Methodology
1	Project includes Below Market Rate (BMR) housing	LUT-6	Residential = 0.4% Office = 0% Retail = 0%	Residential = 0.4% Office = 0% Retail = 0%	<p>CAPCOA recommends the VMT reduction as the following:</p> <p>VMT reduction = 4% * Percentage of units that are Below Market Rate (BMR)  VMT reduction = 4% * 10% BMR  VMT reduction = 4% * 0.10  VMT reduction = 0.4%</p> <p>Based on assumption that 34% of the land use is required to be zoned high-density to support RHNA, as a practical matter it is anticipated to result in approximately 10% of total housing being either moderate income or less.</p> <p>This applies to all trips, i.e. commute trips and non-commute trips.</p>
2	Project design promotes a multi-modal system that makes public transit, walking, and bicycling viable and attractive travel choices for residents and employees. Features include: <ul style="list-style-type: none"> <li>o Adequate bike parking at non-residential locations, including the transit center and park and ride locations</li> <li>o Showers/lockers and other end of trip facilities at non-residential buildings</li> <li>o Long-term bike parking facilities</li> </ul>	SDT-6	Residential = 0% Office = 0.625% Retail = 0.625%	Residential = 0% Office = 0.625% Retail = 0.625%	<p>CAPCOA recommends a 0.625% VMT reduction for bicycle parking in non-residential projects (i.e. office uses).</p> <p>This applies to all trips, i.e. commute trips and non-commute trips.</p>



#	Measure	CAPCOA Reference #	Estimated VMT Reduction (Commute Trips)	Estimated VMT Reduction (Non-Commute Trips)	Methodology
3	Project includes an extensive pedestrian path and trail system that is convenient and accessible from homes, school, parks, employment, and shopping.	LUT-8	Residential = 0.625% Office = 0.625% Retail = 0.625%	Residential = 0.625% Office = 0.625% Retail = 0.625%	CAPCOA recommends a 0.625% VMT reduction.  This applies to all trips, i.e. commute trips and non-commute trips.
4	Pedestrian and bike paths minimize barriers to pedestrian/bicycle use (e.g., fences, berms, and other impediments are eliminated where possible).	LUT-8	N/A	N/A	Combined with Measure #3.
5	Project includes joining a Transportation Management Association (TMA) funded through assessments. Although the project will include a TMA, no VMT reduction from the TMA has been calculated or included in the Traffic Study.		Residential = 13% Office = 13% Retail = 13%		<p>Participation in the TMA would entail access to the following list of potential measures provided by the TMA, as described on page 8 of the VMT Analysis memorandum. Listed below is each potential service provided by the TMA for informational purposes. However, it is unlikely that the TMA would provide all these services. Therefore, for the purposes of estimating the VMT reduction, it was only assumed that the Guaranteed Ride Home program and the Education Programs would be included (shown in <b>bold</b>).</p> <ol style="list-style-type: none"> <li>1) Transit shuttles – 0% VMT reduction assumed because transit was already mentioned in the travel demand model.</li> <li>2) <b>Guaranteed Ride Home Program – Additional 9% VMT reduction based on study by William B. Menczer</b></li> <li>3) Subsidies - CAPCOA (TRT-4) recommends a VMT reduction equal to % reduction in commute trips * % employees eligible * adjustment from trips to VMT <ol style="list-style-type: none"> <li>a. VMT % Reduction = 7.9% (for low density suburb with \$2.98 daily subsidy) * 100% eligible * 1.0</li> </ol> </li> </ol>

#	Measure	CAPCOA Reference #	Estimated VMT Reduction (Commuter Trips)	Estimated VMT Reduction (Non-Commuter Trips)	Methodology
					<p>b. VMT % Reduction = 8%</p> <p>4) Transportation Plans – combined with Education Program below, this does not expressly include the implementation of vanpools and ridesharing</p> <p>5) <b>Education Programs - CAPCOA (TRT-7) recommends a VMT reduction equal to % reduction in commuter trips * % employees eligible * adjustment from trips to VMT</b></p> <p>a. VMT % Reduction = 4% * 100% eligible * 1.0</p> <p>b. VMT % Reduction = 4%</p> <p>6) Infrastructure Support – Already included in Measure #2</p> <p>Transportation Coordinator Training and Support – combined with Education Programs</p>
6	Project includes assessments for regional transportation improvements.		N/A	N/A	No additional VMT reductions taken because these improvements are already included in the regional travel demand model.
Combined Total			Residential = 14.0% Office = 14.3% Retail = 14.3%	Residential = 1.0% Office = 1.3% Retail = 1.3%	

ATTACHMENT B  
TRIMMS INPUTS

**? Analysis Details**

Analysis Title: SAC TMA Analysis

Project Analyst: JD

Analysis Date: 10/1/2020

Location: Sacramento-Yolo, CA

Selected Urban Area: Sacramento-Yolo, CA

Program Cost:  

Duration (years): 1

Commuters Affected: 5,836

Occupations: All Occupations

**Industry Sector**

- Agriculture & Mining
- Construction
- Education & Health
- Entertainment & Food
- Finance & Insurance
- Government
- Information Services
- Manufacturing
- Armed Forces
- Professional Services
- Other Services
- Retail Trade
- Transportation
- Wholesale Trade

**? Financial and Pricing Strategies (\$)**

Mode	Current Parking Cost	New Parking Cost	Current Trip Cost	New Trip Cost
Auto-Drive Alone				
Auto-Rideshare			3.00	1.00
Vanpool			3.00	1.00
Public Transport			3.00	1.00
Cycling				
Walking				
Other				

**? Access and Travel Time Improvements (minutes)**

Mode	Current Access Time	New Access	Current Travel	New Travel Time
Auto-Drive Alone				
Auto-Rideshare				
Vanpool				
Public Transport				
Cycling				
Walking				
Other				

<b>% Workforce Affected</b>	<b>100.0%</b>
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? Program Subsidies		
	Yes	No
Carpool Subsidies	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Transit Subsidies	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Vanpool Subsidies	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bike Subsidies	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Walk Subsidies	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Guaranteed Ride Home and Ride Match		
	Yes	No
Carpool matching service offered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Emergency ride home provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vehicle for non-work trips?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Telework and Flexible Work Schedules		
	Yes	No
Flexible working hours offered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Compressed work week offered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Telework program offered?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksite Characteristics		
Accessibility		
	Yes	No
Bus or train station onsite or within 1/4 mile	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bike lanes onsite or within 1/4 mile	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dedicated sidewalk onsite	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Amenities		
Shopping onsite or within 1/4 mile	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Restaurant onsite or within 1/4 mile	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bank onsite or within 1/4 mile	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Childcare onsite or within 1/4 mile	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Parking		
Parking charge for carpooling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Parking charge for vanpooling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Number of free onsite parking spaces		<b>0</b>
Program Marketing		
	Yes	No
Internal snail-mail of promotional material?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Internal promotional email?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Do you hold promotional events?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Program management and promotion (hrs./week)		<b>8</b>

? Land Use Controls		
Encouraging higher densities in residential areas		
	Current	New
Gross Population Density (persons/sq. mile)	405	
Increase (%)	<input type="text" value=""/>	0.0
Encouraging mixed land-use		
	Current	New
Retail Establishment Density (number/sq. mile)	1	
Increase (%)	<input type="text" value=""/>	0.0
Increasing station accessibility		
	Current	New
Walking distance to nearest station (miles)	0.79	
Decrease (%)	<input type="text" value=""/>	0.0
Implementing TOD stations		
	Yes	No
Presence of TOD stop	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>% Workforce Affected</b>	<b>100.0%</b>	



## TRIMMS™

### Trip Reduction Impacts of Mobility Management Strategies

Sisinnio Concas, Philip L. Winters  
Center for Urban Transportation Research  
National Center for Transit Research, University of South Florida




**? Regional Parameters**

Selected Region Sacramento-Yolo, CA			
	Default	User Defined	In Use
Population Density	405		405
Household Income	\$57,361	\$62,500	\$62,500
Exposure Scalar	0.19		0.19
Regional Scalar	0.86		0.86
Total Employment	967,389	5,836	5,836
Percent in Management	38.2%	35.7%	35.7%
Percent in Services	17.7%	21.1%	21.1%

Total Employment			
Industry Sector	Default	User Defined	In Use
Agriculture & Mining	8,706	202	202
Construction	73,669	392	392
Education & Health	204,309	1,317	1,317
Entertainment & Food	85,051	654	654
Finance & Insurance	78,195	297	297
Government	92,732	361	361
Information Services	24,331	129	129
Manufacturing	57,227	369	369
Armed Forces	251	37	37
Professional Services	113,452	650	650
Other Services	46,510	302	302
Retail Trade	109,275	745	745
Transportation	46,976	252	252
Wholesale Trade	26,956	129	129

All Occupations Hourly Wage			
Industry Sector	Default	User Defined	In Use
Agriculture & Mining	10.5		10.5
Construction	19.6		19.6
Education & Health	20.3		20.3
Entertainment & Food	9.3		9.3
Finance & Insurance	24.0		24.0
Government	21.7		21.7
Information Services	25.0		25.0
Manufacturing	18.8		18.8
Armed Forces	21.7		21.7
Professional Services	28.9		28.9
Other Services	14.7		14.7
Retail Trade	12.0		12.0
Transportation	17.9		17.9
Wholesale Trade	20.9		20.9

Mode Share	Default	User Defined	In Use
Auto-Drive Alone	75.3%		75.3%
Auto-Rideshare	11.0%		11.0%
Vanpool	1.1%		1.1%
Public Transport	2.7%		2.7%
Cycling	2.9%		2.9%
Walking	2.1%		2.1%
Other	5.1%		5.1%
<b>Total</b>	<b>100.0%</b>		<b>100.0%</b>

Percent Peak Period	54.2%		54.2%
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Average Vehicle Occupancy			
	Default	User Defined	In Use
Auto-Drive Alone	1.55	1.1	1.1
Auto-Rideshare	2.35	2.35	2.35
Vanpool	7.2	7.2	7.2
Public Transport	24	24	24
Other	1.67	1.67	1.67

Average One-Way Trip Length			
	Default	User Defined	In Use
Auto-Drive Alone	9.05	11.56	11.56
Auto-Rideshare	7.26	11.56	11.56
Vanpool	7.26	11.56	11.56
Public Transport	5.35	11.56	11.56
Cycling	2.62	2.62	2.62
Walking	0.79	0.79	0.79
Other	13.88	11.56	11.56

Accessibility			
	Default	User Defined	In Use
Retail Establishment Density (number/sq. mile)	1.10		1
Distance to nearest transit station (miles)	0.79		0.79
Vehicle ownership (vehicles/household)	2.64		2.64

Roadway Speed (miles/hour)			
	Default	User Defined	In Use
Freeway	54.0		54
Arterial	29.1		29.1

Crash Rate (per million VMT)			
	Default	User Defined	In Use
No Injury (O)	0.00375	0.65	0.65000
Possible Injury ( C )	0.00150	0.31	0.31000
Non-incapacitating Injury (B)	0.00191	0.31	0.31000
Incapacitating Injury (A)	0.00150	0.31	0.31000
Fatal Injury (K)	0.00868	0.009	0.00900

**? Regional Parameters**

Selected Region Sacramento-Yolo, CA			
	Default	User Defined	In Use
Population Density	405		405
Household Income	\$57,361	\$62,500	\$62,500
Exposure Scalar	0.19		0.19
Regional Scalar	0.86		0.86
Total Employment	967,389	6,549	6,549
Percent in Management	38.2%	35.7%	35.7%
Percent in Services	17.7%	21.1%	21.1%

Total Employment			
Industry Sector	Default	User Defined	In Use
Agriculture & Mining	8,706	227	227
Construction	73,669	440	440
Education & Health	204,309	1,478	1,478
Entertainment & Food	85,051	734	734
Finance & Insurance	78,195	333	333
Government	92,732	406	406
Information Services	24,331	145	145
Manufacturing	57,227	414	414
Armed Forces	251	41	41
Professional Services	113,452	729	729
Other Services	46,510	338	338
Retail Trade	109,275	836	836
Transportation	46,976	283	283
Wholesale Trade	26,956	145	145

All Occupations Hourly Wage			
Industry Sector	Default	User Defined	In Use
Agriculture & Mining	10.5		10.5
Construction	19.6		19.6
Education & Health	20.3		20.3
Entertainment & Food	9.3		9.3
Finance & Insurance	24.0		24.0
Government	21.7		21.7
Information Services	25.0		25.0
Manufacturing	18.8		18.8
Armed Forces	21.7		21.7
Professional Services	28.9		28.9
Other Services	14.7		14.7
Retail Trade	12.0		12.0
Transportation	17.9		17.9
Wholesale Trade	20.9		20.9

Mode Share	Default	User Defined	In Use
Auto-Drive Alone	75.3%		75.3%
Auto-Rideshare	11.0%		11.0%
Vanpool	1.1%		1.1%
Public Transport	2.7%		2.7%
Cycling	2.9%		2.9%
Walking	2.1%		2.1%
Other	5.1%		5.1%
<b>Total</b>	<b>100.0%</b>		<b>100.0%</b>

Percent Peak Period	54.2%		54.2%
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Average Vehicle Occupancy			
	Default	User Defined	In Use
Auto-Drive Alone	1.55	1.1	1.1
Auto-Rideshare	2.35	2.35	2.35
Vanpool	7.2	7.2	7.2
Public Transport	24	24	24
Other	1.67	1.67	1.67

Average One-Way Trip Length			
	Default	User Defined	In Use
Auto-Drive Alone	9.05	11.56	11.56
Auto-Rideshare	7.26	11.56	11.56
Vanpool	7.26	11.56	11.56
Public Transport	5.35	11.56	11.56
Cycling	2.62	2.62	2.62
Walking	0.79	0.79	0.79
Other	13.88	11.56	11.56

Accessibility			
	Default	User Defined	In Use
Retail Establishment Density (number/sq. mile)	1.10		1
Distance to nearest transit station (miles)	0.79		0.79
Vehicle ownership (vehicles/household)	2.64		2.64

Roadway Speed (miles/hour)			
	Default	User Defined	In Use
Freeway	54.0		54
Arterial	29.1		29.1

Crash Rate (per million VMT)			
	Default	User Defined	In Use
No Injury (O)	0.00375	0.65	0.65000
Possible Injury ( C )	0.00150	0.31	0.31000
Non-incapacitating Injury (B)	0.00191	0.31	0.31000
Incapacitating Injury (A)	0.00150	0.31	0.31000
Fatal Injury (K)	0.00868	0.009	0.00900

**APPENDIX C**  
**ALTERNATIVE 2 GHG EMISSIONS COMPARED TO SB 743 DRAFT THRESHOLDS**

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1 Alternative 2 GHG Emissions Compared to SB 743 Thresholds					
		Project-Related VMT		Cumulative VMT	
		Residential	Employee	Residential	Employee
3	VMT from DKS Modeling:				
4	VMT per capita Results before Additional Mitigation [Per Resident; Per Employee]	21.9	23.0	16.6	19.8
5	Number of Residential Persons or Employees	14,597	5,837	14,597	5,837
6	Total Daily VMT	319,674	134,251	242,310	115,573
7	Percent of Trips that are Work Commute Trips	50.6%	100.0%	50.6%	100.0%
8	Percent of Trips that are Non-commute Trips	49.4%	0.0%	49.4%	0.0%
9	Daily VMT that are Work Commute Trips	161,755	134,251	122,609	115,573
10	Daily VMT that are Non-commute Trips	157,919	-	119,701	-
11	SB 743 Target (Daily VMT per capita)	15.20	16.30	14.60	14.70
12	Reduction in Total Daily VMT from Enhanced Transit Program	(1,918)	(806)	(1,454)	(693)
13	Reduction in Total Daily VMT from Below Market Rate Housing (BMR)	(1,279)	(537)	(969)	(462)
14	Reduction in Total Daily VMT from SDT-6 (bike paths, etc.)	(1,998)	(839)	(1,514)	(722)
15	Reduction in Total Daily VMT from TMA	(6,393)	(2,685)	(4,846)	(2,311)
16	Total VMT Reduction in DKS and Kimley-Horn Memos	(11,588)	(4,867)	(8,794)	(4,190)
17	Jackson Township Daily VMT after DKS Reductions	308,086	129,384	233,526	111,383
18	Jackson Township Daily VMT/Resident or Employee after DKS Reductions	21.1	22.2	16.0	19.1
19	Annual VMT After DKS Reductions	98,587,554	41,403,008	74,728,466	35,642,590
20	Daily VMT if SB 743 Threshold were met	221,874	95,143	213,116	85,804
21	Annual VMT if SB 743 Threshold were met	70,999,808	30,445,792	68,197,184	27,457,248
22	Annual VMT Greater than SB 743 Thresholds	27,587,746	10,957,216	6,531,282	8,185,342
23	Equivalent GHG Emissions from VMT:	MT/yr CO2e	MT/yr CO2e	MT/yr CO2e	MT/yr CO2e
24	CO2e Emission Factor (g/mile)	212.87	212.87	212.87	212.87
25	Percent reduction in emission factor due to electric vehicle penetration	4.40%	4.40%	4.40%	4.40%
26	Adjusted CO2e Emission Factor (g/mile)	203.50	203.50	203.50	203.50
27	CO2e Emissions Greater than SB 743 Thresholds (MT/yr)	5,614	2,230	1,329	1,666
28	Mitigation from AQMP (MT/yr)				
29	High Efficacy Public Outdoor Lighting	(76)	(48)	(76)	(48)
30	Energy Efficient Appliances	(34)	-	(34)	-
31	Public EV Charging Stations	(4,022)	(4,022)	(4,022)	(4,022)
32	Residential Pre-wiring for EV Charging Stations	-	-	-	-
33	Energy Efficient Boilers	-	-	-	-
34	Residential Electric Hot Water Heaters	-	-	-	-
35	Total Reductions from AQMP	(4,132)	(4,070)	(4,132)	(4,070)
36	Additional MT/yr from VMT Alone of Mitigation Needed to Reach the SB 743 Threshold	1,482	(1,840)	(2,803)	(2,404)
37	Construction Emissions:	MT/yr CO2e	MT/yr CO2e	MT/yr CO2e	MT/yr CO2e
38	Total Construction Emissions for Alternative 2	82,237	82,237	82,237	82,237
39	Duration of Construction plus Anticipated Project Lifetime (years)	65	65	65	65
40	Annual Amortized Construction Emissions	1,265	1,265	1,265	1,265
41	Total VMT + Construction MT/yr of GHG Mitigation Needed to Reach the SB 743 Threshold	2,747	(575)	(1,538)	(1,139)
42	Additional Mitigation beyond AQMP (MT/yr)	MT/yr CO2e	MT/yr CO2e	MT/yr CO2e	MT/yr CO2e
43	Additional Mitigation beyond AQMP and BMP-2 (MT/yr)				
44	Additional Multi-family (HD) housing pre-wired beyond BMP-2	(989)	(989)	(780)	(780)
45	Additional 210 public charging stations beyond AQMP	(1,760)	(1,760)	(1,760)	(1,760)
46	Total Additional Mitigation beyond AQMP and BMP-2 (MT/yr)	(2,749)	(2,749)	(2,540)	(2,540)
47	Net GHG Emissions (MT/yr) after all mitigation	(2)	(3,324)	(4,078)	(3,679)

**APPENDIX D**  
**EMFAC2017 EMISSION FACTORS**

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EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SACRAMENTO

Calendar Year: 2035

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, g/mile for RUNEX, PMBW and PMTW

**GHG Emission Factors for Commute Trips only. Thus emission factors include only light duty vehicles.**

- LDA Automobiles
- LDT1 Light duty trucks GVWR < 6000 lbs and ETW < 3750 lbs
- LTD2 Light duty trucks GVWR < 6000 lbs and ETW < 5750 lbs
- LHD1 Light duty trucks GVWR 8501 to 10000 lbs (example RAM 2500, F250)
- LHD2 Light duty trucks GVWR 10001 to 14000 lbs (example RAM 3500, F350)

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	CO2_RUNEX	CH4_RUNEX	N2O_RUNEX	TOTAL VMT
SACRAMENT	2035	LDA	Aggregated		5 GAS	1035.03359	486.9234642	0.00561334	0.00554584	
SACRAMENT	2035	LDA	Aggregated		5 DSL	12.6258059	404.4589088	0.00443621	0.06357531	
SACRAMENT	2035	LDT1	Aggregated		5 GAS	100.220835	571.0235582	0.00743861	0.00617469	
SACRAMENT	2035	LDT1	Aggregated		5 DSL	0.02588368	996.8832221	0.01520066	0.15669616	
SACRAMENT	2035	LDT2	Aggregated		5 GAS	323.90682	571.9909045	0.00832751	0.00596108	
SACRAMENT	2035	LDT2	Aggregated		5 DSL	3.21752567	534.7242811	0.01234429	0.08405121	
					<b>WEIGHTED AVERAGE 5 MPH</b>	<b>510.7252264</b>	<b>0.00633814</b>	<b>0.00635036</b>		<b>1475.03046</b>
SACRAMENT	2035	LDA	Aggregated		10 GAS	78897.1583	398.002709	0.00357114	0.00479213	
SACRAMENT	2035	LDA	Aggregated		10 DSL	962.423075	336.9524484	0.0033198	0.05296423	
SACRAMENT	2035	LDT1	Aggregated		10 GAS	7639.49996	466.2644811	0.00475943	0.00532232	
SACRAMENT	2035	LDT1	Aggregated		10 DSL	1.97302652	839.1429269	0.0110334	0.13190158	
SACRAMENT	2035	LDT2	Aggregated		10 GAS	24690.3366	466.8352736	0.00531254	0.00514077	
SACRAMENT	2035	LDT2	Aggregated		10 DSL	245.261251	450.1130006	0.00924059	0.0707515	
					<b>WEIGHTED AVERAGE 10 MPH</b>	<b>417.35476</b>	<b>0.00404463</b>	<b>0.00546316</b>		<b>112436.652</b>
SACRAMENT	2035	LDA	Aggregated		15 GAS	250175.652	325.3274311	0.00236928	0.00422215	
SACRAMENT	2035	LDA	Aggregated		15 DSL	3051.7553	277.1424299	0.00162457	0.04356293	
SACRAMENT	2035	LDT1	Aggregated		15 GAS	24224.1537	381.1590686	0.00317562	0.00468131	
SACRAMENT	2035	LDT1	Aggregated		15 DSL	6.25628613	695.7877845	0.00648945	0.10936815	
SACRAMENT	2035	LDT2	Aggregated		15 GAS	78290.7927	381.6577428	0.00353464	0.00452328	
SACRAMENT	2035	LDT2	Aggregated		15 DSL	777.70093	373.2178601	0.00451286	0.05866465	
					<b>WEIGHTED AVERAGE 15 MPH</b>	<b>341.1891839</b>	<b>0.00267835</b>	<b>0.00477682</b>		<b>356526.311</b>
SACRAMENT	2035	LDA	Aggregated		20 GAS	938097.568	269.7816167	0.00165327	0.00379029	
SACRAMENT	2035	LDA	Aggregated		20 DSL	11443.3367	227.3467797	0.00063565	0.03573575	
SACRAMENT	2035	LDT1	Aggregated		20 GAS	90834.6572	316.2002118	0.00222738	0.00419757	
SACRAMENT	2035	LDT1	Aggregated		20 DSL	23.4595443	571.642785	0.00377142	0.08985429	
SACRAMENT	2035	LDT2	Aggregated		20 GAS	293571.343	316.6848581	0.00247289	0.00405693	
SACRAMENT	2035	LDT2	Aggregated		20 DSL	2916.18846	306.6269654	0.00175547	0.04819749	
					<b>WEIGHTED AVERAGE 20 MPH</b>	<b>282.9576024</b>	<b>0.00186381</b>	<b>0.00424834</b>		<b>1336886.55</b>
SACRAMENT	2035	LDA	Aggregated		25 GAS	3029820.65	230.2404883	0.00121857	0.0034601	
SACRAMENT	2035	LDA	Aggregated		25 DSL	36959.1171	190.5715411	0.00038318	0.02995519	
SACRAMENT	2035	LDT1	Aggregated		25 GAS	293373.237	269.9226314	0.00164877	0.0038289	
SACRAMENT	2035	LDT1	Aggregated		25 DSL	75.768464	479.3018686	0.00276693	0.07533958	
SACRAMENT	2035	LDT2	Aggregated		25 GAS	948162.054	270.3776896	0.00182663	0.00370126	
SACRAMENT	2035	LDT2	Aggregated		25 DSL	9418.55979	257.0956572	0.00105412	0.04041186	
					<b>WEIGHTED AVERAGE 25 MPH</b>	<b>241.4739459</b>	<b>0.00137384</b>	<b>0.00384677</b>		<b>4317809.39</b>
SACRAMENT	2035	LDA	Aggregated		30 GAS	2116035.66	204.3887892	0.00095045	0.00320789	
SACRAMENT	2035	LDA	Aggregated		30 DSL	25812.3561	165.0699234	0.00028997	0.02594669	
SACRAMENT	2035	LDT1	Aggregated		30 GAS	204892.732	239.6010403	0.00129002	0.00354814	
SACRAMENT	2035	LDT1	Aggregated		30 DSL	52.9169182	414.4604744	0.00225142	0.06514741	
SACRAMENT	2035	LDT2	Aggregated		30 GAS	662199.168	240.0022235	0.00142696	0.0034302	
SACRAMENT	2035	LDT2	Aggregated		30 DSL	6577.94986	222.3149856	0.00079637	0.03494482	
					<b>WEIGHTED AVERAGE 30 MPH</b>	<b>214.3079868</b>	<b>0.00107219</b>	<b>0.00354478</b>		<b>3015570.78</b>
SACRAMENT	2035	LDA	Aggregated		35 GAS	3761261.12	189.3534902	0.00078097	0.00301581	
SACRAMENT	2035	LDA	Aggregated		35 DSL	45881.5574	149.2198857	0.00023099	0.02345529	
SACRAMENT	2035	LDT1	Aggregated		35 GAS	364197.581	221.9939203	0.00106204	0.00333536	
SACRAMENT	2035	LDT1	Aggregated		35 DSL	94.0600157	374.066507	0.00192321	0.05879805	

SACRAMENT	2035 LDT2	Aggregated	35 GAS	1177061.44	222.374602	0.00117366	0.00322457	
SACRAMENT	2035 LDT2	Aggregated	35 DSL	11692.33	200.6478187	0.00063333	0.03153904	
			<b>WEIGHTED AVERAGE 35 MPH</b>	<b>198.5068037</b>	<b>0.00088129</b>	<b>0.00332152</b>	<b>5360188.1</b>	
SACRAMENT	2035 LDA	Aggregated	40 GAS	4608481.12	182.9771124	0.00067576	0.00288671	
SACRAMENT	2035 LDA	Aggregated	40 DSL	56216.3285	139.6364223	0.00019084	0.0219489	
SACRAMENT	2035 LDT1	Aggregated	40 GAS	446232.692	214.5718735	0.00091955	0.00319345	
SACRAMENT	2035 LDT1	Aggregated	40 DSL	115.246932	349.1239498	0.00171842	0.05487742	
SACRAMENT	2035 LDT2	Aggregated	40 GAS	1442193.26	214.9622418	0.00101589	0.00308721	
SACRAMENT	2035 LDT2	Aggregated	40 DSL	14326.0146	187.2687281	0.00052216	0.02943604	
			<b>WEIGHTED AVERAGE 40 MPH</b>	<b>191.7888305</b>	<b>0.00076254</b>	<b>0.00317357</b>	<b>6567564.66</b>	
SACRAMENT	2035 LDA	Aggregated	45 GAS	1785715.76	183.5893771	0.00061833	0.00280834	
SACRAMENT	2035 LDA	Aggregated	45 DSL	21782.9652	134.8780569	0.00016205	0.02120095	
SACRAMENT	2035 LDT1	Aggregated	45 GAS	172908.325	215.2901107	0.00084074	0.00310856	
SACRAMENT	2035 LDT1	Aggregated	45 DSL	44.656419	336.6147163	0.00160379	0.05291115	
SACRAMENT	2035 LDT2	Aggregated	45 GAS	558827.772	215.6753627	0.00092918	0.00300477	
SACRAMENT	2035 LDT2	Aggregated	45 DSL	5551.11097	180.5588239	0.00044217	0.02838133	
			<b>WEIGHTED AVERAGE 45 MPH</b>	<b>192.3682696</b>	<b>0.00069743</b>	<b>0.00308597</b>	<b>2544830.59</b>	
SACRAMENT	2035 LDA	Aggregated	50 GAS	1790132.74	189.3712082	0.00059896	0.00276489	
SACRAMENT	2035 LDA	Aggregated	50 DSL	21836.8455	135.2213999	0.0001406	0.02125492	
SACRAMENT	2035 LDT1	Aggregated	50 GAS	173336.015	221.9941157	0.00081259	0.00306321	
SACRAMENT	2035 LDT1	Aggregated	50 DSL	44.7668769	337.1739093	0.00156324	0.05299904	
SACRAMENT	2035 LDT2	Aggregated	50 GAS	560210.036	222.3457267	0.00089905	0.00296034	
SACRAMENT	2035 LDT2	Aggregated	50 DSL	5564.84168	180.8587729	0.0003822	0.02842848	
			<b>WEIGHTED AVERAGE 50 MPH</b>	<b>198.3492724</b>	<b>0.000675</b>	<b>0.00304321</b>	<b>2551125.24</b>	
SACRAMENT	2035 LDA	Aggregated	55 GAS	3257743.34	197.1147937	0.0006099	0.00276449	
SACRAMENT	2035 LDA	Aggregated	55 DSL	39739.4206	141.4985471	0.00012418	0.0222416	
SACRAMENT	2035 LDT1	Aggregated	55 GAS	315442.668	231.0717258	0.00082467	0.00306702	
SACRAMENT	2035 LDT1	Aggregated	55 DSL	81.4682574	352.5427899	0.00159245	0.05541482	
SACRAMENT	2035 LDT2	Aggregated	55 GAS	1019488.93	231.4292096	0.00091393	0.00296314	
SACRAMENT	2035 LDT2	Aggregated	55 DSL	10127.0847	189.1025807	0.0003358	0.02972429	
			<b>WEIGHTED AVERAGE 55 MPH</b>	<b>206.4664033</b>	<b>0.00068652</b>	<b>0.00305512</b>	<b>4642622.91</b>	
SACRAMENT	2035 LDA	Aggregated	60 GAS	2514935.47	203.6366432	0.00064782	0.00284619	
SACRAMENT	2035 LDA	Aggregated	60 DSL	30678.3157	153.4014168	0.00011764	0.02411257	
SACRAMENT	2035 LDT1	Aggregated	60 GAS	243517.636	238.9737	0.00087238	0.00316428	
SACRAMENT	2035 LDT1	Aggregated	60 DSL	62.8924348	381.8760099	0.00170951	0.06002559	
SACRAMENT	2035 LDT2	Aggregated	60 GAS	787032.191	239.4621187	0.00096884	0.00305583	
SACRAMENT	2035 LDT2	Aggregated	60 DSL	7817.97764	204.8368057	0.00031644	0.03219749	
			<b>WEIGHTED AVERAGE 60 MPH</b>	<b>213.4803993</b>	<b>0.00072833</b>	<b>0.0031609</b>	<b>3584044.49</b>	
SACRAMENT	2035 LDA	Aggregated	65 GAS	368686.329	211.470013	0.00074275	0.00292573	
SACRAMENT	2035 LDA	Aggregated	65 DSL	4497.40191	172.4542388	0.00011835	0.0271074	
SACRAMENT	2035 LDT1	Aggregated	65 GAS	35699.3744	247.8736221	0.00099475	0.00326018	
SACRAMENT	2035 LDT1	Aggregated	65 DSL	9.21995063	428.9326981	0.00192856	0.06742225	
SACRAMENT	2035 LDT2	Aggregated	65 GAS	115377.914	248.2294724	0.00110769	0.0031468	
SACRAMENT	2035 LDT2	Aggregated	65 DSL	1146.10554	230.0778301	0.00031662	0.03616503	
			<b>WEIGHTED AVERAGE 65 MPH</b>	<b>221.7260277</b>	<b>0.00083376</b>	<b>0.00327763</b>	<b>525416.344</b>	
SACRAMENT	2035 LDA	Aggregated	70 GAS	97543.7085	209.5697448	0.00078408	0.00305496	
SACRAMENT	2035 LDA	Aggregated	70 DSL	1189.88209	186.2233077	0.00011885	0.02927171	
SACRAMENT	2035 LDT1	Aggregated	70 GAS	9445.01898	246.3286244	0.00104794	0.00341108	
SACRAMENT	2035 LDT1	Aggregated	70 DSL	2.4393315	462.7773742	0.00208129	0.07274216	
SACRAMENT	2035 LDT2	Aggregated	70 GAS	30525.6494	247.0160849	0.00116835	0.00329128	
SACRAMENT	2035 LDT2	Aggregated	70 DSL	303.226282	248.2319827	0.00031674	0.03901861	
			<b>WEIGHTED AVERAGE 70 MPH</b>	<b>220.1792299</b>	<b>0.0008797</b>	<b>0.00343513</b>	<b>139009.925</b>	
			<b>WEIGHTED AVERAGE ALL SPEEDS</b>	<b>211.8484878</b>	<b>0.00093174</b>	<b>0.00334558</b>	<b>35055507</b>	
			<b>GWP ALL SPEEDS ... CO2e:</b>		<b>212.87</b>	<b>grams/mile</b>		

**APPENDIX E**  
**GHG EMISSION REDUCTIONS BEYOND AQMP AND BMP 2**  
**FROM EV CHARGING STATIONS**

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Calculation for Emissions Reduced through Electric Vehicle Charging Stations Beyond AQMP and BMP 2

1	Number of Charging Stations in Addition to the AQMP	210	
2	Connections per Charging Station	2	2 Connections at each charging station
3	Average Charging Hours per Connection per Day	3	Note 1
4	Average Total Hours Charging per year for all Connections	459,900	Item 1 * Item 2 * Item 3 * 365
5	Typical Average Charging Rate (kWh/hr)	6	Note 2
6	Total kWh charged per year	2,759,400	Item 4 * Item 5
7	Total MWh charged per year	2,759	Item 6 / 1000
8			
9	Average Efficiency of EV LDV (kWh/100 mi)	31.5	Note 3
10	Average Efficiency of EV LDV (miles per kWh)	3.2	100 mi / Item 9
11	Number of Equivalent Miles Charged per year (gasoline miles avoided)	8,760,000	Item 6 * Item 10
12			
13	SMUD CO2 intensity in 2030 (lbs/MWh)	236.9	Note 4
14			
15	ROG Running Only emission factor for gasoline vehicles in 2035 (g/mi)	0.01476	Note 5
16			
17	NOx running emission factor for gasoline vehicles in 2035 (g/mi)	0.02840	Note 5
18			
19	CO2 running emission factor for gasoline vehicles in 2035 (g/mi)	234.61	Note 5
20			
21			
22	Annual ROG Emissions Saved through Charging (tons per year)	0.14	Item 11 * Item 15 converted to tons
23	Annual NOx Emissions Saved through Charging (tons per year)	0.27	Item 11 * Item 17 converted to tons
24			
25	Annual CO2 Emissions Saved through Charging (tons per year)	2265	Item 11 * Item 19 converted to tons
26	Annual CO2 Emissions Saved through Charging (metric tons per year)	2057	Convert Item 23 to metric tons
27	Annual CO2 Emissions from Electricity required to charge (metric tons per year)	297	Item 7 * Item 13 converted to metric tons
28	Net Annual CO2 Emissions Saved (metric tons per year)	1760	Item 26 minus Item 27

Public Charging Stations in Addition to AQMP

Note 1: Drive Clean California states that it takes 4 to 6 hours to fully charge an EV. But one would not typically allow the vehicle to be empty before charging, thus assumed 3 hrs/charge.  
 Note 2: Drive Clean California states that EVs have battery capacities of 24 to 36 kWh and fully charge in 4 to 6 hours, so 6 kWh/hr.  
 Note 3: Average efficiency of 24 model year 2019 electric vehicles, per USDOE. Used only model year 2019 because vehicles will be more efficient in 2035 than in the past.  
 Note 4: From SMUD for calendar year 2030, per Memo dated January 11, 2019 from Mr. Todd Smith, Sacramento County PER.  
 Note 5: From EMFAC 2017 for gasoline engines, all models and model years; calendar year 2035.

References:  
 Drive Clean California = [https://www.driveclean.ca.gov/pev/Plug-in\\_Electric\\_Vehicles/Find\\_the\\_Right\\_PEV.php](https://www.driveclean.ca.gov/pev/Plug-in_Electric_Vehicles/Find_the_Right_PEV.php)  
 USDOE = <https://fuelconomy.gov/leg/PowerSearch.do?action=noform&path=1&year=1984&year2=2019&vtype=Electric>  
 CAPCOA = Quantifying Greenhouse Gas Mitigation Measures, August 2010 (SDT-1, page 187, footnote 45).  
 EMFAC2017 = EMFAC2017 Web Database for Calendar year 2035, Sacramento County Emissions

Home Charging Stations in Addition to BMP-2 -- Project-Related VMT	Alternative 2 Project-Related VMT	113,259,971	miles	Note 6	
	Total Alternative 2 Dwelling Units	5,690	DU		Number of HD Multi-family Dwelling Units 2,050
	Annual VMT per DU	19,905	mi/yr		Number of Additional (to BMP-2) HD Pre-Wired (57% more of HD DU) 1,169
	Percent of Pre-Wired DU with EV	15%		Note 7	
	Total EV miles	3,488,865	% Pre-Wired with EV * Number of Pre-Wired * VMT/DU		
	Alternative 2 Project-Related Mobile Only ROG	13.5	tpy	Note 6	
	Alternative 2 Project-Related Mobile Only NOX	71.4	tpy	Note 6	
	Alternative 2 Project-Related Mobile Only CO2e	35,957	metric tons per year, Note 6		
	ROG Emissions Saved	0.42	tpy ... ROG *(EV miles / Project miles)		
	NOX Emissions Saved	2.20	tpy ... NOX *(EV miles / Project miles)		
CO2e Emissions Saved	1,108	MT/yr ... CO2e *(EV miles / Project miles)			
Required electricity for charging (MWh/yr)	1,099	EV miles * kWh/100 miles			
Emissions from charging electricity (MT/yr)	118	MT/yr charging x SMUD CO2e intensity (236.9 lb/MWh) converted to MT, Note 4			
Net CO2e Emissions Saved	989	MT/yr		CO2e Emissions Saved less Emissions from charging electricity	

Home Charging Stations in Addition to BMP-2 -- Cumulative VMT	Alternative 2 Project-Related VMT	90,802,301	miles	Note 6	
	Total Alternative 2 Dwelling Units	5,690	DU		Number of HD Multi-family Dwelling Units 2,050
	Annual VMT per DU	15,958	mi/yr		Number of Additional (to BMP-2) HD Pre-Wired (57% more of HD DU) 1,169
	Percent of Pre-Wired DU with EV	15%		Note 7	
	Total EV miles	2,797,078	% Pre-Wired with EV * Number of Pre-Wired * VMT/DU		
	Alternative 2 Project-Related Mobile Only ROG	11.5	tpy	Note 6	
	Alternative 2 Project-Related Mobile Only NOX	61.1	tpy	Note 6	
	Alternative 2 Project-Related Mobile Only CO2e	28,405	metric tons per year, Note 6		
	ROG Emissions Saved	0.35	tpy ... ROG *(EV miles / Project miles)		
	NOX Emissions Saved	1.88	tpy ... NOX *(EV miles / Project miles)		
CO2e Emissions Saved	875	MT/yr ... CO2e *(EV miles / Project miles)			
Required electricity for charging (MWh/yr)	881	EV miles * kWh/100 miles			
Emissions from charging electricity (MT/yr)	95	MT/yr charging x SMUD CO2e intensity (236.9 lb/MWh) converted to MT, Note 4			
Net CO2e Emissions Saved	780	MT/yr		CO2e Emissions Saved less Emissions from charging electricity	

Note 6: From May 2019 AQMP  
 Note 7: Assumed that 15% of the multi-family residents will have an EV and thus will install a charging station.  
 Number of HD Multi-family Dwelling Units based on Jackson Township land use plan.

**APPENDIX F**  
**EMISSION REDUCTIONS OF NO<sub>x</sub> AND ROG BEYOND AQMP**  
**FROM EV CHARGING STATIONS**

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Calculation for Emissions Reduced through Electric Vehicle Charging Stations Beyond AQMP

1	Number of Charging Stations in Addition to the AQMP	210	From calculated number of electrically connected parking spaces
2	Connections per Charging Station	2	2 Connections at each charging station
3	Average Charging Hours per Connection per Day	3	Note 1
4	Average Total Hours Charging per year for all Connections	459,900	Item 1 * Item 2 * Item 3 * 365
5	Typical Average Charging Rate (kWh/hr)	6	Note 2
6	Total kWh charged per year	2,759,400	Item 4 * Item 5
7	Total MWh charged per year	2,759	Item 6 / 1000
8			
9	Average Efficiency of EV LDV (kWh/100 mi)	31.5	Note 3
10	Average Efficiency of EV LDV (miles per kWh)	3.2	100 mi / Item 9
11	Number of Equivalent Miles Charged per year (gasoline miles avoided)	8,760,000	Item 6 * Item 10
12			
13	SMUD CO2 intensity in 2030 (lbs/MWh)	236.9	Note 4
14			
15	ROG Running Only emission factor for gasoline vehicles in 2035 (g/mi)	0.01476	Note 5
16			
17	NOx running emission factor for gasoline vehicles in 2035 (g/mi)	0.02840	Note 5
18			
19	CO2 running emission factor for gasoline vehicles in 2035 (g/mi)	234.61	Note 5
20			
21			
22	Annual ROG Emissions Saved through Charging (tons per year)	0.14	Item 11 * Item 15 converted to tons
23	Annual NOx Emissions Saved through Charging (tons per year)	0.27	Item 11 * Item 17 converted to tons
24			
25	Annual CO2 Emissions Saved through Charging (tons per year)	2265	Item 11 * Item 19 converted to tons
26	Annual CO2 Emissions Saved through Charging (metric tons per year)	2057	Convert Item 23 to metric tons
27	Annual CO2 Emissions from Electricity required to charge (metric tons per year)	297	Item 7 * Item 13 converted to metric tons
28	Net Annual CO2 Emissions Saved (metric tons per year)	1760	Item 26 minus Item 27

Public Charging Stations in Addition to AQMP

Home Charging Stations in Addition to AQMP -- Project-Related VMT	Alternative 2 Project-Related VMT	113,259,971	miles	Note 6	
	Total Alternative 2 Dwelling Units	5,690	DU		Number of HD Multi-family Dwelling Units 2,050
	Annual VMT per DU	19,905	mi/yr		Number of Additional (to AQMP) HD Pre-Wired (67% add of HD DU) 1,374
	Percent of Pre-Wired DU with EV	15%		Note 7	
	Total EV miles	4,100,946	% Pre-Wired with EV * Number of Pre-Wired * VMT/DU		
	Alternative 2 Project-Related Mobile Only ROG	13.5	tpy	Note 6	
	Alternative 2 Project-Related Mobile Only NOx	71.4	tpy	Note 6	
	Alternative 2 Project-Related Mobile Only CO2e	35,957	metric tons per year, Note 6		
	ROG Emissions Saved	0.49	tpy ... ROG *(EV miles / Project miles)		
	NOx Emissions Saved	2.59	tpy ... NOx *(EV miles / Project miles)		
CO2e Emissions Saved	1,302	MT/yr ... CO2e *(EV miles / Project miles)			
Required electricity for charging (MWh/yr)	1,292	EV miles * kWh/100 miles			
Emissions from charging electricity (MT/yr)	139	MT/yr		MWh/yr charging x SMUD CO2e intensity (236.9 lb/MWh) converted to MT, Note 4	
Net CO2e Emissions Saved	1,163	MT/yr		CO2e Emissions Saved less Emissions from charging electricity	

Home Charging Stations in Addition to AQMP -- Cumulative VMT	Alternative 2 Project-Related VMT	90,802,301	miles	Note 6	
	Total Alternative 2 Dwelling Units	5,690	DU		Number of HD Multi-family Dwelling Units 2,050
	Annual VMT per DU	15,958	mi/yr		Number of Additional (to AQMP) HD Pre-Wired (67% add of HD DU) 1,374
	Percent of Pre-Wired DU with EV	15%		Note 7	
	Total EV miles	3,287,793	% Pre-Wired with EV * Number of Pre-Wired * VMT/DU		
	Alternative 2 Project-Related Mobile Only ROG	11.5	tpy	Note 6	
	Alternative 2 Project-Related Mobile Only NOx	61.1	tpy	Note 6	
	Alternative 2 Project-Related Mobile Only CO2e	28,405	metric tons per year, Note 6		
	ROG Emissions Saved	0.42	tpy ... ROG *(EV miles / Project miles)		
	NOx Emissions Saved	2.21	tpy ... NOx *(EV miles / Project miles)		
CO2e Emissions Saved	1,028	MT/yr ... CO2e *(EV miles / Project miles)			
Required electricity for charging (MWh/yr)	1,036	EV miles * kWh/100 miles			
Emissions from charging electricity (MT/yr)	111	MT/yr		MWh/yr charging x SMUD CO2e intensity (236.9 lb/MWh) converted to MT, Note 4	
Net CO2e Emissions Saved	917	MT/yr		CO2e Emissions Saved less Emissions from charging electricity	

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 Note 2: Drive Clean California states that EVs have battery capacities of 24 to 36 kWh and fully charge in 4 to 6 hours, so 6 kWh/hr.  
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Note 6: From May 2019 AQMP  
 Note 7: Assumed that 15% of the multi-family residents will have an EV and thus will install a charging station.  
 Number of HD Multi-family Dwelling Units based on Jackson Township land use plan.