

# **Air Quality Impact and Greenhouse Gas Analysis**

## **Parcel 49 Project**

Prepared for:

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## Introduction

This Air Quality Impact and Greenhouse Gas Analysis identifies and analyzes the potential environmental impacts from the Parcel 49 Project (proposed project) related to air quality and greenhouse gas (GHG) emissions. The information and analysis in this document is organized in accordance with the checklist in Appendix G of the California Environmental Quality Act (CEQA) Guidelines. If the analysis provided in this document identifies potentially significant environmental effects of the project, mitigation measures that should be applied to the project are prescribed. All modeling results are included as Appendix A to this document.

## Project Summary

The proposed project site consists of 58.9 acres and is located at 9000 Washington Boulevard in the City of Roseville, California (see Figure 1, Regional Project Location). The site represents Parcel 49 of the North Central Roseville Specific Plan (NCRSP) area, identified as Assessor's Parcel Numbers (APNs) 363-020-018 and -019. The project site is bound by Washington Boulevard to the west, State Route (SR) 65 to the east, Blue Oaks Boulevard to the north, and an existing creek to the south (see Figure 2, Project Vicinity Map). Land uses to the west of the site include vacant land just across Washington Boulevard, and industrial uses to the north and south of the vacant land. To the south of the site is existing residential development. To the east and north of the project site across from the existing creek and SR 65, respectively, are retail uses. The project site is currently vacant and consists primarily of ruderal vegetation.

Per the existing zoning designations for the site, a total of 1,200,000 square feet of office and retail uses are currently permitted to be built on the site. The proposed project includes a mix of uses for the site with a total square footage of 387,400. A summary of the proposed uses compared to what is currently permitted under existing zoning for the site is presented in Table 1 below.

<b>Proposed Project</b>		<b>Currently Permitted Under Existing Zoning</b>	
<b>Uses</b>	<b>Square Feet</b>	<b>Uses</b>	<b>Square Feet</b>
Restaurants	11,200	Office	960,000
Office	116,500	Retail	240,000
Retail	37,800		
Topgolf	64,000		
Hotel (125 Rooms)	27,900		
Church	130,000		
<b>TOTAL</b>	<b>387,400</b>		<b>1,200,000</b>

As shown in the table, the proposed project would consist of a mixed-use commercial development, including a 130,000-square-foot church campus, a 64,000-square-foot Topgolf facility, a 125-room hotel, 116,500 square feet of office space, 37,800 square feet of retail, and 11,200 square feet of restaurant space. In addition, the proposed project would include a 25-space park-and-ride lot adjacent to the planned bus stop/shelter on Washington Boulevard. The project site plan is presented in Figure 3.

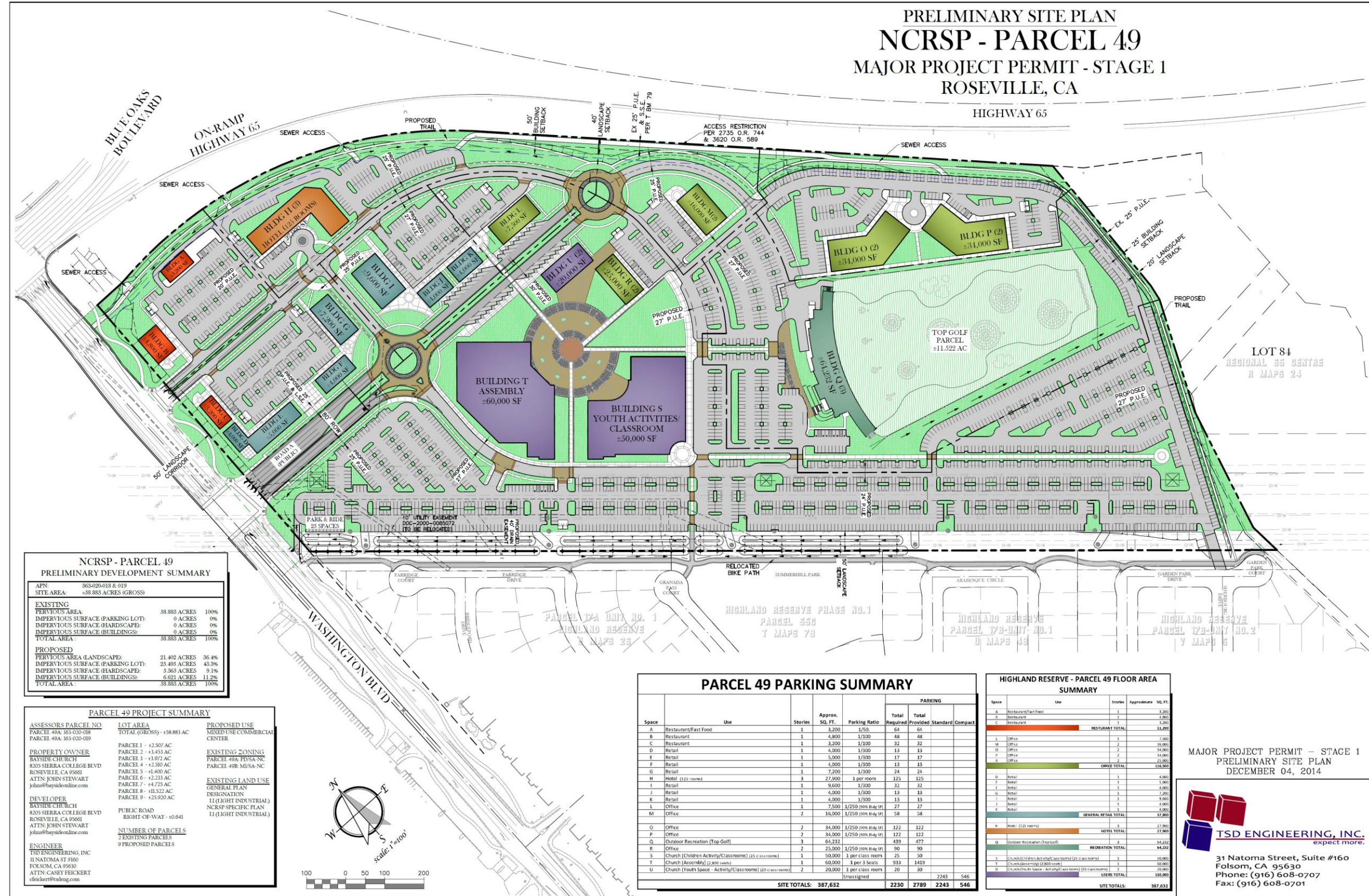
**Figure 1**  
**Regional Project Location**



**Figure 2**  
**Project Vicinity Map**



Figure 3  
Proposed Project Site Plan



The proposed project includes the following requested entitlements:

- Tentative Map approval;
- Major Project Permit Stage 1 for Overall Site Plan approval;
- Major Project Permit Stage 2 for Topgolf; and
- Conditional Use Permit for Topgolf.

Construction of the proposed project is anticipated to occur over three phases. The first phase of development is anticipated to commence in October 2015, which includes site preparation for the entire project site and construction of the Topgolf portion of the proposed project. The second phase of development, which is anticipated to commence in June 2017, would include construction of a total of 193,400 square feet of office, hotel, restaurants, and retail uses. The third and final phase of development would include the church use and is anticipated to commence in 2020.

It should be noted that the proposed project would incorporate a variety of sustainable design features, which would include, but not necessarily be limited to, the following:

- Provision of physical improvements, such as sidewalk improvements, walkway enhancements, landscaping, pavement markings, and bicycle parking that would act as incentives for pedestrian and bicycle modes of travel;
- Connection of the site with a regional bikeway/pedestrian trail system;
- Improvements to the existing bikeway/pedestrian trail system, including landscape treatment and widening in some locations;
- Provision of secure and conveniently located short-term and long-term bicycle parking facilities for workers and patrons to meet peak season maximum demand;
- Provision of “end-of-trip” bicycle facilities at the office component of the proposed project, which would include showers, lockers, and changing space;
- Construction of transit amenities such as bus turnouts/bus bulbs, benches, shelters, etc. in coordination with Roseville Transit;
- Provision of direct, safe, attractive pedestrian access from project land uses to transit stops and adjacent development; and
- Provision of shade trees near buildings to shield the sun’s rays and reduce local air temperature and cooling energy demand consistent with the City of Roseville area shading requirements.

Furthermore, due to the project location, the following site features are inherent in the proposed project design:

- Within walking distance to public transportation;
- Existing network of pedestrian and bicycle connections;
- Near major transportation route (i.e., SR 65);
- Near residential development; and
- Near existing commercial uses, including retail and restaurants.

## Sources

1. California Air Pollution Control Officers Association. *Quantifying Greenhouse Gas Mitigation Measures*. August 2010.
2. California Air Resources Board. *Air Quality and Land Use Handbook: A Community Health Perspective*. April 2005.
3. California Air Resources Board. *Ambient Air Quality Standards*. Available at: <http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>. June 7, 2012.
4. California Air Resources Board. *Climate Change Scoping Plan*. December 2008.
5. California Air Resources Board. *Final Supplement to the AB 32 Scoping Plan Functional Equivalent Document*. August 19, 2011.
6. California Building Standards Commission. *2013 California Building Energy Efficiency Standards Code* [Title 24, Part 6 of the California Code of Regulations]. Effective July 1, 2014.
7. California Building Standards Commission. *2013 California Green Building Standards Code (CALGreen)* [Title 24, Part 11 of the California Code of Regulations]. Effective January 1, 2014.
8. ENVIRON International Corporation and the California Air Districts. *California Emissions Estimator Model User's Guide Version 2013.2*. July 2013.
9. Fehr & Peers. *Transportation Impact Study Report for North Central Roseville Specific Plan – Parcel 49*. November 14, 2014.
10. Placer County Air Pollution Control District. *CEQA Air Quality Handbook*. October 11, 2012.
11. Sacramento Metropolitan Air Quality Management District. *Guide to Air Quality Assessment in Sacramento County*. December 2009.
12. Sacramento Metropolitan Air Quality Management District. *Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan (2013 SIP Revisions)*. September 26, 2013.

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

**Discussion**

- a. The proposed project site is located within the Sacramento Valley Air Basin (SVAB) and is under the jurisdiction of the Placer County Air Pollution Control District (PCAPCD). The SVAB is designated nonattainment for the federal particulate matter 2.5 microns in diameter (PM<sub>2.5</sub>) and the State particulate matter 10 microns in diameter (PM<sub>10</sub>) standards, as well as for both the federal and State ozone standards. The federal Clean Air Act requires areas designated as federal nonattainment to prepare an air quality control plan referred to as the State Implementation Plan (SIP). The SIP contains the strategies and control measures for states to use to attain the national ambient air quality standards (NAAQS). The SIP is periodically modified to reflect the latest emissions inventories, planning documents, rules, and regulations of air basins as reported by the agencies with jurisdiction over them. In compliance with regulations, the PCAPCD periodically prepares and updates air quality plans that provide emission reduction strategies to achieve attainment of the NAAQS, including control strategies to reduce air pollutant emissions via regulations, incentive programs, public education, and partnerships with other agencies.

The current applicable air quality plan for the proposed project area is the *Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan* (Ozone Attainment Plan), adopted by the PCAPCD on February 19, 2009. The California Air Resources Board (CARB) determined that the Ozone Attainment Plan met federal Clean Air Act requirements and approved the Plan on March 26, 2009 as a revision to the SIP. Revisions to the Placer County portion of the SIP or Ozone Attainment Plan were made and adopted on August 11, 2011. In addition, an update to the plan, *2013 Revisions to the Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan* (2013 Ozone Attainment Plan), has been prepared and was adopted on September 26, 2013, and approved by CARB as a revision to the SIP on November 21, 2013. The 2013

Ozone Attainment Plan was submitted to the U.S. Environmental Protection Agency (USEPA) as a revision to the SIP on December 31, 2013. The USEPA determined the motor vehicle emission budgets in the Plan to be adequate and made such findings effective August 25, 2014. In addition, the USEPA proposes to approve and promulgate the 2013 Ozone Attainment Plan. The comment period for the proposed rule ended November 14, 2014, and the USEPA's final ruling is pending.

The 2013 Ozone Attainment Plan demonstrates how existing and new control strategies would provide the necessary future emission reductions to meet the CAA requirements, including the NAAQS. It should be noted that in addition to strengthening the 8-hour ozone NAAQS, the USEPA also strengthened the secondary 8-hour ozone NAAQS, making the secondary standard identical to the primary standard. The SVAB remains classified as a severe nonattainment area with an attainment deadline of 2027. The USEPA is in the process of preparing the final implementation rule of the revised NAAQS for ozone to address the requirements for reasonable further progress, modeling and attainment demonstrations, and reasonably available control measures (RACM) and reasonably available control technology (RACT). The actions of the air districts within the SVAB are pending the publication of the final rule.

A project would be considered to conflict with, or obstruct implementation of, regional air quality plans if the project would be inconsistent with the emissions inventories contained in the regional air quality plan and/or result in emissions that exceed the PCAPCD established thresholds of significance. Emission inventories are developed based on projected increases in population, employment, regional vehicle miles traveled (VMT), and associated area sources within the region, which are based on regional projections that are, in turn, based on the City's General Plan and zoning designations for the region. The proposed project would be consistent with what is anticipated for the site per the existing zoning for the site. The proposed project is consistent with the existing zoning on the site. Thus, Bayside Church, offices, restaurants, a hotel and indoor entertainment are all permitted uses in the Planned Development zone, as well as outdoor entertainment uses are conditionally permitted and allowed with approval of a conditional use permit. The proposed project would result in substantially less square footage than what is currently allowable per the existing zoning for the site. As a result, the proposed project would decrease the number of vehicle trips associated with the site from what is currently anticipated. Because emissions inventories were determined based on allowed uses per the City's land use and/or zoning designations, overall emissions related to buildout of the site would be less with implementation of the proposed project than what would have been included in the emissions inventories of the 2013 Ozone Attainment Plan. Furthermore, the PCAPCD's permits, rules, and regulations are in compliance with the 2013 Ozone Attainment Plan, and the proposed project is required to comply with all PCAPCD rules and regulations.

General conformity requirements of the Plan include whether a project would cause or contribute to new violations of any NAAQS, increase the frequency or severity of an existing violation of any NAAQS, or delay timely attainment of any NAAQS. As analyzed and determined in the discussions below, the proposed project would not result

in emissions that exceed the recommended PCAPCD’s thresholds of significance. Thus, the project would not cause or contribute to new violations of any NAAQS, increase the frequency or severity of an existing violation of any NAAQS, or delay timely attainment of any NAAQS.

Because the proposed project would not conflict with the emissions inventories of the regional air quality plan, would result in emissions below PCAPCD thresholds of significance, and would not conflict with or obstruct implementation of the applicable air quality plan, impacts would be considered *less than significant*.

- b. In order to evaluate ozone and other criteria air pollutant emissions and support attainment goals for those pollutants that the area is designated nonattainment, the PCAPCD recommends significance thresholds for emissions of PM<sub>10</sub>, carbon monoxide (CO), and ozone precursors – reactive organic gases (ROG) and nitrous oxides (NO<sub>x</sub>). The significance thresholds, expressed in pounds per day (lbs/day), listed in Table 2 are the PCAPCD’s recommended thresholds of significance for use in the evaluation of air quality impacts associated with proposed development projects. The City of Roseville, as lead agency, utilizes the PCAPCD’s recommended project-level criteria air pollutant thresholds of significance for CEQA evaluation purposes. Thus, if the proposed project’s emissions exceed the pollutant thresholds presented in Table 2, the project could have a significant effect on air quality and the attainment of federal and State AAQS.

<b>Pollutant</b>	<b>Construction/Operational Threshold (lbs/day)</b>
ROG	82
NO <sub>x</sub>	82
PM <sub>10</sub>	82
CO	550
<i>Source: PCAPCD, 2012.</i>	

Implementation of the proposed project would contribute local emissions in the area during both the construction and operation of the proposed project. The proposed project’s short-term construction-related and long-term operational emissions were estimated using the California Emissions Estimator Model (CalEEMod) version 2013.2.2 software - a statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify air quality emissions, including GHG emissions, from land use projects. The model applies inherent default values for various land uses, including trip generation rates based on the ITE Manual, vehicle mix, trip length, average speed, etc. However, where project-specific data was available, such data was input into the model (e.g., construction phases and timing, projected trip rate, sustainable design features, etc.).

## Construction Emissions

During construction of the project, various types of equipment and vehicles would temporarily operate on the project site. Construction exhaust emissions would be generated from construction equipment, earth movement activities, construction workers' commute, and construction material hauling for the entire construction period. The aforementioned activities would involve the use of diesel- and gasoline-powered equipment that would generate emissions of criteria pollutants. Project construction activities also represent sources of fugitive dust, which includes PM emissions. As construction of the proposed project would generate air pollutant emissions intermittently within the site, and in the vicinity of the site, until all construction has been completed, construction is a potential concern because the proposed project is in a nonattainment area for ozone and PM.

The project is required to comply with all PCAPCD rules and regulations for construction, including, but not limited to, the following (which would be noted on City-approved construction plans):

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

In addition, the City has adopted design and construction standards that apply to all projects within the City limits that require projects to meet specific engineering and design requirements. The proposed project would be required to comply with the City of Roseville Design and Construction Standards, including Section 111, which is intended to minimize fugitive dust and PM<sub>10</sub> emissions during construction activities. Compliance with the engineering and design requirements would be noted on City-approved construction plans as well.

As shown in Table 2 above, the PCAPCD threshold of significance for construction is 82 pounds per day for ROG, NO<sub>x</sub>, and PM<sub>10</sub> and 550 pounds per day for CO. Table 3 below presents the maximum estimated construction-related emissions of ROG, NO<sub>x</sub>, PM<sub>10</sub>, and CO resulting from the proposed project. CalEEMod inherently accounts for applicable PCAPCD rules, with the exception of Rule 218 related to architectural coatings; accordingly, the modeling was adjusted to reflect that the project would use only low volatile organic compound (VOC) paints per PCAPCD rules and regulations.

	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>PM<sub>10</sub></b>	<b>CO</b>
Proposed Project	49.43	79.13	21.30	93.28
PCAPCD Thresholds	82.0	82.0	82.0	550.0
<b>Exceed Thresholds?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>

*Source: CalEEMod, January 2015 (see Appendix A).*

As Table 3 indicates, the project’s maximum unmitigated construction-related emissions would be below the applicable thresholds of significance. Therefore, construction activities associated with development of the proposed project would not substantially contribute to the PCAPCD’s nonattainment status for ozone or PM, and a less-than-significant impact associated with construction emissions would occur.

Operational Emissions

Operational emissions of ROG, NO<sub>x</sub>, CO, and PM<sub>10</sub> would be generated by the proposed project from mobile and area sources. Day-to-day activities such as future employee and patron vehicle trips to and from the project site would make up the majority of the mobile emissions. Emissions would also occur from area sources such as natural gas combustion from heating mechanisms, landscape maintenance equipment exhaust, and consumer products (e.g., deodorants, cleaning products, spray paint, etc.).

As stated above, the project is required to comply with all PCAPCD rules and regulations, such as those listed previously for construction, as well as those applicable to operations including Rule 205 associated with nuisance. CalEEMod inherently accounts for applicable PCAPCD rules, with the exception of Rule 218 related to architectural coatings. Accordingly, the modeling was adjusted to reflect that the project would only use low VOC paints per PCAPCD rules and regulations. In addition, the project’s anticipated trip rate, inherent site or project design features (i.e., pedestrian network improvements and proximity to nearest bus stop), and compliance with applicable regulations (i.e., California Building Energy Efficiency Standards) have been included in the project modeling.

The total estimated operational emissions for the proposed project are presented below in Table 4.

<b>Table 4</b>				
<b>Maximum Project Operational Emissions<sup>1</sup></b>				
	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>PM<sub>10</sub></b>	<b>CO</b>
Proposed Project <sup>1</sup>	76.89	61.42	62.77	319.08
PCAPCD Thresholds	82.0	82.0	82.0	550.0
<b>Exceed Thresholds?</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>	<b>NO</b>
<sup>1</sup> Includes use of only low VOC paints, pedestrian network improvements, proximity to nearest bus stop, and compliance with the California Building Energy Efficiency Standards.				
<i>Source: CalEEMod, January 2015 (see Appendix A).</i>				

As indicated in Table 4, the project’s operational emissions would be below the PCAPCD’s recommended thresholds. Accordingly, the project would not substantially contribute to the PCAPCD’s nonattainment status of ozone or PM, and related impacts would be considered less than significant.

## Conclusion

The proposed project would not exceed the applicable thresholds of significance for air pollutant emissions during construction or operation. Therefore, the project would not substantially contribute to the PCAPCD's nonattainment status for ozone or PM and would not violate any air quality standards. Accordingly, impacts would be considered *less than significant*.

- c. The SVAB is designated nonattainment for both the federal and State ozone standards. In order to improve air quality and attain the health-based standards, reductions in emissions are necessary within nonattainment areas. The project is part of a pattern of urbanization occurring in the greater Sacramento ozone nonattainment area. The growth and combined population, vehicle usage, and business activity within the nonattainment area from the project, in combination with other past, present, and reasonably foreseeable projects within Placer County and surrounding areas, could either delay attainment of the standards or require the adoption of additional controls on existing and future air pollution sources to offset emission increases. Thus, the project could be considered to contribute towards cumulative regional air quality effects from emissions of criteria air pollutants.

To aid in determining an individual project's cumulative contribution to regional air quality, the PCAPCD suggests a 10 pounds per day level for ROG and NO<sub>x</sub> emissions at which point a project is recommended to implement mitigation measures that would reduce the project's contribution towards cumulative emissions. However, the City, as lead agency, prefers to rely on a two-tier criteria pollutant cumulative analysis methodology similar to that adopted by the Sacramento Metropolitan Air Quality Management District (SMAQMD), as outlined in the SMAQMD *Guide to Air Quality Assessment in Sacramento County*. That is, if a project would not result in significant project-level criteria air pollutant emissions for which the region is designated non-attainment (i.e., would not exceed the PCAPCD recommended operational project-level threshold of 82 lbs/day for ROG or NO<sub>x</sub>), project emissions would not be considered cumulatively considerable and a less-than-significant cumulative impact would result. However, should a project exceed the thresholds, a Tier 2 evaluation should be conducted to determine SIP consistency to determine if a substantial lessening of impact would occur in accordance with CEQA Guidelines Section 15064(h)(3). Under the Tier 2 analysis, projects found consistent with the SIP and which would not conflict with the SIP emissions budget are considered less than cumulatively considerable. The City finds the above methodology appropriate to Roseville projects considering the City is located within the SVAB, the same air basin where the above methodology is utilized by numerous CEQA lead agencies with concurrence and support from the SMAQMD.

### Tier 1: Cumulative Emissions Threshold

As shown in Table 4 above, the project's operational emissions are predicted to be below the City's recognized project-level threshold. In addition, the proposed project includes a variety of sustainability design features and inherent site location features that would

contribute to a reduction in overall project-related emissions. Therefore, the proposed project would not result in a substantial cumulative contribution of criteria air pollutants, and the cumulative impact is found to be less than significant based on the City's Tier 1 threshold evaluation methodology. Given this finding, a Tier 2 evaluation is not required. However, as discussed above, the proposed project would result in overall fewer emissions than what has been anticipated for buildout of the site in the applicable air quality plan per the existing zoning. As such, the project would result in fewer emissions than anticipated by such and, thus, would not conflict with or obstruct implementation of the applicable air quality plan. For the aforementioned reasons, and the fact that the air quality plan has been shown to substantially lessen cumulative emissions from land use projects, according to CEQA Section 15064(h)(3), the project's incremental contribution to regional emissions would not be cumulatively considerable under a Tier 2 evaluation. Therefore, under either a Tier 1 or Tier 2 evaluation, the proposed project would result in a *less-than-significant* cumulative impact to air quality.

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

#### Localized CO Emissions

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

In accordance with the State CO Protocol, the PCAPCD recommends further analysis for localized CO concentrations if any intersection or roundabout is determined by a traffic study to degrade to a LOS E or F as a result of a project, alone or cumulatively, or if total project-level CO emissions exceed 550 pounds per day. As shown above, the proposed project would result in CO emissions of 319.08 lbs/day during operations, which would be well below the PCAPCD's 550 pounds per day threshold of significance. According to the Transportation Impact Study prepared for the proposed project, all intersections would operate at acceptable levels (LOS D or better) with implementation of the mitigation measures set forth in the Transportation Impact Study, which require a northbound right-turn pocket of 250 feet to be constructed on Washington Boulevard at the Blue Oaks Boulevard/Washington Boulevard intersection. The mitigation measures would be required for the proposed project to reduce impacts to less than significant, would be incorporated into the project, and adopted as conditions of approval that would be enforced by the City. Accordingly, the intersections would operate acceptably with implementation of the proposed project, as the project would include the necessary

mitigation measures to reduce all impacts at the affected intersections. Thus, further CO analysis would not be required, as the above intersections would operate at acceptable levels with implementation of the required mitigation measures.

Furthermore, the proposed project would result in fewer vehicle trips than anticipated for buildout of the site per the currently permitted uses. Therefore, further CO analysis is not required and the proposed project would not be expected to result in substantial concentrations of CO emissions at any intersection.

### TAC Emissions

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

Some land uses are considered more sensitive to air pollution than others, due to the types of population groups or activities involved. Heightened sensitivity may be caused by health problems, proximity to the emissions source, and/or duration of exposure to air pollutants. Children, pregnant women, the elderly, and those with existing health problems are especially vulnerable to the effects of air pollution. Sensitive receptors are typically defined as facilities where sensitive receptor population groups (i.e., children, the elderly, the acutely ill, and the chronically ill) are likely to be located. Accordingly, land uses that are typically considered to be sensitive receptors include residences, schools, playgrounds, childcare centers, retirement homes, convalescent homes, hospitals, and medical clinics.

The proposed project would consist of a mix of commercial and office uses, which are not typically considered sensitive receptors. Although the project includes a hotel, church, and other uses where people tend to congregate, substantial numbers of sensitive individuals would not be expected to be on-site for any extended periods of time. Therefore, the proposed project would not be considered a sensitive receptor and, thus, would not expose any new sensitive receptors to any substantial pollutant concentrations associated with any existing nearby operations.

Operational-related emissions of TACs are typically associated with stationary diesel engines or land uses that involve heavy truck traffic or idling. The project does not involve long-term operation of any stationary diesel engine or other major on-site stationary source of TACs. The CARB's Handbook includes facilities (distribution

centers) with associated diesel truck trips of more than 100 trucks per day as a source of substantial TAC emissions. The project is not a distribution center and is not anticipated to receive 100 deliveries per day or more. In addition, heavy-duty diesel vehicles are prohibited from idling for more than five minutes per CARB regulations. Accordingly, the proposed project would not involve diesel truck trips in excess of 100 per day, and, overall, the proposed project would not expose any existing sensitive receptors (i.e., nearby residences to the south) to any new permanent or substantial TAC emissions.

It should be noted that construction activities have the potential to generate DPM emissions related to the number and types of equipment typically associated with construction. Off-road heavy-duty diesel equipment used for site grading, paving, and other construction activities result in the generation of DPM. The nearby residences could become temporarily exposed to DPM emissions from the site during construction activities. However, construction is temporary and occurs over a relatively short duration in comparison to the operational lifetime of the proposed project. In addition, only portions of the site would be disturbed at a time during buildout of the proposed project, with operation of construction equipment regulated by PCAPCD rules and regulations, restricted to certain hours per the City of Roseville Noise Ordinance, and occurring intermittently throughout the course of a day. Thus, the likelihood that any one sensitive receptor would be exposed to high concentrations of DPM for any extended period of time would be very low. Because health risks associated with exposure to DPM or any TAC are correlated with high concentrations over a long period of exposure (e.g., over a 70-year lifetime), the temporary, intermittent construction-related DPM emissions would not be expected to cause any health risks to nearby sensitive receptors. Thus, construction of the proposed project would not expose any nearby existing sensitive receptors to any substantial adverse concentrations of TACs.

Because the proposed project would not introduce new sensitive receptors to the area, would not affect any existing sensitive receptors, and is not located near any substantial sources of TACs, development of the proposed project would not expose sensitive receptors to substantial pollutant concentrations.

### Conclusion

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

- e. Odors are generally regarded as an annoyance rather than a health hazard. Due to the subjective nature of odor impacts, the number of variables that can influence the potential for an odor impact, and the variety of odor sources, quantitative methodologies to determine the presence of a significant odor impact do not exist. According to the CARB's Handbook, some of the most common sources of odor complaints received by local air districts are sewage treatment plants, landfills, recycling facilities, waste transfer stations, petroleum refineries, biomass operations, autobody shops, coating operations, fiberglass manufacturing, foundries, rendering plants, and livestock operations. The

proposed project site is not located near any such land uses, and the project would not introduce any such land uses.

Commercial and office uses are not typically associated with the creation of objectionable odors. However, restaurants, especially fast food restaurants, can generate substantial sources of odors as a result of cooking processes and waste disposal. Char broilers, deep-fryers, and ovens tend to produce food odors that can be considered offensive to some people. The food waste produced by restaurants can putrefy if not properly managed, which can also produce objectionable odors. The proposed project is anticipated to include restaurant uses that would involve food preparation, including charbroiling that could result in cooking exhaust and smoke, and would produce food waste. As odors are highly subjective, one receptor may consider cooking exhaust and related smoke an acceptable odor, while another receptor may find such odors objectionable. Nonetheless, the restaurant uses would be required to comply with all State and local regulations associated with cooking equipment and controls such as grease filtration and removal systems, exhaust hood systems, and blowers to move air into the hood systems, through air cleaning equipment, and then outdoors. Such equipment would ensure that pollutants associated with smoke and exhaust from cooking surfaces would be captured and filtered, allowing only filtered air to be released into the atmosphere. Furthermore, the areas on the project site that would involve food preparation would be located near the center or in the northeastern portions of the site, separated by a landscape buffer and parking lot areas from the nearest existing sensitive receptors (i.e., nearby residences to the south). Because odors associated with cooking exhaust would be minimized and odors dissipate with distance, such odors would not be considered a major source of objectionable odors that would affect a substantial number of people.

Decomposition of biological materials, such as food waste and other trash, could create objectionable odors if not properly contained and handled. The proposed project would provide waste receptacles throughout the facilities and would utilize outdoor trash dumpsters with lids, which would be picked up regularly during normal solid waste collection operating hours within the City. The dumpster lids are intended to contain odors emanating from the dumpsters. The garbage collected on-site and stored in the outdoor dumpsters would not be on-site long enough to cause substantial odors. Thus, the outdoor, enclosed, and covered trash dumpsters that would be picked up regularly would provide proper containment and handling of the trash generated on-site.

Diesel fumes from construction equipment and delivery trucks are often found to be objectionable; however, as discussed above, construction is temporary and diesel emissions would be minimal and regulated through compliance with the PCAPCD's rules and regulations. In addition, the project site is not considered a sensitive receptor and would not be substantially affected by any existing sources of odors, including potential odors associated with emissions of DPM from the nearby freeway traffic. Thus, odors related to DPM would not be expected to be considerable or affect a substantial number of people.

PCAPCD Rule 205, Nuisance, addresses the exposure of “nuisance or annoyance” air contaminant discharges, including odors, and provides enforcement of odor control. Rule 205 is complaint-based, where if public complaints are sufficient to cause the odor source to be considered a public nuisance, then the PCAPCD is required to investigate the identified source, as well as determine and ensure a solution for the source of the complaint, which could include operational modifications to correct the nuisance condition. Thus, although not anticipated, if odor or air quality complaints are made upon development of the proposed project, the PCAPCD would be required (per PCAPCD Rule 205) to ensure that such complaints are addressed and mitigated, as necessary. Therefore, overall, the proposed project would not create objectionable odors that would affect a substantial number of people, and a *less-than-significant* impact would occur.

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

**Discussion**

a,b. Emissions of GHGs contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on Earth. A project’s GHG emissions are at a micro-scale relative to global emissions, but could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact.

In September 2006, then-Governor Arnold Schwarzenegger signed Assembly Bill (AB) 32, which requires that statewide GHG emissions be reduced to 1990 levels by the year 2020. AB 32 delegated the authority for implementation to the CARB and directs the CARB to enforce the statewide cap. In accordance with AB 32, CARB prepared the *Climate Change Scoping Plan* (Scoping Plan) for California, which was approved in 2008. The Scoping Plan provides the outline for actions to reduce California’s GHG emissions. Based on the reduction goals called for in the 2008 Scoping Plan, a 29 percent reduction in GHG levels relative to a Business As Usual (BAU) scenario would be required to meet 1990 levels by 2020. A BAU scenario is a baseline condition based on what could or would occur on a particular site in the year 2020 without implementation of a proposed project or any required or voluntary GHG reduction measures. A project’s BAU scenario is project and site specific, and varies from project to project.

In 2011, the baseline or BAU level for the Scoping Plan was revised to account for the economic downturn and State regulation emission reductions (i.e., Pavley, Low Carbon Fuel Standard [LCFS], and Renewable Portfolio Standard [RPS]). Again, the BAU condition is project site specific and varies. The BAU scenario is based on what could or would occur on a particular site in the year 2020 without implementation of a proposed project or consideration of any State regulation emission reductions or voluntary GHG reduction measures. Accordingly, the Scoping Plan emission reduction target from BAU levels required to meet 1990 levels by 2020 was modified from 29 percent to 21.7 percent (where BAU levels is based on 2010 levels). The amended Scoping Plan was re-approved August 24, 2011.

The PCAPCD recommends that the threshold of significance for GHG emissions selected by lead agencies be related to compliance with AB 32 reduction goals (i.e., whether a

project's GHG emissions would substantially hinder the State's ability to attain the reduction goals of AB 32, where the reduction goal is reducing statewide GHG emissions from BAU emissions sufficient to meet 1990 levels by 2020). In accordance with CARB and PCAPCD recommendations, the City of Roseville, as lead agency, requires a quantitative GHG analysis for development projects in order to demonstrate a project would promote sustainability and implement operational GHG emission reduction strategies that would reduce GHG emissions according to the emission reduction targets of the Scoping Plan. Thus, the City utilizes a threshold of a 21.7 percent reduction from BAU levels, where BAU levels are based on 2010 levels (i.e., then-current Title 24 and mobile emissions), and estimated 2020 levels. Therefore, if the proposed project does not show a 21.7 percent reduction of project-related GHG emissions between BAU levels and estimated 2020 levels, the project would be considered to result in a cumulatively considerable contribution to global climate change.

GHG emission reduction measures could include, but are not limited to, compliance with local, State, or federal plans or strategies for GHG reductions, on-site and off-site mitigation recommendations from the Office of the Attorney General, and sustainable design features. It should be noted that the proposed project would be required to comply with the minimum mandated measures of the most recent CALGreen Code, which includes such measures as compliance with California Building Energy Efficiency Standards, a 20 percent mandatory reduction in indoor water use, and diversion of 50 percent of construction waste from landfills. A variety of voluntary CALGreen Code measures also exist that would further reduce GHG emissions, but are not mandatory.

Implementation of the proposed project along with other past, present, and reasonably foreseeable future projects would contribute to increases of GHG emissions that are associated with global climate change. Estimated GHG emissions attributable to future development would be primarily associated with increases of CO<sub>2</sub> and other GHG pollutants, such as methane (CH<sub>4</sub>) and nitrous oxide (N<sub>2</sub>O), from mobile sources and utility usage. The proposed project's short-term construction-related and long-term operational GHG emissions were estimated using the CalEEMod software. The model quantifies direct GHG emissions from construction and operation (including vehicle use), as well as indirect GHG emissions, such as GHG emissions from energy use, solid waste disposal, and water use. Emissions are expressed in annual metric tons of CO<sub>2</sub> equivalent units of measure (i.e., MTCO<sub>2e</sub>), based on the global warming potential of the individual pollutants.

Short-Term Construction GHG Emissions

Estimated increases in GHG emissions associated with construction of the proposed project are summarized in Table 5.

<b>Table 5</b>	
<b>Unmitigated Proposed Project Construction GHG Emissions</b>	
	<b>GHG Emissions (MTCO<sub>2e</sub>)</b>
<b>Total Construction GHG Emissions</b>	<b>5,212.45</b>
<i>Source: CalEEMod, January 2015 (see Appendix A).</i>	

Construction GHG emissions are a one-time release and are typically considered separate from operational emissions, as global climate change is inherently a cumulative effect that occurs over a long period of time and is quantified on a yearly basis. However, the proposed project's construction GHG emissions have been amortized over the total estimated duration of construction, which is anticipated to occur over a span of a total of approximately seven years, and included in the annual operational GHG emissions for disclosure purposes. Assuming that construction-related GHG emissions would continue to occur each year after construction is complete would represent a conservative estimation of annual GHG emissions.

Long-Term Operational GHG Emissions

The long-term operational GHG emissions estimate for the proposed project incorporates the project's potential area source and vehicle emissions, emissions associated with utility and water usage, and the generation of wastewater and solid waste. In addition, as stated above, the one-time release of construction GHG emissions has been amortized and included in the annual operational GHG emissions estimate in order to provide a conservative analysis. Furthermore, the project's use of only low VOC paints, anticipated trip rate, inherent site or project design features (i.e., pedestrian network improvements and proximity to nearest bus stop), and compliance with applicable regulations (i.e., California Building Energy Efficiency Standards) have been included in the project modeling.

Estimated GHG emissions associated with the proposed project at operational year 2020 are summarized in Table 6.

<b>Table 6</b>	
<b>Project (2020) GHG Emissions<sup>1</sup></b>	
<b>Emission Source</b>	<b>Annual GHG Emissions (MTCO<sub>2e</sub>/yr)</b>
<b>Construction Emissions<sup>2</sup></b>	<b>744.64</b>
<b>Operational Emissions</b>	<b>10,152.83</b>
Area	0.06
Energy	2,102.80
Mobile	7,264.20
Solid Waste	662.15
Water	123.62
<b>TOTAL ANNUAL GHG EMISSIONS</b>	<b>10,897.47</b>
<sup>1</sup> Includes use of only low VOC paints, pedestrian network improvements, proximity to nearest bus stop, and compliance with the California Building Energy Efficiency Standards.	
<sup>2</sup> Amortized total construction emissions (5,212.45 MTCO <sub>2e</sub> ) over an estimated seven-year construction period for the project (5,212.45 MTCO <sub>2e</sub> / 7 years = 744.64 MTCO <sub>2e</sub> /yr).	
<i>Source: CalEEMod, January 2015 (see Appendix A).</i>	

The threshold of significance utilized by the City requires a minimum GHG emission reduction of 21.7 percent from what the project would have emitted under a BAU scenario, where BAU levels are based on 2010 emissions. Thus, the project's BAU emission levels were evaluated in order to determine the net change in the proposed

project's GHG emissions over time. For the project BAU modeling, the same land use trip rates, and features of the project were applied, with the exception of those features that would not necessarily be inherent under a BAU scenario (e.g., pedestrian access improvements), for the year 2020, but with vehicle emissions, Title 24, and regulatory assumptions for the year 2010. The BAU GHG emissions were estimated as presented in Table 7 below.

Emission Source	Annual GHG Emissions (MTCO <sub>2e</sub> /yr)
<b>Construction Emissions<sup>1</sup></b>	<b>744.64</b>
<b>Operational Emissions</b>	<b>14,002.46</b>
Area	0.06
Energy	2,763.99
Mobile	10,434.35
Solid Waste	662.15
Water	141.90
<b>TOTAL ANNUAL GHG EMISSIONS</b>	<b>14,747.10</b>
<sup>1</sup> Construction emission would be similar to the proposed project.	
<i>Source: CalEEMod, January 2015 (see Appendix A).</i>	

Consequently, the proposed project would result in approximately a 26.10 percent reduction in annual GHG emissions from the BAU level by 2020, as presented in Table 8 ( $[14,747.10 \text{ MTCO}_2e - 10,897.47 \text{ MTCO}_2e] / 14,747.10 \text{ MTCO}_2e \times 100\% = 26.10\%$ ). The reduction in GHG emissions would be attributable to the proposed project's inherent site or design features, the advancement of vehicle and equipment efficiency, as well as more stringent standards and regulations as time progresses. It should be noted that although a reduction related to such attributes would occur for every development project, CalEEMod takes into consideration how much of each attribute is applied for each specific project based on the size of the project and associated land uses. As shown in the table, the proposed project would meet the minimum GHG emission reduction requirement utilized by the City of 21.7 percent by 2020 compared to BAU levels.

	Annual GHG Emissions (MTCO <sub>2e</sub> /yr)
Total BAU	14,747.10
Total Proposed Project Year 2020	10,897.47
Total Reduction from BAU by 2020	3,849.63
<b>PERCENT REDUCTION<sup>1</sup></b>	<b>26.10%</b>
<sup>1</sup> Percent reduction of project GHG emissions from BAU levels by 2020 (see calculation in text above).	

Because the project would meet the City's 21.7 percent minimum reduction threshold, the project would not be expected to hinder the State's ability to reach the GHG reduction target or conflict with an applicable plan, policy, or regulation related to GHG reduction. Therefore, impacts related to GHG emissions and global climate change would be considered *less than significant*.

## **APPENDIX A**

### **CALEEMOD RESULTS**

**Parcel 49 - AQ (Unmitigated)**  
**Placer-Sacramento County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	116.50	1000sqft	2.67	116,500.00	0
Place of Worship	130.00	1000sqft	2.98	130,000.00	0
High Turnover (Sit Down Restaurant)	11.20	1000sqft	0.26	11,200.00	0
Hotel	125.00	Room	4.17	181,500.00	0
Racquet Club	64.00	1000sqft	1.47	64,000.00	0
Regional Shopping Center	37.80	1000sqft	0.87	37,800.00	0
Parking Lot	2,817.00	Space	25.35	1,126,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2022
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 -

Land Use - utilized a "Racquet Club" use for the Topgolf use, but modified defaults with project-specific data where available

Construction Phase - based on information provided by the applicant

Grading - based on information provided by applicant

Architectural Coating - project required to comply with PCAPCD rules and regulations

Mobile Land Use Mitigation -

Area Mitigation - project required to comply with PCAPCD rules and regulations

Energy Mitigation - project would comply for 2013 Title 24 standards

Vehicle Trips - based on info from traffic consultant

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100

tblConstructionPhase	NumDays	55.00	395.00
tblConstructionPhase	NumDays	55.00	135.00
tblConstructionPhase	NumDays	55.00	200.00
tblConstructionPhase	NumDays	740.00	395.00
tblConstructionPhase	NumDays	740.00	135.00
tblConstructionPhase	NumDays	740.00	200.00
tblConstructionPhase	NumDays	75.00	10.00
tblConstructionPhase	NumDays	75.00	40.00
tblConstructionPhase	NumDays	75.00	10.00
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	55.00	10.00
tblConstructionPhase	NumDays	55.00	15.00
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	PhaseEndDate	7/21/2023	1/28/2022
tblConstructionPhase	PhaseEndDate	1/6/2017	7/15/2016
tblConstructionPhase	PhaseEndDate	1/18/2019	4/27/2018
tblConstructionPhase	PhaseEndDate	5/11/2018	6/12/2020
tblConstructionPhase	PhaseEndDate	7/29/2016	6/16/2017
tblConstructionPhase	PhaseStartDate	1/15/2022	7/27/2020
tblConstructionPhase	PhaseStartDate	7/2/2016	1/11/2016
tblConstructionPhase	PhaseStartDate	4/14/2018	7/24/2017
tblConstructionPhase	PhaseStartDate	7/11/2020	7/13/2020
tblConstructionPhase	PhaseStartDate	12/26/2015	12/28/2015
tblConstructionPhase	PhaseStartDate	7/8/2017	7/10/2017
tblConstructionPhase	PhaseStartDate	4/28/2018	6/1/2020
tblConstructionPhase	PhaseStartDate	10/17/2015	10/19/2015
tblConstructionPhase	PhaseStartDate	7/16/2016	6/5/2017
tblConstructionPhase	PhaseStartDate	6/13/2020	6/15/2020

tblConstructionPhase	PhaseStartDate	12/12/2015	12/14/2015
tblConstructionPhase	PhaseStartDate	6/17/2017	6/19/2017
tblGrading	AcresOfGrading	25.00	10.00
tblGrading	AcresOfGrading	100.00	40.00
tblGrading	AcresOfGrading	25.00	10.00
tblProjectCharacteristics	OperationalYear	2014	2022
tblVehicleTrips	ST_TR	2.37	2.45
tblVehicleTrips	ST_TR	158.37	113.45
tblVehicleTrips	ST_TR	8.19	28.98
tblVehicleTrips	ST_TR	10.37	13.39
tblVehicleTrips	ST_TR	20.87	42.70
tblVehicleTrips	ST_TR	49.97	36.63
tblVehicleTrips	ST_TR	0.00	0.01
tblVehicleTrips	SU_TR	0.98	1.05
tblVehicleTrips	SU_TR	131.84	101.95
tblVehicleTrips	SU_TR	5.95	26.01
tblVehicleTrips	SU_TR	36.63	49.95
tblVehicleTrips	SU_TR	26.73	44.09
tblVehicleTrips	SU_TR	25.24	16.40
tblVehicleTrips	SU_TR	0.00	0.01
tblVehicleTrips	WD_TR	11.01	9.48
tblVehicleTrips	WD_TR	127.15	111.07
tblVehicleTrips	WD_TR	8.17	33.55
tblVehicleTrips	WD_TR	9.11	8.00
tblVehicleTrips	WD_TR	32.93	37.25
tblVehicleTrips	WD_TR	42.94	37.94
tblVehicleTrips	WD_TR	0.00	0.09

## 2.0 Emissions Summary

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### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	9.6555	79.1173	80.6911	0.1626	18.2141	3.8033	21.3034	9.9699	3.4990	12.8120						
2016	49.2072	58.2762	83.0008	0.1795	8.5725	2.6310	11.2035	2.3113	2.4743	4.7856						
2017	35.3597	69.6483	76.4077	0.1794	8.5726	3.3182	10.9263	3.4683	3.0527	6.5211						
2018	34.3406	46.9682	69.9459	0.1791	8.5724	2.0150	10.5873	2.3113	1.8960	4.2073						
2020	19.9918	49.4274	64.0365	0.1788	8.5725	2.2630	10.1094	3.4683	2.0819	5.5502						
2021	19.4417	33.1977	61.2500	0.1787	8.5726	1.3352	9.9078	2.3114	1.2555	3.5669						
2022	19.0895	29.7731	59.5667	0.1786	8.5728	1.1694	9.7422	2.3115	1.0995	3.4110						
<b>Total</b>	<b>187.0861</b>	<b>366.4082</b>	<b>494.8987</b>	<b>1.2367</b>	<b>69.6495</b>	<b>16.5349</b>	<b>83.7798</b>	<b>26.1520</b>	<b>15.3590</b>	<b>40.8541</b>						



**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	39.3719	3.0800e-003	0.3376	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003						
Energy	0.3733	3.3939	2.8509	0.0204		0.2579	0.2579		0.2579	0.2579						
Mobile	42.7458	55.1909	306.6016	1.0055	66.7227	0.9860	67.7087	17.8122	0.9104	18.7226						
<b>Total</b>	<b>82.4911</b>	<b>58.5879</b>	<b>309.7901</b>	<b>1.0259</b>	<b>66.7227</b>	<b>1.2452</b>	<b>67.9678</b>	<b>17.8122</b>	<b>1.1695</b>	<b>18.9817</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	34.5137	3.0800e-003	0.3376	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003						
Energy	0.2866	2.6058	2.1888	0.0156		0.1980	0.1980		0.1980	0.1980						
Mobile	42.0920	52.0008	289.4448	0.9322	61.6503	0.9221	62.5724	16.4581	0.8514	17.3095						
<b>Total</b>	<b>76.8923</b>	<b>54.6096</b>	<b>291.9712</b>	<b>0.9478</b>	<b>61.6503</b>	<b>1.1213</b>	<b>62.7717</b>	<b>16.4581</b>	<b>1.0507</b>	<b>17.5087</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	6.79	6.79	5.75	7.61	7.60	9.94	7.65	7.60	10.16	7.76	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/5/2015	10/16/2015	5	10	
2	Grading - Phase 1	Grading	10/19/2015	12/11/2015	5	40	
3	Paving - Phase 1	Paving	12/14/2015	12/25/2015	5	10	
4	Building Construction - Phase 1	Building Construction	12/28/2015	7/1/2016	5	135	
5	Architectural Coating - Phase 1	Architectural Coating	1/11/2016	7/15/2016	5	135	
6	Grading - Phase 2	Grading	6/5/2017	6/16/2017	5	10	
7	Paving - Phase 2	Paving	6/19/2017	7/7/2017	5	15	
8	Building Construction - Phase 2	Building Construction	7/10/2017	4/13/2018	5	200	
9	Arch Coating - Phase 2	Architectural Coating	7/24/2017	4/27/2018	5	200	
10	Grading - Phase 3	Grading	6/1/2020	6/12/2020	5	10	
11	Paving - Phase 3	Paving	6/15/2020	7/10/2020	5	20	
12	Building Construction - Phase 3	Building Construction	7/13/2020	1/14/2022	5	395	
13	Arch Coating - Phase 3	Architectural Coating	7/27/2020	1/28/2022	5	395	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 862,206; Non-Residential Outdoor: 287,402 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading - Phase 1	Excavators	2	8.00	162	0.38
Grading - Phase 1	Graders	1	8.00	174	0.41
Grading - Phase 1	Rubber Tired Dozers	1	8.00	255	0.40
Grading - Phase 1	Scrapers	2	8.00	361	0.48
Grading - Phase 1	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving - Phase 1	Pavers	2	8.00	125	0.42
Paving - Phase 1	Paving Equipment	2	8.00	130	0.36
Paving - Phase 1	Rollers	2	8.00	80	0.38
Building Construction - Phase 1	Cranes	1	7.00	226	0.29
Building Construction - Phase 1	Forklifts	3	8.00	89	0.20
Building Construction - Phase 1	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 1	Welders	1	8.00	46	0.45
Architectural Coating - Phase 1	Air Compressors	1	6.00	78	0.48
Grading - Phase 2	Excavators	2	8.00	162	0.38
Grading - Phase 2	Graders	1	8.00	174	0.41
Grading - Phase 2	Rubber Tired Dozers	1	8.00	255	0.40
Grading - Phase 2	Scrapers	2	8.00	361	0.48
Grading - Phase 2	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving - Phase 2	Pavers	2	8.00	125	0.42
Paving - Phase 2	Paving Equipment	2	8.00	130	0.36
Paving - Phase 2	Rollers	2	8.00	80	0.38
Building Construction - Phase 2	Cranes	1	7.00	226	0.29
Building Construction - Phase 2	Forklifts	3	8.00	89	0.20

Building Construction - Phase 2	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 2	Welders	1	8.00	46	0.45
Arch Coating - Phase 2	Air Compressors	1	6.00	78	0.48
Grading - Phase 3	Excavators	2	8.00	162	0.38
Grading - Phase 3	Graders	1	8.00	174	0.41
Grading - Phase 3	Rubber Tired Dozers	1	8.00	255	0.40
Grading - Phase 3	Scrapers	2	8.00	361	0.48
Grading - Phase 3	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving - Phase 3	Pavers	2	8.00	125	0.42
Paving - Phase 3	Paving Equipment	2	8.00	130	0.36
Paving - Phase 3	Rollers	2	8.00	80	0.38
Building Construction - Phase 3	Cranes	1	7.00	226	0.29
Building Construction - Phase 3	Forklifts	3	8.00	89	0.20
Building Construction - Phase 3	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 3	Welders	1	8.00	46	0.45
Arch Coating - Phase 3	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 1	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 1	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 1	9	685.00	273.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase 1	1	137.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 2	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 2	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 2	9	685.00	273.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Arch Coating - Phase 2	1	137.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 3	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 3	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 3	9	685.00	273.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Arch Coating - Phase 3	1	137.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

**3.2 Site Preparation - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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						
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412						
<b>Total</b>	<b>5.2609</b>	<b>56.8897</b>	<b>42.6318</b>	<b>0.0391</b>	<b>18.0663</b>	<b>3.0883</b>	<b>21.1545</b>	<b>9.9307</b>	<b>2.8412</b>	<b>12.7719</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0728	0.0636	0.8549	1.8500e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401						
<b>Total</b>	<b>0.0728</b>	<b>0.0636</b>	<b>0.8549</b>	<b>1.8500e-003</b>	<b>0.1479</b>	<b>9.6000e-004</b>	<b>0.1488</b>	<b>0.0392</b>	<b>8.8000e-004</b>	<b>0.0401</b>						

### 3.2 Site Preparation - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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						
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412						
<b>Total</b>	<b>5.2609</b>	<b>56.8897</b>	<b>42.6318</b>	<b>0.0391</b>	<b>18.0663</b>	<b>3.0883</b>	<b>21.1545</b>	<b>9.9307</b>	<b>2.8412</b>	<b>12.7719</b>						

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0728	0.0636	0.8549	1.8500e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401						
<b>Total</b>	<b>0.0728</b>	<b>0.0636</b>	<b>0.8549</b>	<b>1.8500e-003</b>	<b>0.1479</b>	<b>9.6000e-004</b>	<b>0.1488</b>	<b>0.0392</b>	<b>8.8000e-004</b>	<b>0.0401</b>						

**3.3 Grading - Phase 1 - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247						
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980						
<b>Total</b>	<b>6.7751</b>	<b>79.0467</b>	<b>50.8400</b>	<b>0.0618</b>	<b>7.0826</b>	<b>3.8022</b>	<b>10.8848</b>	<b>3.4247</b>	<b>3.4980</b>	<b>6.9227</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0808	0.0706	0.9499	2.0600e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446						
<b>Total</b>	<b>0.0808</b>	<b>0.0706</b>	<b>0.9499</b>	<b>2.0600e-003</b>	<b>0.1643</b>	<b>1.0700e-003</b>	<b>0.1654</b>	<b>0.0436</b>	<b>9.8000e-004</b>	<b>0.0446</b>						

### 3.3 Grading - Phase 1 - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247							
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980							
<b>Total</b>	<b>6.7751</b>	<b>79.0467</b>	<b>50.8400</b>	<b>0.0618</b>	<b>7.0826</b>	<b>3.8022</b>	<b>10.8848</b>	<b>3.4247</b>	<b>3.4980</b>	<b>6.9227</b>							

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	0.0808	0.0706	0.9499	2.0600e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446							
<b>Total</b>	<b>0.0808</b>	<b>0.0706</b>	<b>0.9499</b>	<b>2.0600e-003</b>	<b>0.1643</b>	<b>1.0700e-003</b>	<b>0.1654</b>	<b>0.0436</b>	<b>9.8000e-004</b>	<b>0.0446</b>							

**3.4 Paving - Phase 1 - 2015****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016						
Paving	6.6417					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>8.9589</b>	<b>25.1758</b>	<b>14.9781</b>	<b>0.0223</b>		<b>1.4148</b>	<b>1.4148</b>		<b>1.3016</b>	<b>1.3016</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0606	0.0530	0.7124	1.5500e-003	0.1232	8.0000e-004	0.1240	0.0327	7.3000e-004	0.0334						
<b>Total</b>	<b>0.0606</b>	<b>0.0530</b>	<b>0.7124</b>	<b>1.5500e-003</b>	<b>0.1232</b>	<b>8.0000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.3000e-004</b>	<b>0.0334</b>						

**3.4 Paving - Phase 1 - 2015**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016						
Paving	6.6417					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>8.9589</b>	<b>25.1758</b>	<b>14.9781</b>	<b>0.0223</b>		<b>1.4148</b>	<b>1.4148</b>		<b>1.3016</b>	<b>1.3016</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0606	0.0530	0.7124	1.5500e-003	0.1232	8.0000e-004	0.1240	0.0327	7.3000e-004	0.0334						
<b>Total</b>	<b>0.0606</b>	<b>0.0530</b>	<b>0.7124</b>	<b>1.5500e-003</b>	<b>0.1232</b>	<b>8.0000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.3000e-004</b>	<b>0.0334</b>						

**3.5 Building Construction - Phase 1 - 2015****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904						
<b>Total</b>	<b>3.6591</b>	<b>30.0299</b>	<b>18.7446</b>	<b>0.0268</b>		<b>2.1167</b>	<b>2.1167</b>		<b>1.9904</b>	<b>1.9904</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	3.2277	28.4888	29.4143	0.0652	1.8197	0.5054	2.3251	0.5201	0.4646	0.9847						
Worker	2.7688	2.4188	32.5322	0.0706	5.6271	0.0366	5.6637	1.4926	0.0335	1.5260						
<b>Total</b>	<b>5.9965</b>	<b>30.9077</b>	<b>61.9465</b>	<b>0.1358</b>	<b>7.4468</b>	<b>0.5420</b>	<b>7.9888</b>	<b>2.0127</b>	<b>0.4981</b>	<b>2.5108</b>						

### 3.5 Building Construction - Phase 1 - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904						
<b>Total</b>	<b>3.6591</b>	<b>30.0299</b>	<b>18.7446</b>	<b>0.0268</b>		<b>2.1167</b>	<b>2.1167</b>		<b>1.9904</b>	<b>1.9904</b>						

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	3.2277	28.4888	29.4143	0.0652	1.8197	0.5054	2.3251	0.5201	0.4646	0.9847						
Worker	2.7688	2.4188	32.5322	0.0706	5.6271	0.0366	5.6637	1.4926	0.0335	1.5260						
<b>Total</b>	<b>5.9965</b>	<b>30.9077</b>	<b>61.9465</b>	<b>0.1358</b>	<b>7.4468</b>	<b>0.5420</b>	<b>7.9888</b>	<b>2.0127</b>	<b>0.4981</b>	<b>2.5108</b>						

### 3.5 Building Construction - Phase 1 - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485							
<b>Total</b>	<b>3.4062</b>	<b>28.5063</b>	<b>18.5066</b>	<b>0.0268</b>		<b>1.9674</b>	<b>1.9674</b>		<b>1.8485</b>	<b>1.8485</b>							

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	2.9773	24.8054	27.6579	0.0651	1.8199	0.4247	2.2446	0.5202	0.3904	0.9107							
Worker	2.4878	2.1603	29.1270	0.0705	5.6271	0.0352	5.6624	1.4926	0.0323	1.5249							
<b>Total</b>	<b>5.4651</b>	<b>26.9656</b>	<b>56.7849</b>	<b>0.1356</b>	<b>7.4470</b>	<b>0.4600</b>	<b>7.9070</b>	<b>2.0128</b>	<b>0.4228</b>	<b>2.4356</b>							

### 3.5 Building Construction - Phase 1 - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485						
<b>Total</b>	<b>3.4062</b>	<b>28.5063</b>	<b>18.5066</b>	<b>0.0268</b>		<b>1.9674</b>	<b>1.9674</b>		<b>1.8485</b>	<b>1.8485</b>						

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	2.9773	24.8054	27.6579	0.0651	1.8199	0.4247	2.2446	0.5202	0.3904	0.9107						
Worker	2.4878	2.1603	29.1270	0.0705	5.6271	0.0352	5.6624	1.4926	0.0323	1.5249						
<b>Total</b>	<b>5.4651</b>	<b>26.9656</b>	<b>56.7849</b>	<b>0.1356</b>	<b>7.4470</b>	<b>0.4600</b>	<b>7.9070</b>	<b>2.0128</b>	<b>0.4228</b>	<b>2.4356</b>						

### 3.6 Architectural Coating - Phase 1 - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	39.4699					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966						
<b>Total</b>	<b>39.8383</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>						

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.4976	0.4321	5.8254	0.0141	1.1254	7.0500e-003	1.1325	0.2985	6.4700e-003	0.3050						
<b>Total</b>	<b>0.4976</b>	<b>0.4321</b>	<b>5.8254</b>	<b>0.0141</b>	<b>1.1254</b>	<b>7.0500e-003</b>	<b>1.1325</b>	<b>0.2985</b>	<b>6.4700e-003</b>	<b>0.3050</b>						

### 3.6 Architectural Coating - Phase 1 - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	39.4699					0.0000	0.0000		0.0000	0.0000							
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966							
<b>Total</b>	<b>39.8383</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>							

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	0.4976	0.4321	5.8254	0.0141	1.1254	7.0500e-003	1.1325	0.2985	6.4700e-003	0.3050							
<b>Total</b>	<b>0.4976</b>	<b>0.4321</b>	<b>5.8254</b>	<b>0.0141</b>	<b>1.1254</b>	<b>7.0500e-003</b>	<b>1.1325</b>	<b>0.2985</b>	<b>6.4700e-003</b>	<b>0.3050</b>							

**3.7 Grading - Phase 2 - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247						
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518						
<b>Total</b>	<b>6.0991</b>	<b>69.5920</b>	<b>46.8050</b>	<b>0.0617</b>	<b>7.0826</b>	<b>3.3172</b>	<b>10.3998</b>	<b>3.4247</b>	<b>3.0518</b>	<b>6.4766</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0648	0.0563	0.7589	2.0600e-003	0.1643	1.0000e-003	0.1653	0.0436	9.3000e-004	0.0445						
<b>Total</b>	<b>0.0648</b>	<b>0.0563</b>	<b>0.7589</b>	<b>2.0600e-003</b>	<b>0.1643</b>	<b>1.0000e-003</b>	<b>0.1653</b>	<b>0.0436</b>	<b>9.3000e-004</b>	<b>0.0445</b>						

**3.7 Grading - Phase 2 - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247						
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518						
<b>Total</b>	<b>6.0991</b>	<b>69.5920</b>	<b>46.8050</b>	<b>0.0617</b>	<b>7.0826</b>	<b>3.3172</b>	<b>10.3998</b>	<b>3.4247</b>	<b>3.0518</b>	<b>6.4766</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0648	0.0563	0.7589	2.0600e-003	0.1643	1.0000e-003	0.1653	0.0436	9.3000e-004	0.0445						
<b>Total</b>	<b>0.0648</b>	<b>0.0563</b>	<b>0.7589</b>	<b>2.0600e-003</b>	<b>0.1643</b>	<b>1.0000e-003</b>	<b>0.1653</b>	<b>0.0436</b>	<b>9.3000e-004</b>	<b>0.0445</b>						

**3.8 Paving - Phase 2 - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473						
Paving	4.4278					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>6.3352</b>	<b>20.2964</b>	<b>14.7270</b>	<b>0.0223</b>		<b>1.1384</b>	<b>1.1384</b>		<b>1.0473</b>	<b>1.0473</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0486	0.0422	0.5691	1.5400e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334						
<b>Total</b>	<b>0.0486</b>	<b>0.0422</b>	<b>0.5691</b>	<b>1.5400e-003</b>	<b>0.1232</b>	<b>7.5000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>6.9000e-004</b>	<b>0.0334</b>						

**3.8 Paving - Phase 2 - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473						
Paving	4.4278					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>6.3352</b>	<b>20.2964</b>	<b>14.7270</b>	<b>0.0223</b>		<b>1.1384</b>	<b>1.1384</b>		<b>1.0473</b>	<b>1.0473</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0486	0.0422	0.5691	1.5400e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334						
<b>Total</b>	<b>0.0486</b>	<b>0.0422</b>	<b>0.5691</b>	<b>1.5400e-003</b>	<b>0.1232</b>	<b>7.5000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>6.9000e-004</b>	<b>0.0334</b>						

### 3.9 Building Construction - Phase 2 - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730						
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>		<b>1.7812</b>	<b>1.7812</b>		<b>1.6730</b>	<b>1.6730</b>						

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	2.6200	21.8654	25.2219	0.0649	1.8201	0.3578	2.1779	0.5203	0.3290	0.8493						
Worker	2.2191	1.9281	25.9905	0.0705	5.6271	0.0344	5.6615	1.4926	0.0317	1.5243						
<b>Total</b>	<b>4.8391</b>	<b>23.7935</b>	<b>51.2124</b>	<b>0.1355</b>	<b>7.4472</b>	<b>0.3922</b>	<b>7.8394</b>	<b>2.0129</b>	<b>0.3607</b>	<b>2.3736</b>						

### 3.9 Building Construction - Phase 2 - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730							
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>		<b>1.7812</b>	<b>1.7812</b>		<b>1.6730</b>	<b>1.6730</b>							

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	2.6200	21.8654	25.2219	0.0649	1.8201	0.3578	2.1779	0.5203	0.3290	0.8493							
Worker	2.2191	1.9281	25.9905	0.0705	5.6271	0.0344	5.6615	1.4926	0.0317	1.5243							
<b>Total</b>	<b>4.8391</b>	<b>23.7935</b>	<b>51.2124</b>	<b>0.1355</b>	<b>7.4472</b>	<b>0.3922</b>	<b>7.8394</b>	<b>2.0129</b>	<b>0.3607</b>	<b>2.3736</b>							

### 3.9 Building Construction - Phase 2 - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048						
<b>Total</b>	<b>2.6687</b>	<b>23.2608</b>	<b>17.5327</b>	<b>0.0268</b>		<b>1.4943</b>	<b>1.4943</b>		<b>1.4048</b>	<b>1.4048</b>						

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	2.3323	19.6153	22.4355	0.0648	1.8198	0.3292	2.1490	0.5202	0.3028	0.8230						
Worker	1.9991	1.7386	23.4363	0.0705	5.6271	0.0341	5.6612	1.4926	0.0316	1.5241						
<b>Total</b>	<b>4.3313</b>	<b>21.3539</b>	<b>45.8718</b>	<b>0.1353</b>	<b>7.4469</b>	<b>0.3633</b>	<b>7.8103</b>	<b>2.0128</b>	<b>0.3344</b>	<b>2.3471</b>						

### 3.9 Building Construction - Phase 2 - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048						
<b>Total</b>	<b>2.6687</b>	<b>23.2608</b>	<b>17.5327</b>	<b>0.0268</b>		<b>1.4943</b>	<b>1.4943</b>		<b>1.4048</b>	<b>1.4048</b>						

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	2.3323	19.6153	22.4355	0.0648	1.8198	0.3292	2.1490	0.5202	0.3028	0.8230						
Worker	1.9991	1.7386	23.4363	0.0705	5.6271	0.0341	5.6612	1.4926	0.0316	1.5241						
<b>Total</b>	<b>4.3313</b>	<b>21.3539</b>	<b>45.8718</b>	<b>0.1353</b>	<b>7.4469</b>	<b>0.3633</b>	<b>7.8103</b>	<b>2.0128</b>	<b>0.3344</b>	<b>2.3471</b>						

**3.10 Arch Coating - Phase 2 - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	26.6422					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733						
<b>Total</b>	<b>26.9745</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.4438	0.3856	5.1981	0.0141	1.1254	6.8800e-003	1.1323	0.2985	6.3500e-003	0.3049						
<b>Total</b>	<b>0.4438</b>	<b>0.3856</b>	<b>5.1981</b>	<b>0.0141</b>	<b>1.1254</b>	<b>6.8800e-003</b>	<b>1.1323</b>	<b>0.2985</b>	<b>6.3500e-003</b>	<b>0.3049</b>						

**3.10 Arch Coating - Phase 2 - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	26.6422					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733						
<b>Total</b>	<b>26.9745</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.4438	0.3856	5.1981	0.0141	1.1254	6.8800e-003	1.1323	0.2985	6.3500e-003	0.3049						
<b>Total</b>	<b>0.4438</b>	<b>0.3856</b>	<b>5.1981</b>	<b>0.0141</b>	<b>1.1254</b>	<b>6.8800e-003</b>	<b>1.1323</b>	<b>0.2985</b>	<b>6.3500e-003</b>	<b>0.3049</b>						

**3.10 Arch Coating - Phase 2 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	26.6422					0.0000	0.0000		0.0000	0.0000							
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506							
<b>Total</b>	<b>26.9408</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>							

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	0.3998	0.3477	4.6873	0.0141	1.1254	6.8200e-003	1.1322	0.2985	6.3100e-003	0.3048							
<b>Total</b>	<b>0.3998</b>	<b>0.3477</b>	<b>4.6873</b>	<b>0.0141</b>	<b>1.1254</b>	<b>6.8200e-003</b>	<b>1.1322</b>	<b>0.2985</b>	<b>6.3100e-003</b>	<b>0.3048</b>							

**3.10 Arch Coating - Phase 2 - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	26.6422					0.0000	0.0000		0.0000	0.0000							
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506							
<b>Total</b>	<b>26.9408</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>							

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	0.3998	0.3477	4.6873	0.0141	1.1254	6.8200e-003	1.1322	0.2985	6.3100e-003	0.3048							
<b>Total</b>	<b>0.3998</b>	<b>0.3477</b>	<b>4.6873</b>	<b>0.0141</b>	<b>1.1254</b>	<b>6.8200e-003</b>	<b>1.1322</b>	<b>0.2985</b>	<b>6.3100e-003</b>	<b>0.3048</b>							

**3.11 Grading - Phase 3 - 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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247						
Off-Road	4.5501	49.3839	38.4257	0.0617		2.2619	2.2619		2.0810	2.0810						
<b>Total</b>	<b>4.5501</b>	<b>49.3839</b>	<b>38.4257</b>	<b>0.0617</b>	<b>7.0826</b>	<b>2.2619</b>	<b>9.3445</b>	<b>3.4247</b>	<b>2.0810</b>	<b>5.5057</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0506	0.0434	0.5935	2.0500e-003	0.1643	1.0100e-003	0.1653	0.0436	9.4000e-004	0.0445						
<b>Total</b>	<b>0.0506</b>	<b>0.0434</b>	<b>0.5935</b>	<b>2.0500e-003</b>	<b>0.1643</b>	<b>1.0100e-003</b>	<b>0.1653</b>	<b>0.0436</b>	<b>9.4000e-004</b>	<b>0.0445</b>						

**3.11 Grading - Phase 3 - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247						
Off-Road	4.5501	49.3839	38.4257	0.0617		2.2619	2.2619		2.0810	2.0810						
<b>Total</b>	<b>4.5501</b>	<b>49.3839</b>	<b>38.4257</b>	<b>0.0617</b>	<b>7.0826</b>	<b>2.2619</b>	<b>9.3445</b>	<b>3.4247</b>	<b>2.0810</b>	<b>5.5057</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0506	0.0434	0.5935	2.0500e-003	0.1643	1.0100e-003	0.1653	0.0436	9.4000e-004	0.0445						
<b>Total</b>	<b>0.0506</b>	<b>0.0434</b>	<b>0.5935</b>	<b>2.0500e-003</b>	<b>0.1643</b>	<b>1.0100e-003</b>	<b>0.1653</b>	<b>0.0436</b>	<b>9.4000e-004</b>	<b>0.0445</b>						

**3.12 Paving - Phase 3 - 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					
Off-Road	1.3301	13.7845	14.3523	0.0223		0.7390	0.7390		0.6799	0.6799						
Paving	3.3209					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>4.6509</b>	<b>13.7845</b>	<b>14.3523</b>	<b>0.0223</b>		<b>0.7390</b>	<b>0.7390</b>		<b>0.6799</b>	<b>0.6799</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0380	0.0326	0.4451	1.5400e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334						
<b>Total</b>	<b>0.0380</b>	<b>0.0326</b>	<b>0.4451</b>	<b>1.5400e-003</b>	<b>0.1232</b>	<b>7.6000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.0000e-004</b>	<b>0.0334</b>						

**3.12 Paving - Phase 3 - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3301	13.7845	14.3523	0.0223		0.7390	0.7390		0.6799	0.6799						
Paving	3.3209					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>4.6509</b>	<b>13.7845</b>	<b>14.3523</b>	<b>0.0223</b>		<b>0.7390</b>	<b>0.7390</b>		<b>0.6799</b>	<b>0.6799</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0380	0.0326	0.4451	1.5400e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334						
<b>Total</b>	<b>0.0380</b>	<b>0.0326</b>	<b>0.4451</b>	<b>1.5400e-003</b>	<b>0.1232</b>	<b>7.6000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.0000e-004</b>	<b>0.0334</b>						

**3.13 Building Construction - Phase 3 - 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					
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465						
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	2.0693	15.2814	21.0031	0.0646	1.8200	0.2717	2.0917	0.5202	0.2499	0.7702						
Worker	1.7329	1.4878	20.3279	0.0704	5.6271	0.0346	5.6617	1.4926	0.0321	1.5246						
<b>Total</b>	<b>3.8021</b>	<b>16.7692</b>	<b>41.3310</b>	<b>0.1350</b>	<b>7.4471</b>	<b>0.3063</b>	<b>7.7533</b>	<b>2.0128</b>	<b>0.2820</b>	<b>2.2948</b>						

**3.13 Building Construction - Phase 3 - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465						
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	2.0693	15.2814	21.0031	0.0646	1.8200	0.2717	2.0917	0.5202	0.2499	0.7702						
Worker	1.7329	1.4878	20.3279	0.0704	5.6271	0.0346	5.6617	1.4926	0.0321	1.5246						
<b>Total</b>	<b>3.8021</b>	<b>16.7692</b>	<b>41.3310</b>	<b>0.1350</b>	<b>7.4471</b>	<b>0.3063</b>	<b>7.7533</b>	<b>2.0128</b>	<b>0.2820</b>	<b>2.2948</b>						

**3.13 Building Construction - Phase 3 - 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	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979							
<b>Total</b>	<b>1.8931</b>	<b>17.3403</b>	<b>16.5376</b>	<b>0.0268</b>		<b>0.9549</b>	<b>0.9549</b>		<b>0.8979</b>	<b>0.8979</b>							

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	1.8687	12.6496	19.8192	0.0645	1.8201	0.2441	2.0642	0.5203	0.2246	0.7449							
Worker	1.6427	1.4008	19.2297	0.0704	5.6271	0.0350	5.6622	1.4926	0.0325	1.5251							
<b>Total</b>	<b>3.5114</b>	<b>14.0504</b>	<b>39.0489</b>	<b>0.1348</b>	<b>7.4472</b>	<b>0.2792</b>	<b>7.7264</b>	<b>2.0129</b>	<b>0.2571</b>	<b>2.2700</b>							

### 3.13 Building Construction - Phase 3 - 2021

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979							
<b>Total</b>	<b>1.8931</b>	<b>17.3403</b>	<b>16.5376</b>	<b>0.0268</b>		<b>0.9549</b>	<b>0.9549</b>		<b>0.8979</b>	<b>0.8979</b>							

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	1.8687	12.6496	19.8192	0.0645	1.8201	0.2441	2.0642	0.5203	0.2246	0.7449							
Worker	1.6427	1.4008	19.2297	0.0704	5.6271	0.0350	5.6622	1.4926	0.0325	1.5251							
<b>Total</b>	<b>3.5114</b>	<b>14.0504</b>	<b>39.0489</b>	<b>0.1348</b>	<b>7.4472</b>	<b>0.2792</b>	<b>7.7264</b>	<b>2.0129</b>	<b>0.2571</b>	<b>2.2700</b>							

### 3.13 Building Construction - Phase 3 - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6992	15.5364	16.3276	0.0268		0.8057	0.8057		0.7581	0.7581						
<b>Total</b>	<b>1.6992</b>	<b>15.5364</b>	<b>16.3276</b>	<b>0.0268</b>		<b>0.8057</b>	<b>0.8057</b>		<b>0.7581</b>	<b>0.7581</b>						

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	1.8207	11.2363	19.4917	0.0644	1.8203	0.2393	2.0595	0.5204	0.2201	0.7405						
Worker	1.5629	1.3266	18.2782	0.0704	5.6271	0.0356	5.6627	1.4926	0.0330	1.5256						
<b>Total</b>	<b>3.3835</b>	<b>12.5629</b>	<b>37.7699</b>	<b>0.1348</b>	<b>7.4474</b>	<b>0.2748</b>	<b>7.7222</b>	<b>2.0129</b>	<b>0.2531</b>	<b>2.2660</b>						

**3.13 Building Construction - Phase 3 - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6992	15.5364	16.3276	0.0268		0.8057	0.8057		0.7581	0.7581						
<b>Total</b>	<b>1.6992</b>	<b>15.5364</b>	<b>16.3276</b>	<b>0.0268</b>		<b>0.8057</b>	<b>0.8057</b>		<b>0.7581</b>	<b>0.7581</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	1.8207	11.2363	19.4917	0.0644	1.8203	0.2393	2.0595	0.5204	0.2201	0.7405						
Worker	1.5629	1.3266	18.2782	0.0704	5.6271	0.0356	5.6627	1.4926	0.0330	1.5256						
<b>Total</b>	<b>3.3835</b>	<b>12.5629</b>	<b>37.7699</b>	<b>0.1348</b>	<b>7.4474</b>	<b>0.2748</b>	<b>7.7222</b>	<b>2.0129</b>	<b>0.2531</b>	<b>2.2660</b>						

**3.14 Arch Coating - Phase 3 - 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						
Archit. Coating	13.4897					0.0000	0.0000		0.0000	0.0000							
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109							
<b>Total</b>	<b>13.7319</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>							

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	0.3466	0.2976	4.0656	0.0141	1.1254	6.9100e-003	1.1323	0.2985	6.4100e-003	0.3049							
<b>Total</b>	<b>0.3466</b>	<b>0.2976</b>	<b>4.0656</b>	<b>0.0141</b>	<b>1.1254</b>	<b>6.9100e-003</b>	<b>1.1323</b>	<b>0.2985</b>	<b>6.4100e-003</b>	<b>0.3049</b>							

**3.14 Arch Coating - Phase 3 - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	13.4897					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109						
<b>Total</b>	<b>13.7319</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.3466	0.2976	4.0656	0.0141	1.1254	6.9100e-003	1.1323	0.2985	6.4100e-003	0.3049						
<b>Total</b>	<b>0.3466</b>	<b>0.2976</b>	<b>4.0656</b>	<b>0.0141</b>	<b>1.1254</b>	<b>6.9100e-003</b>	<b>1.1323</b>	<b>0.2985</b>	<b>6.4100e-003</b>	<b>0.3049</b>						

**3.14 Arch Coating - Phase 3 - 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					
Archit. Coating	13.4897					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941						
<b>Total</b>	<b>13.7086</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.3285	0.2802	3.8459	0.0141	1.1254	7.0100e-003	1.1324	0.2985	6.5000e-003	0.3050						
<b>Total</b>	<b>0.3285</b>	<b>0.2802</b>	<b>3.8459</b>	<b>0.0141</b>	<b>1.1254</b>	<b>7.0100e-003</b>	<b>1.1324</b>	<b>0.2985</b>	<b>6.5000e-003</b>	<b>0.3050</b>						

**3.14 Arch Coating - Phase 3 - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.4897					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941						
<b>Total</b>	<b>13.7086</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.3285	0.2802	3.8459	0.0141	1.1254	7.0100e-003	1.1324	0.2985	6.5000e-003	0.3050						
<b>Total</b>	<b>0.3285</b>	<b>0.2802</b>	<b>3.8459</b>	<b>0.0141</b>	<b>1.1254</b>	<b>7.0100e-003</b>	<b>1.1324</b>	<b>0.2985</b>	<b>6.5000e-003</b>	<b>0.3050</b>						

**3.14 Arch Coating - Phase 3 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.4897					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						
<b>Total</b>	<b>13.6942</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>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.3126	0.2653	3.6557	0.0141	1.1254	7.1100e-003	1.1325	0.2985	6.6000e-003	0.3051						
<b>Total</b>	<b>0.3126</b>	<b>0.2653</b>	<b>3.6557</b>	<b>0.0141</b>	<b>1.1254</b>	<b>7.1100e-003</b>	<b>1.1325</b>	<b>0.2985</b>	<b>6.6000e-003</b>	<b>0.3051</b>						

### 3.14 Arch Coating - Phase 3 - 2022

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	13.4897					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							
<b>Total</b>	<b>13.6942</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>							

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	0.3126	0.2653	3.6557	0.0141	1.1254	7.1100e-003	1.1325	0.2985	6.6000e-003	0.3051							
<b>Total</b>	<b>0.3126</b>	<b>0.2653</b>	<b>3.6557</b>	<b>0.0141</b>	<b>1.1254</b>	<b>7.1100e-003</b>	<b>1.1325</b>	<b>0.2985</b>	<b>6.6000e-003</b>	<b>0.3051</b>							

### 4.0 Operational Detail - Mobile

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### 4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	42.0920	52.0008	289.4448	0.9322	61.6503	0.9221	62.5724	16.4581	0.8514	17.3095						
Unmitigated	42.7458	55.1909	306.6016	1.0055	66.7227	0.9860	67.7087	17.8122	0.9104	18.7226						

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	1,104.42	285.43	122.33	2,024,411	1,870,513
High Turnover (Sit Down Restaurant)	1,243.98	1,270.64	1141.84	1,430,838	1,322,064
Hotel	4,193.75	3,622.50	3251.25	7,556,975	6,982,485
Place of Worship	1,040.00	1,740.70	6493.50	3,590,169	3,317,240
Racquet Club	2,384.00	2,732.80	2821.76	4,246,228	3,923,425
Regional Shopping Center	1,434.13	1,384.61	619.92	2,298,130	2,123,424
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>11,400.29</b>	<b>11,036.68</b>	<b>14,450.60</b>	<b>21,146,751</b>	<b>19,539,151</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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00	64	25	11
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.463195	0.064650	0.187596	0.173240	0.059274	0.008298	0.013540	0.015378	0.001617	0.001278	0.007822	0.000593	0.003519

## 5.0 Energy Detail

### 5.1 Fleet Mix

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

Exceed Title 24

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
	lb/day										lb/day					
NaturalGas Mitigated	0.2866	2.6058	2.1888	0.0156		0.1980	0.1980		0.1980	0.1980						
NaturalGas Unmitigated	0.3733	3.3939	2.8509	0.0204		0.2579	0.2579		0.2579	0.2579						

### 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					
General Office Building	5521.78	0.0596	0.5414	0.4547	3.2500e-003		0.0411	0.0411		0.0411	0.0411						
High Turnover (Sit Down Restaurant)	3422.6	0.0369	0.3356	0.2819	2.0100e-003		0.0255	0.0255		0.0255	0.0255						
Hotel	13978	0.1507	1.3704	1.1511	8.2200e-003		0.1042	0.1042		0.1042	0.1042						
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Place of Worship	6984.38	0.0753	0.6847	0.5752	4.1100e-003		0.0520	0.0520		0.0520	0.0520						
Racquet Club	3438.47	0.0371	0.3371	0.2832	2.0200e-003		0.0256	0.0256		0.0256	0.0256						
Regional Shopping Center	1272.77	0.0137	0.1248	0.1048	7.5000e-004		9.4800e-003	9.4800e-003		9.4800e-003	9.4800e-003						
<b>Total</b>		<b>0.3733</b>	<b>3.3939</b>	<b>2.8509</b>	<b>0.0204</b>		<b>0.2579</b>	<b>0.2579</b>		<b>0.2579</b>	<b>0.2579</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					
General Office Building	4.17884	0.0451	0.4097	0.3441	2.4600e-003		0.0311	0.0311		0.0311	0.0311						
High Turnover (Sit Down Restaurant)	3.09496	0.0334	0.3034	0.2549	1.8200e-003		0.0231	0.0231		0.0231	0.0231						
Hotel	10.5158	0.1134	1.0310	0.8660	6.1900e-003		0.0784	0.0784		0.0784	0.0784						
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Place of Worship	5.24363	0.0566	0.5141	0.4318	3.0800e-003		0.0391	0.0391		0.0391	0.0391						
Racquet Club	2.58148	0.0278	0.2531	0.2126	1.5200e-003		0.0192	0.0192		0.0192	0.0192						
Regional Shopping Center	0.9639	0.0104	0.0945	0.0794	5.7000e-004		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003						
<b>Total</b>		<b>0.2867</b>	<b>2.6058</b>	<b>2.1888</b>	<b>0.0156</b>		<b>0.1980</b>	<b>0.1980</b>		<b>0.1980</b>	<b>0.1980</b>						

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	34.5137	3.0800e-003	0.3376	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003						
Unmitigated	39.3719	3.0800e-003	0.3376	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003						

## 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	3.6496					0.0000	0.0000		0.0000	0.0000						
Consumer Products	35.6909					0.0000	0.0000		0.0000	0.0000						
Landscaping	0.0314	3.0800e-003	0.3376	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003						
<b>Total</b>	<b>39.3719</b>	<b>3.0800e-003</b>	<b>0.3376</b>	<b>3.0000e-005</b>		<b>1.2100e-003</b>	<b>1.2100e-003</b>		<b>1.2100e-003</b>	<b>1.2100e-003</b>						

## 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	1.4598					0.0000	0.0000		0.0000	0.0000							
Consumer Products	33.0224					0.0000	0.0000		0.0000	0.0000							
Landscaping	0.0314	3.0800e-003	0.3376	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003							
<b>Total</b>	<b>34.5137</b>	<b>3.0800e-003</b>	<b>0.3376</b>	<b>3.0000e-005</b>		<b>1.2100e-003</b>	<b>1.2100e-003</b>		<b>1.2100e-003</b>	<b>1.2100e-003</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 Vegetation

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**Parcel 49 - AQ (Unmitigated)**  
**Placer-Sacramento County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	116.50	1000sqft	2.67	116,500.00	0
Place of Worship	130.00	1000sqft	2.98	130,000.00	0
High Turnover (Sit Down Restaurant)	11.20	1000sqft	0.26	11,200.00	0
Hotel	125.00	Room	4.17	181,500.00	0
Racquet Club	64.00	1000sqft	1.47	64,000.00	0
Regional Shopping Center	37.80	1000sqft	0.87	37,800.00	0
Parking Lot	2,817.00	Space	25.35	1,126,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2022
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 -

Land Use - utilized a "Racquet Club" use for the Topgolf use, but modified defaults with project-specific data where available

Construction Phase - based on information provided by the applicant

Grading - based on information provided by applicant

Architectural Coating - project required to comply with PCAPCD rules and regulations

Mobile Land Use Mitigation -

Area Mitigation - project required to comply with PCAPCD rules and regulations

Energy Mitigation - project would comply for 2013 Title 24 standards

Vehicle Trips - based on info from traffic consultant

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100

tblConstructionPhase	NumDays	55.00	395.00
tblConstructionPhase	NumDays	55.00	135.00
tblConstructionPhase	NumDays	55.00	200.00
tblConstructionPhase	NumDays	740.00	395.00
tblConstructionPhase	NumDays	740.00	135.00
tblConstructionPhase	NumDays	740.00	200.00
tblConstructionPhase	NumDays	75.00	10.00
tblConstructionPhase	NumDays	75.00	40.00
tblConstructionPhase	NumDays	75.00	10.00
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	55.00	10.00
tblConstructionPhase	NumDays	55.00	15.00
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	PhaseEndDate	7/21/2023	1/28/2022
tblConstructionPhase	PhaseEndDate	1/6/2017	7/15/2016
tblConstructionPhase	PhaseEndDate	1/18/2019	4/27/2018
tblConstructionPhase	PhaseEndDate	5/11/2018	6/12/2020
tblConstructionPhase	PhaseEndDate	7/29/2016	6/16/2017
tblConstructionPhase	PhaseStartDate	1/15/2022	7/27/2020
tblConstructionPhase	PhaseStartDate	7/2/2016	1/11/2016
tblConstructionPhase	PhaseStartDate	4/14/2018	7/24/2017
tblConstructionPhase	PhaseStartDate	7/11/2020	7/13/2020
tblConstructionPhase	PhaseStartDate	12/26/2015	12/28/2015
tblConstructionPhase	PhaseStartDate	7/8/2017	7/10/2017
tblConstructionPhase	PhaseStartDate	4/28/2018	6/1/2020
tblConstructionPhase	PhaseStartDate	10/17/2015	10/19/2015
tblConstructionPhase	PhaseStartDate	7/16/2016	6/5/2017
tblConstructionPhase	PhaseStartDate	6/13/2020	6/15/2020

tblConstructionPhase	PhaseStartDate	12/12/2015	12/14/2015
tblConstructionPhase	PhaseStartDate	6/17/2017	6/19/2017
tblGrading	AcresOfGrading	25.00	10.00
tblGrading	AcresOfGrading	100.00	40.00
tblGrading	AcresOfGrading	25.00	10.00
tblProjectCharacteristics	OperationalYear	2014	2022
tblVehicleTrips	ST_TR	2.37	2.45
tblVehicleTrips	ST_TR	158.37	113.45
tblVehicleTrips	ST_TR	8.19	28.98
tblVehicleTrips	ST_TR	10.37	13.39
tblVehicleTrips	ST_TR	20.87	42.70
tblVehicleTrips	ST_TR	49.97	36.63
tblVehicleTrips	ST_TR	0.00	0.01
tblVehicleTrips	SU_TR	0.98	1.05
tblVehicleTrips	SU_TR	131.84	101.95
tblVehicleTrips	SU_TR	5.95	26.01
tblVehicleTrips	SU_TR	36.63	49.95
tblVehicleTrips	SU_TR	26.73	44.09
tblVehicleTrips	SU_TR	25.24	16.40
tblVehicleTrips	SU_TR	0.00	0.01
tblVehicleTrips	WD_TR	11.01	9.48
tblVehicleTrips	WD_TR	127.15	111.07
tblVehicleTrips	WD_TR	8.17	33.55
tblVehicleTrips	WD_TR	9.11	8.00
tblVehicleTrips	WD_TR	32.93	37.25
tblVehicleTrips	WD_TR	42.94	37.94
tblVehicleTrips	WD_TR	0.00	0.09

## 2.0 Emissions Summary

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### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2015	9.9886	79.1336	91.6328	0.1533	18.2141	3.8033	21.3034	9.9699	3.4990	12.8120						
2016	49.4301	60.6307	93.2767	0.1684	8.5725	2.6364	11.2088	2.3113	2.4793	4.7906						
2017	35.5035	69.6611	87.0029	0.1682	8.5726	3.3182	10.9307	3.4683	3.0527	6.5211						
2018	34.3849	48.7902	81.0001	0.1680	8.5724	2.0191	10.5914	2.3113	1.8998	4.2110						
2020	20.0125	49.4371	74.9459	0.1677	8.5725	2.2630	10.1127	3.4683	2.0819	5.5502						
2021	19.4235	34.4029	72.1743	0.1675	8.5726	1.3380	9.9106	2.3114	1.2582	3.5695						
2022	19.0663	30.8568	70.2814	0.1675	8.5728	1.1721	9.7449	2.3115	1.1020	3.4135						
<b>Total</b>	<b>187.8094</b>	<b>372.9125</b>	<b>570.3141</b>	<b>1.1605</b>	<b>69.6495</b>	<b>16.5499</b>	<b>83.8025</b>	<b>26.1520</b>	<b>15.3729</b>	<b>40.8679</b>						



## 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	39.3719	3.0800e-003	0.3376	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003						
Energy	0.3733	3.3939	2.8509	0.0204		0.2579	0.2579		0.2579	0.2579						
Mobile	37.8969	62.4675	330.2412	0.9036	66.7227	0.9913	67.7139	17.8122	0.9152	18.7274						
<b>Total</b>	<b>77.6422</b>	<b>65.8645</b>	<b>333.4297</b>	<b>0.9239</b>	<b>66.7227</b>	<b>1.2504</b>	<b>67.9731</b>	<b>17.8122</b>	<b>1.1744</b>	<b>18.9865</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	34.5137	3.0800e-003	0.3376	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003						
Energy	0.2866	2.6058	2.1888	0.0156		0.1980	0.1980		0.1980	0.1980						
Mobile	37.2734	58.8121	316.5524	0.8380	61.6503	0.9274	62.5777	16.4581	0.8563	17.3143						
<b>Total</b>	<b>72.0737</b>	<b>61.4209</b>	<b>319.0788</b>	<b>0.8537</b>	<b>61.6503</b>	<b>1.1266</b>	<b>62.7769</b>	<b>16.4581</b>	<b>1.0555</b>	<b>17.5136</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	7.17	6.75	4.30	7.60	7.60	9.90	7.64	7.60	10.12	7.76	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/5/2015	10/16/2015	5	10	
2	Grading - Phase 1	Grading	10/19/2015	12/11/2015	5	40	
3	Paving - Phase 1	Paving	12/14/2015	12/25/2015	5	10	
4	Building Construction - Phase 1	Building Construction	12/28/2015	7/1/2016	5	135	
5	Architectural Coating - Phase 1	Architectural Coating	1/11/2016	7/15/2016	5	135	
6	Grading - Phase 2	Grading	6/5/2017	6/16/2017	5	10	
7	Paving - Phase 2	Paving	6/19/2017	7/7/2017	5	15	
8	Building Construction - Phase 2	Building Construction	7/10/2017	4/13/2018	5	200	
9	Arch Coating - Phase 2	Architectural Coating	7/24/2017	4/27/2018	5	200	
10	Grading - Phase 3	Grading	6/1/2020	6/12/2020	5	10	
11	Paving - Phase 3	Paving	6/15/2020	7/10/2020	5	20	
12	Building Construction - Phase 3	Building Construction	7/13/2020	1/14/2022	5	395	
13	Arch Coating - Phase 3	Architectural Coating	7/27/2020	1/28/2022	5	395	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 862,206; Non-Residential Outdoor: 287,402 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading - Phase 1	Excavators	2	8.00	162	0.38
Grading - Phase 1	Graders	1	8.00	174	0.41
Grading - Phase 1	Rubber Tired Dozers	1	8.00	255	0.40
Grading - Phase 1	Scrapers	2	8.00	361	0.48
Grading - Phase 1	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving - Phase 1	Pavers	2	8.00	125	0.42
Paving - Phase 1	Paving Equipment	2	8.00	130	0.36
Paving - Phase 1	Rollers	2	8.00	80	0.38
Building Construction - Phase 1	Cranes	1	7.00	226	0.29
Building Construction - Phase 1	Forklifts	3	8.00	89	0.20
Building Construction - Phase 1	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 1	Welders	1	8.00	46	0.45
Architectural Coating - Phase 1	Air Compressors	1	6.00	78	0.48
Grading - Phase 2	Excavators	2	8.00	162	0.38
Grading - Phase 2	Graders	1	8.00	174	0.41
Grading - Phase 2	Rubber Tired Dozers	1	8.00	255	0.40
Grading - Phase 2	Scrapers	2	8.00	361	0.48
Grading - Phase 2	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving - Phase 2	Pavers	2	8.00	125	0.42
Paving - Phase 2	Paving Equipment	2	8.00	130	0.36
Paving - Phase 2	Rollers	2	8.00	80	0.38
Building Construction - Phase 2	Cranes	1	7.00	226	0.29
Building Construction - Phase 2	Forklifts	3	8.00	89	0.20

Building Construction - Phase 2	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 2	Welders	1	8.00	46	0.45
Arch Coating - Phase 2	Air Compressors	1	6.00	78	0.48
Grading - Phase 3	Excavators	2	8.00	162	0.38
Grading - Phase 3	Graders	1	8.00	174	0.41
Grading - Phase 3	Rubber Tired Dozers	1	8.00	255	0.40
Grading - Phase 3	Scrapers	2	8.00	361	0.48
Grading - Phase 3	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving - Phase 3	Pavers	2	8.00	125	0.42
Paving - Phase 3	Paving Equipment	2	8.00	130	0.36
Paving - Phase 3	Rollers	2	8.00	80	0.38
Building Construction - Phase 3	Cranes	1	7.00	226	0.29
Building Construction - Phase 3	Forklifts	3	8.00	89	0.20
Building Construction - Phase 3	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 3	Welders	1	8.00	46	0.45
Arch Coating - Phase 3	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 1	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 1	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 1	9	685.00	273.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase 1	1	137.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 2	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 2	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 2	9	685.00	273.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Arch Coating - Phase 2	1	137.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 3	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 3	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 3	9	685.00	273.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Arch Coating - Phase 3	1	137.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

**3.2 Site Preparation - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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						
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412						
<b>Total</b>	<b>5.2609</b>	<b>56.8897</b>	<b>42.6318</b>	<b>0.0391</b>	<b>18.0663</b>	<b>3.0883</b>	<b>21.1545</b>	<b>9.9307</b>	<b>2.8412</b>	<b>12.7719</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0629	0.0783	0.7561	1.6200e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401						
<b>Total</b>	<b>0.0629</b>	<b>0.0783</b>	<b>0.7561</b>	<b>1.6200e-003</b>	<b>0.1479</b>	<b>9.6000e-004</b>	<b>0.1488</b>	<b>0.0392</b>	<b>8.8000e-004</b>	<b>0.0401</b>						

### 3.2 Site Preparation - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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						
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412						
<b>Total</b>	<b>5.2609</b>	<b>56.8897</b>	<b>42.6318</b>	<b>0.0391</b>	<b>18.0663</b>	<b>3.0883</b>	<b>21.1545</b>	<b>9.9307</b>	<b>2.8412</b>	<b>12.7719</b>						

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0629	0.0783	0.7561	1.6200e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401						
<b>Total</b>	<b>0.0629</b>	<b>0.0783</b>	<b>0.7561</b>	<b>1.6200e-003</b>	<b>0.1479</b>	<b>9.6000e-004</b>	<b>0.1488</b>	<b>0.0392</b>	<b>8.8000e-004</b>	<b>0.0401</b>						

### 3.3 Grading - Phase 1 - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247						
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980						
<b>Total</b>	<b>6.7751</b>	<b>79.0467</b>	<b>50.8400</b>	<b>0.0618</b>	<b>7.0826</b>	<b>3.8022</b>	<b>10.8848</b>	<b>3.4247</b>	<b>3.4980</b>	<b>6.9227</b>						

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0699	0.0870	0.8402	1.8000e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446						
<b>Total</b>	<b>0.0699</b>	<b>0.0870</b>	<b>0.8402</b>	<b>1.8000e-003</b>	<b>0.1643</b>	<b>1.0700e-003</b>	<b>0.1654</b>	<b>0.0436</b>	<b>9.8000e-004</b>	<b>0.0446</b>						

### 3.3 Grading - Phase 1 - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247						
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980						
<b>Total</b>	<b>6.7751</b>	<b>79.0467</b>	<b>50.8400</b>	<b>0.0618</b>	<b>7.0826</b>	<b>3.8022</b>	<b>10.8848</b>	<b>3.4247</b>	<b>3.4980</b>	<b>6.9227</b>						

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0699	0.0870	0.8402	1.8000e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446						
<b>Total</b>	<b>0.0699</b>	<b>0.0870</b>	<b>0.8402</b>	<b>1.8000e-003</b>	<b>0.1643</b>	<b>1.0700e-003</b>	<b>0.1654</b>	<b>0.0436</b>	<b>9.8000e-004</b>	<b>0.0446</b>						

**3.4 Paving - Phase 1 - 2015****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016						
Paving	6.6417					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>8.9589</b>	<b>25.1758</b>	<b>14.9781</b>	<b>0.0223</b>		<b>1.4148</b>	<b>1.4148</b>		<b>1.3016</b>	<b>1.3016</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0524	0.0652	0.6301	1.3500e-003	0.1232	8.0000e-004	0.1240	0.0327	7.3000e-004	0.0334						
<b>Total</b>	<b>0.0524</b>	<b>0.0652</b>	<b>0.6301</b>	<b>1.3500e-003</b>	<b>0.1232</b>	<b>8.0000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.3000e-004</b>	<b>0.0334</b>						

**3.4 Paving - Phase 1 - 2015****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016						
Paving	6.6417					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>8.9589</b>	<b>25.1758</b>	<b>14.9781</b>	<b>0.0223</b>		<b>1.4148</b>	<b>1.4148</b>		<b>1.3016</b>	<b>1.3016</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0524	0.0652	0.6301	1.3500e-003	0.1232	8.0000e-004	0.1240	0.0327	7.3000e-004	0.0334						
<b>Total</b>	<b>0.0524</b>	<b>0.0652</b>	<b>0.6301</b>	<b>1.3500e-003</b>	<b>0.1232</b>	<b>8.0000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.3000e-004</b>	<b>0.0334</b>						

### 3.5 Building Construction - Phase 1 - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904						
<b>Total</b>	<b>3.6591</b>	<b>30.0299</b>	<b>18.7446</b>	<b>0.0268</b>		<b>2.1167</b>	<b>2.1167</b>		<b>1.9904</b>	<b>1.9904</b>						

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	3.9349	30.5383	44.1127	0.0650	1.8197	0.5121	2.3318	0.5201	0.4707	0.9909						
Worker	2.3946	2.9788	28.7755	0.0615	5.6271	0.0366	5.6637	1.4926	0.0335	1.5260						
<b>Total</b>	<b>6.3295</b>	<b>33.5170</b>	<b>72.8883</b>	<b>0.1265</b>	<b>7.4468</b>	<b>0.5487</b>	<b>7.9955</b>	<b>2.0127</b>	<b>0.5042</b>	<b>2.5169</b>						

### 3.5 Building Construction - Phase 1 - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904							
<b>Total</b>	<b>3.6591</b>	<b>30.0299</b>	<b>18.7446</b>	<b>0.0268</b>		<b>2.1167</b>	<b>2.1167</b>		<b>1.9904</b>	<b>1.9904</b>							

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	3.9349	30.5383	44.1127	0.0650	1.8197	0.5121	2.3318	0.5201	0.4707	0.9909							
Worker	2.3946	2.9788	28.7755	0.0615	5.6271	0.0366	5.6637	1.4926	0.0335	1.5260							
<b>Total</b>	<b>6.3295</b>	<b>33.5170</b>	<b>72.8883</b>	<b>0.1265</b>	<b>7.4468</b>	<b>0.5487</b>	<b>7.9955</b>	<b>2.0127</b>	<b>0.5042</b>	<b>2.5169</b>							

### 3.5 Building Construction - Phase 1 - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485						
<b>Total</b>	<b>3.4062</b>	<b>28.5063</b>	<b>18.5066</b>	<b>0.0268</b>		<b>1.9674</b>	<b>1.9674</b>		<b>1.8485</b>	<b>1.8485</b>						

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	3.6252	26.5640	42.2157	0.0648	1.8199	0.4301	2.2500	0.5202	0.3954	0.9156						
Worker	2.1336	2.6568	25.5587	0.0615	5.6271	0.0352	5.6624	1.4926	0.0323	1.5249						
<b>Total</b>	<b>5.7588</b>	<b>29.2208</b>	<b>67.7744</b>	<b>0.1263</b>	<b>7.4470</b>	<b>0.4653</b>	<b>7.9124</b>	<b>2.0128</b>	<b>0.4277</b>	<b>2.4405</b>						

### 3.5 Building Construction - Phase 1 - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485						
<b>Total</b>	<b>3.4062</b>	<b>28.5063</b>	<b>18.5066</b>	<b>0.0268</b>		<b>1.9674</b>	<b>1.9674</b>		<b>1.8485</b>	<b>1.8485</b>						

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	3.6252	26.5640	42.2157	0.0648	1.8199	0.4301	2.2500	0.5202	0.3954	0.9156						
Worker	2.1336	2.6568	25.5587	0.0615	5.6271	0.0352	5.6624	1.4926	0.0323	1.5249						
<b>Total</b>	<b>5.7588</b>	<b>29.2208</b>	<b>67.7744</b>	<b>0.1263</b>	<b>7.4470</b>	<b>0.4653</b>	<b>7.9124</b>	<b>2.0128</b>	<b>0.4277</b>	<b>2.4405</b>						

### 3.6 Architectural Coating - Phase 1 - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	39.4699					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966						
<b>Total</b>	<b>39.8383</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>						

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.4267	0.5314	5.1117	0.0123	1.1254	7.0500e-003	1.1325	0.2985	6.4700e-003	0.3050						
<b>Total</b>	<b>0.4267</b>	<b>0.5314</b>	<b>5.1117</b>	<b>0.0123</b>	<b>1.1254</b>	<b>7.0500e-003</b>	<b>1.1325</b>	<b>0.2985</b>	<b>6.4700e-003</b>	<b>0.3050</b>						

### 3.6 Architectural Coating - Phase 1 - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	39.4699					0.0000	0.0000		0.0000	0.0000							
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966							
<b>Total</b>	<b>39.8383</b>	<b>2.3722</b>	<b>1.8839</b>	<b>2.9700e-003</b>		<b>0.1966</b>	<b>0.1966</b>		<b>0.1966</b>	<b>0.1966</b>							

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	0.4267	0.5314	5.1117	0.0123	1.1254	7.0500e-003	1.1325	0.2985	6.4700e-003	0.3050							
<b>Total</b>	<b>0.4267</b>	<b>0.5314</b>	<b>5.1117</b>	<b>0.0123</b>	<b>1.1254</b>	<b>7.0500e-003</b>	<b>1.1325</b>	<b>0.2985</b>	<b>6.4700e-003</b>	<b>0.3050</b>							

**3.7 Grading - Phase 2 - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247						
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518						
<b>Total</b>	<b>6.0991</b>	<b>69.5920</b>	<b>46.8050</b>	<b>0.0617</b>	<b>7.0826</b>	<b>3.3172</b>	<b>10.3998</b>	<b>3.4247</b>	<b>3.0518</b>	<b>6.4766</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0550	0.0691	0.6594	1.7900e-003	0.1643	1.0000e-003	0.1653	0.0436	9.3000e-004	0.0445						
<b>Total</b>	<b>0.0550</b>	<b>0.0691</b>	<b>0.6594</b>	<b>1.7900e-003</b>	<b>0.1643</b>	<b>1.0000e-003</b>	<b>0.1653</b>	<b>0.0436</b>	<b>9.3000e-004</b>	<b>0.0445</b>						

**3.7 Grading - Phase 2 - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247						
Off-Road	6.0991	69.5920	46.8050	0.0617		3.3172	3.3172		3.0518	3.0518						
<b>Total</b>	<b>6.0991</b>	<b>69.5920</b>	<b>46.8050</b>	<b>0.0617</b>	<b>7.0826</b>	<b>3.3172</b>	<b>10.3998</b>	<b>3.4247</b>	<b>3.0518</b>	<b>6.4766</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0550	0.0691	0.6594	1.7900e-003	0.1643	1.0000e-003	0.1653	0.0436	9.3000e-004	0.0445						
<b>Total</b>	<b>0.0550</b>	<b>0.0691</b>	<b>0.6594</b>	<b>1.7900e-003</b>	<b>0.1643</b>	<b>1.0000e-003</b>	<b>0.1653</b>	<b>0.0436</b>	<b>9.3000e-004</b>	<b>0.0445</b>						

**3.8 Paving - Phase 2 - 2017****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473						
Paving	4.4278					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>6.3352</b>	<b>20.2964</b>	<b>14.7270</b>	<b>0.0223</b>		<b>1.1384</b>	<b>1.1384</b>		<b>1.0473</b>	<b>1.0473</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0412	0.0518	0.4946	1.3500e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334						
<b>Total</b>	<b>0.0412</b>	<b>0.0518</b>	<b>0.4946</b>	<b>1.3500e-003</b>	<b>0.1232</b>	<b>7.5000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>6.9000e-004</b>	<b>0.0334</b>						

### 3.8 Paving - Phase 2 - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9074	20.2964	14.7270	0.0223		1.1384	1.1384		1.0473	1.0473						
Paving	4.4278					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>6.3352</b>	<b>20.2964</b>	<b>14.7270</b>	<b>0.0223</b>		<b>1.1384</b>	<b>1.1384</b>		<b>1.0473</b>	<b>1.0473</b>						

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0412	0.0518	0.4946	1.3500e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334						
<b>Total</b>	<b>0.0412</b>	<b>0.0518</b>	<b>0.4946</b>	<b>1.3500e-003</b>	<b>0.1232</b>	<b>7.5000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>6.9000e-004</b>	<b>0.0334</b>						

### 3.9 Building Construction - Phase 2 - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730							
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>		<b>1.7812</b>	<b>1.7812</b>		<b>1.6730</b>	<b>1.6730</b>							

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	3.1665	23.3931	39.9037	0.0647	1.8201	0.3622	2.1823	0.5203	0.3330	0.8533							
Worker	1.8835	2.3675	22.5850	0.0614	5.6271	0.0344	5.6615	1.4926	0.0317	1.5243							
<b>Total</b>	<b>5.0500</b>	<b>25.7606</b>	<b>62.4887</b>	<b>0.1261</b>	<b>7.4472</b>	<b>0.3966</b>	<b>7.8439</b>	<b>2.0129</b>	<b>0.3648</b>	<b>2.3776</b>							

### 3.9 Building Construction - Phase 2 - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730						
<b>Total</b>	<b>3.1024</b>	<b>26.4057</b>	<b>18.1291</b>	<b>0.0268</b>		<b>1.7812</b>	<b>1.7812</b>		<b>1.6730</b>	<b>1.6730</b>						

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	3.1665	23.3931	39.9037	0.0647	1.8201	0.3622	2.1823	0.5203	0.3330	0.8533						
Worker	1.8835	2.3675	22.5850	0.0614	5.6271	0.0344	5.6615	1.4926	0.0317	1.5243						
<b>Total</b>	<b>5.0500</b>	<b>25.7606</b>	<b>62.4887</b>	<b>0.1261</b>	<b>7.4472</b>	<b>0.3966</b>	<b>7.8439</b>	<b>2.0129</b>	<b>0.3648</b>	<b>2.3776</b>						

### 3.9 Building Construction - Phase 2 - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048							
<b>Total</b>	<b>2.6687</b>	<b>23.2608</b>	<b>17.5327</b>	<b>0.0268</b>		<b>1.4943</b>	<b>1.4943</b>		<b>1.4048</b>	<b>1.4048</b>							

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	2.7588	20.9658	37.4079	0.0645	1.8198	0.3333	2.1531	0.5202	0.3065	0.8267							
Worker	1.6805	2.1315	20.1711	0.0614	5.6271	0.0341	5.6612	1.4926	0.0316	1.5241							
<b>Total</b>	<b>4.4393</b>	<b>23.0973</b>	<b>57.5790</b>	<b>0.1259</b>	<b>7.4469</b>	<b>0.3674</b>	<b>7.8143</b>	<b>2.0128</b>	<b>0.3381</b>	<b>2.3509</b>							

### 3.9 Building Construction - Phase 2 - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.6687	23.2608	17.5327	0.0268		1.4943	1.4943		1.4048	1.4048							
<b>Total</b>	<b>2.6687</b>	<b>23.2608</b>	<b>17.5327</b>	<b>0.0268</b>		<b>1.4943</b>	<b>1.4943</b>		<b>1.4048</b>	<b>1.4048</b>							

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	2.7588	20.9658	37.4079	0.0645	1.8198	0.3333	2.1531	0.5202	0.3065	0.8267							
Worker	1.6805	2.1315	20.1711	0.0614	5.6271	0.0341	5.6612	1.4926	0.0316	1.5241							
<b>Total</b>	<b>4.4393</b>	<b>23.0973</b>	<b>57.5790</b>	<b>0.1259</b>	<b>7.4469</b>	<b>0.3674</b>	<b>7.8143</b>	<b>2.0128</b>	<b>0.3381</b>	<b>2.3509</b>							

**3.10 Arch Coating - Phase 2 - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	26.6422					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733						
<b>Total</b>	<b>26.9745</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.3767	0.4735	4.5170	0.0123	1.1254	6.8800e-003	1.1323	0.2985	6.3500e-003	0.3049						
<b>Total</b>	<b>0.3767</b>	<b>0.4735</b>	<b>4.5170</b>	<b>0.0123</b>	<b>1.1254</b>	<b>6.8800e-003</b>	<b>1.1323</b>	<b>0.2985</b>	<b>6.3500e-003</b>	<b>0.3049</b>						

**3.10 Arch Coating - Phase 2 - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	26.6422					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733						
<b>Total</b>	<b>26.9745</b>	<b>2.1850</b>	<b>1.8681</b>	<b>2.9700e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1733</b>	<b>0.1733</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.3767	0.4735	4.5170	0.0123	1.1254	6.8800e-003	1.1323	0.2985	6.3500e-003	0.3049						
<b>Total</b>	<b>0.3767</b>	<b>0.4735</b>	<b>4.5170</b>	<b>0.0123</b>	<b>1.1254</b>	<b>6.8800e-003</b>	<b>1.1323</b>	<b>0.2985</b>	<b>6.3500e-003</b>	<b>0.3049</b>						

**3.10 Arch Coating - Phase 2 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.6422					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506						
<b>Total</b>	<b>26.9408</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.3361	0.4263	4.0342	0.0123	1.1254	6.8200e-003	1.1322	0.2985	6.3100e-003	0.3048						
<b>Total</b>	<b>0.3361</b>	<b>0.4263</b>	<b>4.0342</b>	<b>0.0123</b>	<b>1.1254</b>	<b>6.8200e-003</b>	<b>1.1322</b>	<b>0.2985</b>	<b>6.3100e-003</b>	<b>0.3048</b>						

**3.10 Arch Coating - Phase 2 - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.6422					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506						
<b>Total</b>	<b>26.9408</b>	<b>2.0058</b>	<b>1.8542</b>	<b>2.9700e-003</b>		<b>0.1506</b>	<b>0.1506</b>		<b>0.1506</b>	<b>0.1506</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.3361	0.4263	4.0342	0.0123	1.1254	6.8200e-003	1.1322	0.2985	6.3100e-003	0.3048						
<b>Total</b>	<b>0.3361</b>	<b>0.4263</b>	<b>4.0342</b>	<b>0.0123</b>	<b>1.1254</b>	<b>6.8200e-003</b>	<b>1.1322</b>	<b>0.2985</b>	<b>6.3100e-003</b>	<b>0.3048</b>						

**3.11 Grading - Phase 3 - 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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247						
Off-Road	4.5501	49.3839	38.4257	0.0617		2.2619	2.2619		2.0810	2.0810						
<b>Total</b>	<b>4.5501</b>	<b>49.3839</b>	<b>38.4257</b>	<b>0.0617</b>	<b>7.0826</b>	<b>2.2619</b>	<b>9.3445</b>	<b>3.4247</b>	<b>2.0810</b>	<b>5.5057</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0423	0.0531	0.5038	1.7900e-003	0.1643	1.0100e-003	0.1653	0.0436	9.4000e-004	0.0445						
<b>Total</b>	<b>0.0423</b>	<b>0.0531</b>	<b>0.5038</b>	<b>1.7900e-003</b>	<b>0.1643</b>	<b>1.0100e-003</b>	<b>0.1653</b>	<b>0.0436</b>	<b>9.4000e-004</b>	<b>0.0445</b>						

**3.11 Grading - Phase 3 - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247						
Off-Road	4.5501	49.3839	38.4257	0.0617		2.2619	2.2619		2.0810	2.0810						
<b>Total</b>	<b>4.5501</b>	<b>49.3839</b>	<b>38.4257</b>	<b>0.0617</b>	<b>7.0826</b>	<b>2.2619</b>	<b>9.3445</b>	<b>3.4247</b>	<b>2.0810</b>	<b>5.5057</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0423	0.0531	0.5038	1.7900e-003	0.1643	1.0100e-003	0.1653	0.0436	9.4000e-004	0.0445						
<b>Total</b>	<b>0.0423</b>	<b>0.0531</b>	<b>0.5038</b>	<b>1.7900e-003</b>	<b>0.1643</b>	<b>1.0100e-003</b>	<b>0.1653</b>	<b>0.0436</b>	<b>9.4000e-004</b>	<b>0.0445</b>						

**3.12 Paving - Phase 3 - 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					
Off-Road	1.3301	13.7845	14.3523	0.0223		0.7390	0.7390		0.6799	0.6799						
Paving	3.3209					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>4.6509</b>	<b>13.7845</b>	<b>14.3523</b>	<b>0.0223</b>		<b>0.7390</b>	<b>0.7390</b>		<b>0.6799</b>	<b>0.6799</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0317	0.0399	0.3778	1.3400e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334						
<b>Total</b>	<b>0.0317</b>	<b>0.0399</b>	<b>0.3778</b>	<b>1.3400e-003</b>	<b>0.1232</b>	<b>7.6000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.0000e-004</b>	<b>0.0334</b>						

**3.12 Paving - Phase 3 - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3301	13.7845	14.3523	0.0223		0.7390	0.7390		0.6799	0.6799						
Paving	3.3209					0.0000	0.0000		0.0000	0.0000						
<b>Total</b>	<b>4.6509</b>	<b>13.7845</b>	<b>14.3523</b>	<b>0.0223</b>		<b>0.7390</b>	<b>0.7390</b>		<b>0.6799</b>	<b>0.6799</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.0317	0.0399	0.3778	1.3400e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334						
<b>Total</b>	<b>0.0317</b>	<b>0.0399</b>	<b>0.3778</b>	<b>1.3400e-003</b>	<b>0.1232</b>	<b>7.6000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.0000e-004</b>	<b>0.0334</b>						

**3.13 Building Construction - Phase 3 - 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					
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465						
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	2.4315	16.3001	35.6003	0.0643	1.8200	0.2749	2.0949	0.5202	0.2529	0.7731						
Worker	1.4482	1.8198	17.2548	0.0613	5.6271	0.0346	5.6617	1.4926	0.0321	1.5246						
<b>Total</b>	<b>3.8797</b>	<b>18.1198</b>	<b>52.8551</b>	<b>0.1256</b>	<b>7.4471</b>	<b>0.3095</b>	<b>7.7566</b>	<b>2.0128</b>	<b>0.2850</b>	<b>2.2978</b>						

**3.13 Building Construction - Phase 3 - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1113	19.0839	16.8084	0.0268		1.1128	1.1128		1.0465	1.0465						
<b>Total</b>	<b>2.1113</b>	<b>19.0839</b>	<b>16.8084</b>	<b>0.0268</b>		<b>1.1128</b>	<b>1.1128</b>		<b>1.0465</b>	<b>1.0465</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	2.4315	16.3001	35.6003	0.0643	1.8200	0.2749	2.0949	0.5202	0.2529	0.7731						
Worker	1.4482	1.8198	17.2548	0.0613	5.6271	0.0346	5.6617	1.4926	0.0321	1.5246						
<b>Total</b>	<b>3.8797</b>	<b>18.1198</b>	<b>52.8551</b>	<b>0.1256</b>	<b>7.4471</b>	<b>0.3095</b>	<b>7.7566</b>	<b>2.0128</b>	<b>0.2850</b>	<b>2.2978</b>						

**3.13 Building Construction - Phase 3 - 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	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979						
<b>Total</b>	<b>1.8931</b>	<b>17.3403</b>	<b>16.5376</b>	<b>0.0268</b>		<b>0.9549</b>	<b>0.9549</b>		<b>0.8979</b>	<b>0.8979</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	2.1748	13.4816	34.3215	0.0642	1.8201	0.2470	2.0671	0.5203	0.2272	0.7475						
Worker	1.3725	1.7119	16.2479	0.0613	5.6271	0.0350	5.6622	1.4926	0.0325	1.5251						
<b>Total</b>	<b>3.5473</b>	<b>15.1934</b>	<b>50.5695</b>	<b>0.1255</b>	<b>7.4472</b>	<b>0.2820</b>	<b>7.7292</b>	<b>2.0129</b>	<b>0.2597</b>	<b>2.2726</b>						

**3.13 Building Construction - Phase 3 - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8931	17.3403	16.5376	0.0268		0.9549	0.9549		0.8979	0.8979						
<b>Total</b>	<b>1.8931</b>	<b>17.3403</b>	<b>16.5376</b>	<b>0.0268</b>		<b>0.9549</b>	<b>0.9549</b>		<b>0.8979</b>	<b>0.8979</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	2.1748	13.4816	34.3215	0.0642	1.8201	0.2470	2.0671	0.5203	0.2272	0.7475						
Worker	1.3725	1.7119	16.2479	0.0613	5.6271	0.0350	5.6622	1.4926	0.0325	1.5251						
<b>Total</b>	<b>3.5473</b>	<b>15.1934</b>	<b>50.5695</b>	<b>0.1255</b>	<b>7.4472</b>	<b>0.2820</b>	<b>7.7292</b>	<b>2.0129</b>	<b>0.2597</b>	<b>2.2726</b>						

**3.13 Building Construction - Phase 3 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6992	15.5364	16.3276	0.0268		0.8057	0.8057		0.7581	0.7581						
<b>Total</b>	<b>1.6992</b>	<b>15.5364</b>	<b>16.3276</b>	<b>0.0268</b>		<b>0.8057</b>	<b>0.8057</b>		<b>0.7581</b>	<b>0.7581</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	2.1059	11.9683	33.6884	0.0641	1.8203	0.2420	2.0622	0.5204	0.2226	0.7430						
Worker	1.3058	1.6198	15.3765	0.0613	5.6271	0.0356	5.6627	1.4926	0.0330	1.5256						
<b>Total</b>	<b>3.4118</b>	<b>13.5880</b>	<b>49.0649</b>	<b>0.1254</b>	<b>7.4474</b>	<b>0.2775</b>	<b>7.7249</b>	<b>2.0129</b>	<b>0.2556</b>	<b>2.2685</b>						

**3.13 Building Construction - Phase 3 - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6992	15.5364	16.3276	0.0268		0.8057	0.8057		0.7581	0.7581						
<b>Total</b>	<b>1.6992</b>	<b>15.5364</b>	<b>16.3276</b>	<b>0.0268</b>		<b>0.8057</b>	<b>0.8057</b>		<b>0.7581</b>	<b>0.7581</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	2.1059	11.9683	33.6884	0.0641	1.8203	0.2420	2.0622	0.5204	0.2226	0.7430						
Worker	1.3058	1.6198	15.3765	0.0613	5.6271	0.0356	5.6627	1.4926	0.0330	1.5256						
<b>Total</b>	<b>3.4118</b>	<b>13.5880</b>	<b>49.0649</b>	<b>0.1254</b>	<b>7.4474</b>	<b>0.2775</b>	<b>7.7249</b>	<b>2.0129</b>	<b>0.2556</b>	<b>2.2685</b>						

**3.14 Arch Coating - Phase 3 - 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						
Archit. Coating	13.4897					0.0000	0.0000		0.0000	0.0000							
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109							
<b>Total</b>	<b>13.7319</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>							

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	0.2896	0.3640	3.4510	0.0123	1.1254	6.9100e-003	1.1323	0.2985	6.4100e-003	0.3049							
<b>Total</b>	<b>0.2896</b>	<b>0.3640</b>	<b>3.4510</b>	<b>0.0123</b>	<b>1.1254</b>	<b>6.9100e-003</b>	<b>1.1323</b>	<b>0.2985</b>	<b>6.4100e-003</b>	<b>0.3049</b>							

**3.14 Arch Coating - Phase 3 - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	13.4897					0.0000	0.0000		0.0000	0.0000							
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109							
<b>Total</b>	<b>13.7319</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>							

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000							
Worker	0.2896	0.3640	3.4510	0.0123	1.1254	6.9100e-003	1.1323	0.2985	6.4100e-003	0.3049							
<b>Total</b>	<b>0.2896</b>	<b>0.3640</b>	<b>3.4510</b>	<b>0.0123</b>	<b>1.1254</b>	<b>6.9100e-003</b>	<b>1.1323</b>	<b>0.2985</b>	<b>6.4100e-003</b>	<b>0.3049</b>							

**3.14 Arch Coating - Phase 3 - 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					
Archit. Coating	13.4897					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941						
<b>Total</b>	<b>13.7086</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.2745	0.3424	3.2496	0.0123	1.1254	7.0100e-003	1.1324	0.2985	6.5000e-003	0.3050						
<b>Total</b>	<b>0.2745</b>	<b>0.3424</b>	<b>3.2496</b>	<b>0.0123</b>	<b>1.1254</b>	<b>7.0100e-003</b>	<b>1.1324</b>	<b>0.2985</b>	<b>6.5000e-003</b>	<b>0.3050</b>						

**3.14 Arch Coating - Phase 3 - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.4897					0.0000	0.0000		0.0000	0.0000						
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941						
<b>Total</b>	<b>13.7086</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.2745	0.3424	3.2496	0.0123	1.1254	7.0100e-003	1.1324	0.2985	6.5000e-003	0.3050						
<b>Total</b>	<b>0.2745</b>	<b>0.3424</b>	<b>3.2496</b>	<b>0.0123</b>	<b>1.1254</b>	<b>7.0100e-003</b>	<b>1.1324</b>	<b>0.2985</b>	<b>6.5000e-003</b>	<b>0.3050</b>						

**3.14 Arch Coating - Phase 3 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.4897					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						
<b>Total</b>	<b>13.6942</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>						

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.2612	0.3240	3.0753	0.0123	1.1254	7.1100e-003	1.1325	0.2985	6.6000e-003	0.3051						
<b>Total</b>	<b>0.2612</b>	<b>0.3240</b>	<b>3.0753</b>	<b>0.0123</b>	<b>1.1254</b>	<b>7.1100e-003</b>	<b>1.1325</b>	<b>0.2985</b>	<b>6.6000e-003</b>	<b>0.3051</b>						

**3.14 Arch Coating - Phase 3 - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	13.4897					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						
<b>Total</b>	<b>13.6942</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>						

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						
Worker	0.2612	0.3240	3.0753	0.0123	1.1254	7.1100e-003	1.1325	0.2985	6.6000e-003	0.3051						
<b>Total</b>	<b>0.2612</b>	<b>0.3240</b>	<b>3.0753</b>	<b>0.0123</b>	<b>1.1254</b>	<b>7.1100e-003</b>	<b>1.1325</b>	<b>0.2985</b>	<b>6.6000e-003</b>	<b>0.3051</b>						

**4.0 Operational Detail - Mobile**

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### 4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	37.2734	58.8121	316.5524	0.8380	61.6503	0.9274	62.5777	16.4581	0.8563	17.3143						
Unmitigated	37.8969	62.4675	330.2412	0.9036	66.7227	0.9913	67.7139	17.8122	0.9152	18.7274						

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	1,104.42	285.43	122.33	2,024,411	1,870,513
High Turnover (Sit Down Restaurant)	1,243.98	1,270.64	1141.84	1,430,838	1,322,064
Hotel	4,193.75	3,622.50	3251.25	7,556,975	6,982,485
Place of Worship	1,040.00	1,740.70	6493.50	3,590,169	3,317,240
Racquet Club	2,384.00	2,732.80	2821.76	4,246,228	3,923,425
Regional Shopping Center	1,434.13	1,384.61	619.92	2,298,130	2,123,424
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>11,400.29</b>	<b>11,036.68</b>	<b>14,450.60</b>	<b>21,146,751</b>	<b>19,539,151</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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00	64	25	11
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.463195	0.064650	0.187596	0.173240	0.059274	0.008298	0.013540	0.015378	0.001617	0.001278	0.007822	0.000593	0.003519

## 5.0 Energy Detail

### 5.1 Fleet Mix

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

Exceed Title 24

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
NaturalGas Mitigated	0.2866	2.6058	2.1888	0.0156		0.1980	0.1980		0.1980	0.1980						
NaturalGas Unmitigated	0.3733	3.3939	2.8509	0.0204		0.2579	0.2579		0.2579	0.2579						

**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					
General Office Building	5521.78	0.0596	0.5414	0.4547	3.2500e-003		0.0411	0.0411		0.0411	0.0411						
High Turnover (Sit Down Restaurant)	3422.6	0.0369	0.3356	0.2819	2.0100e-003		0.0255	0.0255		0.0255	0.0255						
Hotel	13978	0.1507	1.3704	1.1511	8.2200e-003		0.1042	0.1042		0.1042	0.1042						
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Place of Worship	6984.38	0.0753	0.6847	0.5752	4.1100e-003		0.0520	0.0520		0.0520	0.0520						
Racquet Club	3438.47	0.0371	0.3371	0.2832	2.0200e-003		0.0256	0.0256		0.0256	0.0256						
Regional Shopping Center	1272.77	0.0137	0.1248	0.1048	7.5000e-004		9.4800e-003	9.4800e-003		9.4800e-003	9.4800e-003						
<b>Total</b>		<b>0.3733</b>	<b>3.3939</b>	<b>2.8509</b>	<b>0.0204</b>		<b>0.2579</b>	<b>0.2579</b>		<b>0.2579</b>	<b>0.2579</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					
General Office Building	4.17884	0.0451	0.4097	0.3441	2.4600e-003		0.0311	0.0311		0.0311	0.0311						
High Turnover (Sit Down Restaurant)	3.09496	0.0334	0.3034	0.2549	1.8200e-003		0.0231	0.0231		0.0231	0.0231						
Hotel	10.5158	0.1134	1.0310	0.8660	6.1900e-003		0.0784	0.0784		0.0784	0.0784						
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						
Place of Worship	5.24363	0.0566	0.5141	0.4318	3.0800e-003		0.0391	0.0391		0.0391	0.0391						
Racquet Club	2.58148	0.0278	0.2531	0.2126	1.5200e-003		0.0192	0.0192		0.0192	0.0192						
Regional Shopping Center	0.9639	0.0104	0.0945	0.0794	5.7000e-004		7.1800e-003	7.1800e-003		7.1800e-003	7.1800e-003						
<b>Total</b>		<b>0.2867</b>	<b>2.6058</b>	<b>2.1888</b>	<b>0.0156</b>		<b>0.1980</b>	<b>0.1980</b>		<b>0.1980</b>	<b>0.1980</b>						

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	34.5137	3.0800e-003	0.3376	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003						
Unmitigated	39.3719	3.0800e-003	0.3376	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003						

## 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	3.6496					0.0000	0.0000		0.0000	0.0000						
Consumer Products	35.6909					0.0000	0.0000		0.0000	0.0000						
Landscaping	0.0314	3.0800e-003	0.3376	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003						
<b>Total</b>	<b>39.3719</b>	<b>3.0800e-003</b>	<b>0.3376</b>	<b>3.0000e-005</b>		<b>1.2100e-003</b>	<b>1.2100e-003</b>		<b>1.2100e-003</b>	<b>1.2100e-003</b>						

## 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	1.4598					0.0000	0.0000		0.0000	0.0000						
Consumer Products	33.0224					0.0000	0.0000		0.0000	0.0000						
Landscaping	0.0314	3.0800e-003	0.3376	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003						
<b>Total</b>	<b>34.5137</b>	<b>3.0800e-003</b>	<b>0.3376</b>	<b>3.0000e-005</b>		<b>1.2100e-003</b>	<b>1.2100e-003</b>		<b>1.2100e-003</b>	<b>1.2100e-003</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 Vegetation

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**Parcel 49 - AQ (Unmitigated)**  
**Placer-Sacramento County, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Arch Coating - Phase 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coating - Phase 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating - Phase 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	3	No Change	0.00
Cranes	Diesel	No Change	0	3	No Change	0.00
Excavators	Diesel	No Change	0	6	No Change	0.00
Forklifts	Diesel	No Change	0	9	No Change	0.00
Generator Sets	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	3	No Change	0.00
Pavers	Diesel	No Change	0	6	No Change	0.00
Paving Equipment	Diesel	No Change	0	6	No Change	0.00
Rollers	Diesel	No Change	0	6	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Scrapers	Diesel	No Change	0	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	19	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	1.01090E-001	6.80330E-001	6.73100E-001	1.08000E-003	4.90600E-002	4.90600E-002						
Cranes	1.68110E-001	1.98987E+000	7.50020E-001	1.80000E-003	8.56600E-002	7.88100E-002						
Excavators	2.28000E-002	2.59500E-001	2.05280E-001	3.20000E-004	1.27800E-002	1.17600E-002						
Forklifts	1.84760E-001	1.63462E+000	1.32035E+000	1.67000E-003	1.27320E-001	1.17140E-001						
Generator Sets	1.70910E-001	1.40389E+000	1.36212E+000	2.40000E-003	8.63400E-002	8.63400E-002						
Graders	2.95600E-002	3.00360E-001	1.46580E-001	1.90000E-004	1.68700E-002	1.55200E-002						
Pavers	1.49800E-002	1.65770E-001	1.27120E-001	2.00000E-004	8.17000E-003	7.52000E-003						
Paving Equipment	1.17200E-002	1.31410E-001	1.13590E-001	1.80000E-004	6.52000E-003	6.00000E-003						
Rollers	1.24900E-002	1.18770E-001	8.81500E-002	1.20000E-004	8.31000E-003	7.65000E-003						
Rubber Tired Dozers	5.53200E-002	6.20250E-001	4.73560E-001	4.00000E-004	2.88900E-002	2.65800E-002						
Scrapers	8.04800E-002	1.02274E+000	6.38410E-001	8.90000E-004	4.11000E-002	3.78200E-002						
Tractors/Loaders/Backhoes	2.65910E-001	2.60739E+000	2.41725E+000	3.23000E-003	1.81270E-001	1.66770E-001						
Welders	1.48040E-001	5.95290E-001	6.64670E-001	9.30000E-004	3.72400E-002	3.72400E-002						

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	1.01090E-001	6.80320E-001	6.73100E-001	1.08000E-003	4.90600E-002	4.90600E-002						
Cranes	1.68110E-001	1.98987E+000	7.50020E-001	1.80000E-003	8.56600E-002	7.88100E-002						
Excavators	2.28000E-002	2.59500E-001	2.05280E-001	3.20000E-004	1.27800E-002	1.17600E-002						
Forklifts	1.84750E-001	1.63462E+000	1.32035E+000	1.67000E-003	1.27320E-001	1.17140E-001						
Generator Sets	1.70910E-001	1.40389E+000	1.36212E+000	2.40000E-003	8.63400E-002	8.63400E-002						
Graders	2.95600E-002	3.00350E-001	1.46580E-001	1.90000E-004	1.68700E-002	1.55200E-002						
Pavers	1.49800E-002	1.65770E-001	1.27120E-001	2.00000E-004	8.17000E-003	7.52000E-003						
Paving Equipment	1.17200E-002	1.31410E-001	1.13590E-001	1.80000E-004	6.52000E-003	6.00000E-003						
Rollers	1.24900E-002	1.18770E-001	8.81500E-002	1.20000E-004	8.31000E-003	7.65000E-003						
Rubber Tired Dozers	5.53200E-002	6.20250E-001	4.73560E-001	4.00000E-004	2.88900E-002	2.65800E-002						
Scrapers	8.04800E-002	1.02274E+000	6.38410E-001	8.90000E-004	4.11000E-002	3.78200E-002						
Tractors/Loaders/Balckhoes	2.65910E-001	2.60739E+000	2.41725E+000	3.23000E-003	1.81270E-001	1.66770E-001						
Welders	1.48040E-001	5.95280E-001	6.64670E-001	9.30000E-004	3.72400E-002	3.72400E-002						





Paving - Phase 1	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 2	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 3	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.09	0.05	0.09	0.05	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

### Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	7.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	1.69	5.82	4.72	7.26	6.45	6.44	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	23.23	23.22	23.22	23.39	23.24	23.24	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.19	0.47		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
Yes	Land Use	Increase Transit Accessibility	0.06	1.22		
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.06			
Yes	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off-Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.01			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.02			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.08			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				

No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00	2.00	
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.08		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
Yes	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	100.00
Yes	Use Low VOC Paint (Residential Exterior)	100.00
Yes	Use Low VOC Paint (Non-residential Interior)	100.00
Yes	Use Low VOC Paint (Non-residential Exterior)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	25.00	
No	Install High Efficiency Lighting		
No	On-site Renewable		

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

### Water Mitigation Measures

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

**Solid Waste Mitigation**

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

**Parcel 49 - GHG - YEAR 2020 (Unmitigated)**  
**Placer-Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	116.50	1000sqft	2.67	116,500.00	0
Place of Worship	130.00	1000sqft	2.98	130,000.00	0
Parking Lot	2,817.00	Space	25.35	1,126,800.00	0
High Turnover (Sit Down Restaurant)	11.20	1000sqft	0.26	11,200.00	0
Hotel	125.00	Room	4.17	181,500.00	0
Racquet Club	64.00	1000sqft	1.47	64,000.00	0
Regional Shopping Center	37.80	1000sqft	0.87	37,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2020
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MWhr)</b>	584.446	<b>CH4 Intensity (lb/MWhr)</b>	0.0214	<b>N2O Intensity (lb/MWhr)</b>	0.0044

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

Project Characteristics - intensity factors modified per RPS requirement by 2020

Land Use - utilized a "Racquet Club" use for the Topgolf use, but modified defaults with project-specific data where available

Construction Phase - based on information provided by the applicant

Grading - based on information provided by applicant

Architectural Coating - project required to comply with PCAPCD rules and regulations

Vehicle Trips - based on info from traffic consultant

Mobile Land Use Mitigation -

Area Mitigation - project required to comply with PCAPCD rules and regulations

Energy Mitigation - project would comply for 2013 Title 24 standards

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100

tblConstructionPhase	NumDays	55.00	395.00
tblConstructionPhase	NumDays	55.00	135.00
tblConstructionPhase	NumDays	55.00	200.00
tblConstructionPhase	NumDays	740.00	395.00
tblConstructionPhase	NumDays	740.00	135.00
tblConstructionPhase	NumDays	740.00	200.00
tblConstructionPhase	NumDays	75.00	10.00
tblConstructionPhase	NumDays	75.00	40.00
tblConstructionPhase	NumDays	75.00	10.00
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	55.00	10.00
tblConstructionPhase	NumDays	55.00	15.00
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	PhaseEndDate	10/15/2021	1/28/2022
tblConstructionPhase	PhaseEndDate	1/6/2017	7/15/2016
tblConstructionPhase	PhaseEndDate	8/24/2018	4/27/2018
tblConstructionPhase	PhaseEndDate	5/11/2018	9/7/2018
tblConstructionPhase	PhaseEndDate	7/29/2016	1/20/2017
tblConstructionPhase	PhaseStartDate	4/11/2020	7/27/2020
tblConstructionPhase	PhaseStartDate	7/2/2016	1/11/2016
tblConstructionPhase	PhaseStartDate	11/18/2017	7/24/2017
tblConstructionPhase	PhaseStartDate	4/28/2018	8/25/2018
tblConstructionPhase	PhaseStartDate	7/16/2016	1/7/2017
tblGrading	AcresOfGrading	25.00	10.00
tblGrading	AcresOfGrading	100.00	40.00
tblGrading	AcresOfGrading	25.00	10.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.0214
tblProjectCharacteristics	CO2IntensityFactor	793.8	584.446

tblProjectCharacteristics	N2OIntensityFactor	0.006	0.0044
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	ST_TR	2.37	2.45
tblVehicleTrips	ST_TR	158.37	113.45
tblVehicleTrips	ST_TR	8.19	28.98
tblVehicleTrips	ST_TR	0.00	0.01
tblVehicleTrips	ST_TR	10.37	13.39
tblVehicleTrips	ST_TR	20.87	42.70
tblVehicleTrips	ST_TR	49.97	36.63
tblVehicleTrips	SU_TR	0.98	1.05
tblVehicleTrips	SU_TR	131.84	101.95
tblVehicleTrips	SU_TR	5.95	26.01
tblVehicleTrips	SU_TR	0.00	0.01
tblVehicleTrips	SU_TR	36.63	49.95
tblVehicleTrips	SU_TR	26.73	44.09
tblVehicleTrips	SU_TR	25.24	16.40
tblVehicleTrips	WD_TR	11.01	9.48
tblVehicleTrips	WD_TR	127.15	111.07
tblVehicleTrips	WD_TR	8.17	33.55
tblVehicleTrips	WD_TR	0.00	0.09
tblVehicleTrips	WD_TR	9.11	8.00
tblVehicleTrips	WD_TR	32.93	37.25
tblVehicleTrips	WD_TR	42.94	37.94

## 2.0 Emissions Summary

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**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2015											0.0000	177.6583	177.6583	0.0458	0.0000	178.6209
2016											0.0000	936.5780	936.5780	0.0608	0.0000	937.8544
2017											0.0000	1,386.8669	1,386.8669	0.0995	0.0000	1,388.9566
2018											0.0000	477.5551	477.5551	0.0420	0.0000	478.4366
2019											0.0000	1,586.0607	1,586.0607	0.1011	0.0000	1,588.1848
2020											0.0000	492.2011	492.2011	0.0305	0.0000	492.8425
2021											0.0000	137.0355	137.0355	6.1700e-003	0.0000	137.1651
2022											0.0000	10.3789	10.3789	4.5000e-004	0.0000	10.3884
<b>Total</b>											<b>0.0000</b>	<b>5,204.3345</b>	<b>5,204.3345</b>	<b>0.3864</b>	<b>0.0000</b>	<b>5,212.4492</b>



**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	0.0590	0.0590	1.6000e-004	0.0000	0.0623
Energy											0.0000	2,352.6217	2,352.6217	0.0744	0.0250	2,361.9328
Mobile											0.0000	7,827.6657	7,827.6657	0.2579	0.0000	7,833.0822
Waste											295.4635	0.0000	295.4635	17.4614	0.0000	662.1527
Water											12.0331	76.3589	88.3920	1.2387	0.0298	123.6299
<b>Total</b>											<b>307.4966</b>	<b>10,256.7053</b>	<b>10,564.2019</b>	<b>19.0326</b>	<b>0.0548</b>	<b>10,980.8600</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	0.0590	0.0590	1.6000e-004	0.0000	0.0623
Energy											0.0000	2,094.7532	2,094.7532	0.0677	0.0214	2,102.7970
Mobile											0.0000	7,259.1370	7,259.1370	0.2411	0.0000	7,264.2008
Waste											295.4635	0.0000	295.4635	17.4614	0.0000	662.1527
Water											12.0331	76.3589	88.3920	1.2386	0.0297	123.6158
<b>Total</b>											<b>307.4966</b>	<b>9,430.3081</b>	<b>9,737.8047</b>	<b>19.0089</b>	<b>0.0511</b>	<b>10,152.8287</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	8.06	7.82	0.12	6.72	7.54

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/5/2015	10/16/2015	5	10	
2	Grading - Phase 1	Grading	10/17/2015	12/11/2015	5	40	
3	Paving - Phase 1	Paving	12/12/2015	12/25/2015	5	10	
4	Building Construction - Phase 1	Building Construction	12/26/2015	7/1/2016	5	135	
5	Architectural Coating - Phase 1	Architectural Coating	1/11/2016	7/15/2016	5	135	
6	Grading - Phase 2	Grading	1/7/2017	1/20/2017	5	10	
7	Paving - Phase 2	Paving	1/21/2017	2/10/2017	5	15	
8	Building Construction - Phase 2	Building Construction	2/11/2017	11/17/2017	5	200	
9	Arch Coating - Phase 2	Architectural Coating	7/24/2017	4/27/2018	5	200	
10	Grading - Phase 3	Grading	8/25/2018	9/7/2018	5	10	
11	Paving - Phase 3	Paving	9/8/2018	10/5/2018	5	20	
12	Building Construction - Phase 3	Building Construction	10/6/2018	4/10/2020	5	395	
13	Arch Coating - Phase 3	Architectural Coating	7/27/2020	1/28/2022	5	395	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 862,206; Non-Residential Outdoor: 287,402 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading - Phase 1	Excavators	2	8.00	162	0.38
Grading - Phase 1	Graders	1	8.00	174	0.41

Grading - Phase 1	Rubber Tired Dozers	1	8.00	255	0.40
Grading - Phase 1	Scrapers	2	8.00	361	0.48
Grading - Phase 1	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving - Phase 1	Pavers	2	8.00	125	0.42
Paving - Phase 1	Paving Equipment	2	8.00	130	0.36
Paving - Phase 1	Rollers	2	8.00	80	0.38
Building Construction - Phase 1	Cranes	1	7.00	226	0.29
Building Construction - Phase 1	Forklifts	3	8.00	89	0.20
Building Construction - Phase 1	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 1	Welders	1	8.00	46	0.45
Architectural Coating - Phase 1	Air Compressors	1	6.00	78	0.48
Grading - Phase 2	Excavators	2	8.00	162	0.38
Grading - Phase 2	Graders	1	8.00	174	0.41
Grading - Phase 2	Rubber Tired Dozers	1	8.00	255	0.40
Grading - Phase 2	Scrapers	2	8.00	361	0.48
Grading - Phase 2	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving - Phase 2	Pavers	2	8.00	125	0.42
Paving - Phase 2	Paving Equipment	2	8.00	130	0.36
Paving - Phase 2	Rollers	2	8.00	80	0.38
Building Construction - Phase 2	Cranes	1	7.00	226	0.29
Building Construction - Phase 2	Forklifts	3	8.00	89	0.20
Building Construction - Phase 2	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 2	Welders	1	8.00	46	0.45
Arch Coating - Phase 2	Air Compressors	1	6.00	78	0.48
Grading - Phase 3	Excavators	2	8.00	162	0.38
Grading - Phase 3	Graders	1	8.00	174	0.41

Grading - Phase 3	Rubber Tired Dozers	1	8.00	255	0.40
Grading - Phase 3	Scrapers	2	8.00	361	0.48
Grading - Phase 3	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving - Phase 3	Pavers	2	8.00	125	0.42
Paving - Phase 3	Paving Equipment	2	8.00	130	0.36
Paving - Phase 3	Rollers	2	8.00	80	0.38
Building Construction - Phase 3	Cranes	1	7.00	226	0.29
Building Construction - Phase 3	Forklifts	3	8.00	89	0.20
Building Construction - Phase 3	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 3	Welders	1	8.00	46	0.45
Arch Coating - Phase 3	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 1	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 1	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 1	9	685.00	273.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase 1	1	137.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 2	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 2	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 2	9	685.00	273.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Arch Coating - Phase 2	1	137.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 3	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 3	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 3	9	685.00	273.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Arch Coating - Phase 3	1	137.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

### 3.2 Site Preparation - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	18.6506	18.6506	5.5700e-003	0.0000	18.7675
<b>Total</b>											<b>0.0000</b>	<b>18.6506</b>	<b>18.6506</b>	<b>5.5700e-003</b>	<b>0.0000</b>	<b>18.7675</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.6454	0.6454	3.0000e-005	0.0000	0.6460
<b>Total</b>											<b>0.0000</b>	<b>0.6454</b>	<b>0.6454</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6460</b>

### 3.2 Site Preparation - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	18.6505	18.6505	5.5700e-003	0.0000	18.7675
<b>Total</b>											<b>0.0000</b>	<b>18.6505</b>	<b>18.6505</b>	<b>5.5700e-003</b>	<b>0.0000</b>	<b>18.7675</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.6454	0.6454	3.0000e-005	0.0000	0.6460
<b>Total</b>											<b>0.0000</b>	<b>0.6454</b>	<b>0.6454</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6460</b>

**3.3 Grading - Phase 1 - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	117.6844	117.6844	0.0351	0.0000	118.4222
<b>Total</b>											<b>0.0000</b>	<b>117.6844</b>	<b>117.6844</b>	<b>0.0351</b>	<b>0.0000</b>	<b>118.4222</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	2.8683	2.8683	1.3000e-004	0.0000	2.8711
<b>Total</b>											<b>0.0000</b>	<b>2.8683</b>	<b>2.8683</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.8711</b>

**3.3 Grading - Phase 1 - 2015**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	117.6843	117.6843	0.0351	0.0000	118.4221
<b>Total</b>											<b>0.0000</b>	<b>117.6843</b>	<b>117.6843</b>	<b>0.0351</b>	<b>0.0000</b>	<b>118.4221</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	2.8683	2.8683	1.3000e-004	0.0000	2.8711
<b>Total</b>											<b>0.0000</b>	<b>2.8683</b>	<b>2.8683</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.8711</b>

**3.4 Paving - Phase 1 - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	10.6136	10.6136	3.1700e-003	0.0000	10.6801
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>											<b>0.0000</b>	<b>10.6136</b>	<b>10.6136</b>	<b>3.1700e-003</b>	<b>0.0000</b>	<b>10.6801</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.5378	0.5378	2.0000e-005	0.0000	0.5383
<b>Total</b>											<b>0.0000</b>	<b>0.5378</b>	<b>0.5378</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.5383</b>

**3.4 Paving - Phase 1 - 2015**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	10.6136	10.6136	3.1700e-003	0.0000	10.6801
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>											<b>0.0000</b>	<b>10.6136</b>	<b>10.6136</b>	<b>3.1700e-003</b>	<b>0.0000</b>	<b>10.6801</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.5378	0.5378	2.0000e-005	0.0000	0.5383
<b>Total</b>											<b>0.0000</b>	<b>0.5378</b>	<b>0.5378</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.5383</b>

### 3.5 Building Construction - Phase 1 - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	4.8799	4.8799	1.2200e-003	0.0000	4.9056
<b>Total</b>											<b>0.0000</b>	<b>4.8799</b>	<b>4.8799</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>4.9056</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	11.9543	11.9543	1.0000e-004	0.0000	11.9565
Worker											0.0000	9.8240	9.8240	4.5000e-004	0.0000	9.8335
<b>Total</b>											<b>0.0000</b>	<b>21.7783</b>	<b>21.7783</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>21.7900</b>

### 3.5 Building Construction - Phase 1 - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	4.8799	4.8799	1.2200e-003	0.0000	4.9056
<b>Total</b>											<b>0.0000</b>	<b>4.8799</b>	<b>4.8799</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>4.9056</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	11.9543	11.9543	1.0000e-004	0.0000	11.9565
Worker											0.0000	9.8240	9.8240	4.5000e-004	0.0000	9.8335
<b>Total</b>											<b>0.0000</b>	<b>21.7783</b>	<b>21.7783</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>21.7900</b>

### 3.5 Building Construction - Phase 1 - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	158.6106	158.6106	0.0393	0.0000	159.4367
<b>Total</b>											<b>0.0000</b>	<b>158.6106</b>	<b>158.6106</b>	<b>0.0393</b>	<b>0.0000</b>	<b>159.4367</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	386.8908	386.8908	3.1100e-003	0.0000	386.9561
Worker											0.0000	309.9578	309.9578	0.0135	0.0000	310.2416
<b>Total</b>											<b>0.0000</b>	<b>696.8485</b>	<b>696.8485</b>	<b>0.0166</b>	<b>0.0000</b>	<b>697.1977</b>

### 3.5 Building Construction - Phase 1 - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	158.6104	158.6104	0.0393	0.0000	159.4365
<b>Total</b>											<b>0.0000</b>	<b>158.6104</b>	<b>158.6104</b>	<b>0.0393</b>	<b>0.0000</b>	<b>159.4365</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	386.8908	386.8908	3.1100e-003	0.0000	386.9561
Worker											0.0000	309.9578	309.9578	0.0135	0.0000	310.2416
<b>Total</b>											<b>0.0000</b>	<b>696.8485</b>	<b>696.8485</b>	<b>0.0166</b>	<b>0.0000</b>	<b>697.1977</b>

### 3.6 Architectural Coating - Phase 1 - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	17.2345	17.2345	2.0300e-003	0.0000	17.2771
<b>Total</b>											<b>0.0000</b>	<b>17.2345</b>	<b>17.2345</b>	<b>2.0300e-003</b>	<b>0.0000</b>	<b>17.2771</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	63.8844	63.8844	2.7900e-003	0.0000	63.9429
<b>Total</b>											<b>0.0000</b>	<b>63.8844</b>	<b>63.8844</b>	<b>2.7900e-003</b>	<b>0.0000</b>	<b>63.9429</b>

### 3.6 Architectural Coating - Phase 1 - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	17.2344	17.2344	2.0300e-003	0.0000	17.2771
<b>Total</b>											<b>0.0000</b>	<b>17.2344</b>	<b>17.2344</b>	<b>2.0300e-003</b>	<b>0.0000</b>	<b>17.2771</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	63.8844	63.8844	2.7900e-003	0.0000	63.9429
<b>Total</b>											<b>0.0000</b>	<b>63.8844</b>	<b>63.8844</b>	<b>2.7900e-003</b>	<b>0.0000</b>	<b>63.9429</b>

**3.7 Grading - Phase 2 - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	28.6370	28.6370	8.7700e-003	0.0000	28.8212
<b>Total</b>											<b>0.0000</b>	<b>28.6370</b>	<b>28.6370</b>	<b>8.7700e-003</b>	<b>0.0000</b>	<b>28.8212</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.6633	0.6633	3.0000e-005	0.0000	0.6639
<b>Total</b>											<b>0.0000</b>	<b>0.6633</b>	<b>0.6633</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6639</b>

**3.7 Grading - Phase 2 - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	28.6369	28.6369	8.7700e-003	0.0000	28.8212
<b>Total</b>											<b>0.0000</b>	<b>28.6369</b>	<b>28.6369</b>	<b>8.7700e-003</b>	<b>0.0000</b>	<b>28.8212</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.6633	0.6633	3.0000e-005	0.0000	0.6639
<b>Total</b>											<b>0.0000</b>	<b>0.6633</b>	<b>0.6633</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6639</b>

**3.8 Paving - Phase 2 - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	15.5201	15.5201	4.7600e-003	0.0000	15.6199
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>											<b>0.0000</b>	<b>15.5201</b>	<b>15.5201</b>	<b>4.7600e-003</b>	<b>0.0000</b>	<b>15.6199</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.7462	0.7462	3.0000e-005	0.0000	0.7469
<b>Total</b>											<b>0.0000</b>	<b>0.7462</b>	<b>0.7462</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.7469</b>

**3.8 Paving - Phase 2 - 2017****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	15.5200	15.5200	4.7600e-003	0.0000	15.6199
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>											<b>0.0000</b>	<b>15.5200</b>	<b>15.5200</b>	<b>4.7600e-003</b>	<b>0.0000</b>	<b>15.6199</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.7462	0.7462	3.0000e-005	0.0000	0.7469
<b>Total</b>											<b>0.0000</b>	<b>0.7462</b>	<b>0.7462</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.7469</b>

### 3.9 Building Construction - Phase 2 - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	239.4791	239.4791	0.0589	0.0000	240.7169
<b>Total</b>											<b>0.0000</b>	<b>239.4791</b>	<b>239.4791</b>	<b>0.0589</b>	<b>0.0000</b>	<b>240.7169</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	580.5173	580.5173	4.4100e-003	0.0000	580.6100
Worker											0.0000	454.3701	454.3701	0.0189	0.0000	454.7660
<b>Total</b>											<b>0.0000</b>	<b>1,034.8875</b>	<b>1,034.8875</b>	<b>0.0233</b>	<b>0.0000</b>	<b>1,035.3760</b>

### 3.9 Building Construction - Phase 2 - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	239.4788	239.4788	0.0589	0.0000	240.7166
<b>Total</b>											<b>0.0000</b>	<b>239.4788</b>	<b>239.4788</b>	<b>0.0589</b>	<b>0.0000</b>	<b>240.7166</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	580.5173	580.5173	4.4100e-003	0.0000	580.6100
Worker											0.0000	454.3701	454.3701	0.0189	0.0000	454.7660
<b>Total</b>											<b>0.0000</b>	<b>1,034.8875</b>	<b>1,034.8875</b>	<b>0.0233</b>	<b>0.0000</b>	<b>1,035.3760</b>

**3.10 Arch Coating - Phase 2 - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	14.6812	14.6812	1.5500e-003	0.0000	14.7138
<b>Total</b>											<b>0.0000</b>	<b>14.6812</b>	<b>14.6812</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>14.7138</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	52.2526	52.2526	2.1700e-003	0.0000	52.2981
<b>Total</b>											<b>0.0000</b>	<b>52.2526</b>	<b>52.2526</b>	<b>2.1700e-003</b>	<b>0.0000</b>	<b>52.2981</b>

**3.10 Arch Coating - Phase 2 - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	14.6812	14.6812	1.5500e-003	0.0000	14.7137
<b>Total</b>											<b>0.0000</b>	<b>14.6812</b>	<b>14.6812</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>14.7137</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	52.2526	52.2526	2.1700e-003	0.0000	52.2981
<b>Total</b>											<b>0.0000</b>	<b>52.2526</b>	<b>52.2526</b>	<b>2.1700e-003</b>	<b>0.0000</b>	<b>52.2981</b>

**3.10 Arch Coating - Phase 2 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	10.8514	10.8514	1.0300e-003	0.0000	10.8730
<b>Total</b>											<b>0.0000</b>	<b>10.8514</b>	<b>10.8514</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>10.8730</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	37.1546	37.1546	1.4800e-003	0.0000	37.1856
<b>Total</b>											<b>0.0000</b>	<b>37.1546</b>	<b>37.1546</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>37.1856</b>

**3.10 Arch Coating - Phase 2 - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	10.8513	10.8513	1.0300e-003	0.0000	10.8730
<b>Total</b>											<b>0.0000</b>	<b>10.8513</b>	<b>10.8513</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>10.8730</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	37.1546	37.1546	1.4800e-003	0.0000	37.1856
<b>Total</b>											<b>0.0000</b>	<b>37.1546</b>	<b>37.1546</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>37.1856</b>

**3.11 Grading - Phase 3 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	28.1808	28.1808	8.7700e-003	0.0000	28.3650
<b>Total</b>											<b>0.0000</b>	<b>28.1808</b>	<b>28.1808</b>	<b>8.7700e-003</b>	<b>0.0000</b>	<b>28.3650</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.6381	0.6381	3.0000e-005	0.0000	0.6387
<b>Total</b>											<b>0.0000</b>	<b>0.6381</b>	<b>0.6381</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6387</b>

**3.11 Grading - Phase 3 - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	28.1808	28.1808	8.7700e-003	0.0000	28.3650
<b>Total</b>											<b>0.0000</b>	<b>28.1808</b>	<b>28.1808</b>	<b>8.7700e-003</b>	<b>0.0000</b>	<b>28.3650</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.6381	0.6381	3.0000e-005	0.0000	0.6387
<b>Total</b>											<b>0.0000</b>	<b>0.6381</b>	<b>0.6381</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6387</b>

**3.12 Paving - Phase 3 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	20.3687	20.3687	6.3400e-003	0.0000	20.5019
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>											<b>0.0000</b>	<b>20.3687</b>	<b>20.3687</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>20.5019</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.9572	0.9572	4.0000e-005	0.0000	0.9580
<b>Total</b>											<b>0.0000</b>	<b>0.9572</b>	<b>0.9572</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.9580</b>

**3.12 Paving - Phase 3 - 2018**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	20.3687	20.3687	6.3400e-003	0.0000	20.5019
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>											<b>0.0000</b>	<b>20.3687</b>	<b>20.3687</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>20.5019</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.9572	0.9572	4.0000e-005	0.0000	0.9580
<b>Total</b>											<b>0.0000</b>	<b>0.9572</b>	<b>0.9572</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.9580</b>

### 3.13 Building Construction - Phase 3 - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	72.2148	72.2148	0.0177	0.0000	72.5859
<b>Total</b>											<b>0.0000</b>	<b>72.2148</b>	<b>72.2148</b>	<b>0.0177</b>	<b>0.0000</b>	<b>72.5859</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	173.8704	173.8704	1.3100e-003	0.0000	173.8979
Worker											0.0000	133.3193	133.3193	5.3100e-003	0.0000	133.4307
<b>Total</b>											<b>0.0000</b>	<b>307.1896</b>	<b>307.1896</b>	<b>6.6200e-003</b>	<b>0.0000</b>	<b>307.3286</b>

### 3.13 Building Construction - Phase 3 - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	72.2147	72.2147	0.0177	0.0000	72.5858
<b>Total</b>											<b>0.0000</b>	<b>72.2147</b>	<b>72.2147</b>	<b>0.0177</b>	<b>0.0000</b>	<b>72.5858</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	173.8704	173.8704	1.3100e-003	0.0000	173.8979
Worker											0.0000	133.3193	133.3193	5.3100e-003	0.0000	133.4307
<b>Total</b>											<b>0.0000</b>	<b>307.1896</b>	<b>307.1896</b>	<b>6.6200e-003</b>	<b>0.0000</b>	<b>307.3286</b>

**3.13 Building Construction - Phase 3 - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	305.5302	305.5302	0.0743	0.0000	307.0913
<b>Total</b>											<b>0.0000</b>	<b>305.5302</b>	<b>305.5302</b>	<b>0.0743</b>	<b>0.0000</b>	<b>307.0913</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	731.3336	731.3336	5.4400e-003	0.0000	731.4479
Worker											0.0000	549.1970	549.1970	0.0214	0.0000	549.6456
<b>Total</b>											<b>0.0000</b>	<b>1,280.5305</b>	<b>1,280.5305</b>	<b>0.0268</b>	<b>0.0000</b>	<b>1,281.0935</b>

**3.13 Building Construction - Phase 3 - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	305.5299	305.5299	0.0743	0.0000	307.0909
<b>Total</b>											<b>0.0000</b>	<b>305.5299</b>	<b>305.5299</b>	<b>0.0743</b>	<b>0.0000</b>	<b>307.0909</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	731.3336	731.3336	5.4400e-003	0.0000	731.4479
Worker											0.0000	549.1970	549.1970	0.0214	0.0000	549.6456
<b>Total</b>											<b>0.0000</b>	<b>1,280.5305</b>	<b>1,280.5305</b>	<b>0.0268</b>	<b>0.0000</b>	<b>1,281.0935</b>

**3.13 Building Construction - Phase 3 - 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					
Off-Road											0.0000	84.1872	84.1872	0.0205	0.0000	84.6179
<b>Total</b>											<b>0.0000</b>	<b>84.1872</b>	<b>84.1872</b>	<b>0.0205</b>	<b>0.0000</b>	<b>84.6179</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	199.8894	199.8894	1.4600e-003	0.0000	199.9202
Worker											0.0000	147.5019	147.5019	5.6700e-003	0.0000	147.6209
<b>Total</b>											<b>0.0000</b>	<b>347.3913</b>	<b>347.3913</b>	<b>7.1300e-003</b>	<b>0.0000</b>	<b>347.5411</b>

**3.13 Building Construction - Phase 3 - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	84.1871	84.1871	0.0205	0.0000	84.6178
<b>Total</b>											<b>0.0000</b>	<b>84.1871</b>	<b>84.1871</b>	<b>0.0205</b>	<b>0.0000</b>	<b>84.6178</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	199.8894	199.8894	1.4600e-003	0.0000	199.9202
Worker											0.0000	147.5019	147.5019	5.6700e-003	0.0000	147.6209
<b>Total</b>											<b>0.0000</b>	<b>347.3913</b>	<b>347.3913</b>	<b>7.1300e-003</b>	<b>0.0000</b>	<b>347.5411</b>

**3.14 Arch Coating - Phase 3 - 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					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	14.5536	14.5536	1.1300e-003	0.0000	14.5772
<b>Total</b>											<b>0.0000</b>	<b>14.5536</b>	<b>14.5536</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>14.5772</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	46.0691	46.0691	1.7700e-003	0.0000	46.1063
<b>Total</b>											<b>0.0000</b>	<b>46.0691</b>	<b>46.0691</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>46.1063</b>

**3.14 Arch Coating - Phase 3 - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	14.5535	14.5535	1.1300e-003	0.0000	14.5772
<b>Total</b>											<b>0.0000</b>	<b>14.5535</b>	<b>14.5535</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>14.5772</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	46.0691	46.0691	1.7700e-003	0.0000	46.1063
<b>Total</b>											<b>0.0000</b>	<b>46.0691</b>	<b>46.0691</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>46.1063</b>

**3.14 Arch Coating - Phase 3 - 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					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	33.3200	33.3200	2.2900e-003	0.0000	33.3680
<b>Total</b>											<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>33.3680</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	103.7155	103.7155	3.8800e-003	0.0000	103.7971
<b>Total</b>											<b>0.0000</b>	<b>103.7155</b>	<b>103.7155</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>103.7971</b>

**3.14 Arch Coating - Phase 3 - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	33.3199	33.3199	2.2900e-003	0.0000	33.3679
<b>Total</b>											<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>33.3679</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	103.7155	103.7155	3.8800e-003	0.0000	103.7971
<b>Total</b>											<b>0.0000</b>	<b>103.7155</b>	<b>103.7155</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>103.7971</b>

**3.14 Arch Coating - Phase 3 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5567
<b>Total</b>											<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.5567</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	7.8256	7.8256	2.9000e-004	0.0000	7.8316
<b>Total</b>											<b>0.0000</b>	<b>7.8256</b>	<b>7.8256</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>7.8316</b>

### 3.14 Arch Coating - Phase 3 - 2022

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5567
<b>Total</b>											<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.5567</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	7.8256	7.8256	2.9000e-004	0.0000	7.8316
<b>Total</b>											<b>0.0000</b>	<b>7.8256</b>	<b>7.8256</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>7.8316</b>

### 4.0 Operational Detail - Mobile

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### 4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	7,259.1370	7,259.1370	0.2411	0.0000	7,264.2008
Unmitigated											0.0000	7,827.6657	7,827.6657	0.2579	0.0000	7,833.0822

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	1,104.42	285.43	122.33	2,024,411	1,870,513
High Turnover (Sit Down Restaurant)	1,243.98	1,270.64	1141.84	1,430,838	1,322,064
Hotel	4,193.75	3,622.50	3251.25	7,556,975	6,982,485
Parking Lot	0.00	0.00	0.00		
Place of Worship	1,040.00	1,740.70	6493.50	3,590,169	3,317,240
Racquet Club	2,384.00	2,732.80	2821.76	4,246,228	3,923,425
Regional Shopping Center	1,434.13	1,384.61	619.92	2,298,130	2,123,424
<b>Total</b>	<b>11,400.29</b>	<b>11,036.68</b>	<b>14,450.60</b>	<b>21,146,751</b>	<b>19,539,151</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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00	64	25	11
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.463102	0.064860	0.187402	0.173152	0.059565	0.008320	0.013499	0.015223	0.001635	0.001280	0.007831	0.000608	0.003523

**5.0 Energy Detail**

**5.1 Fleet Mix**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated											0.0000	1,577.0604	1,577.0604	0.0578	0.0119	1,581.9537
Electricity Unmitigated											0.0000	1,678.3399	1,678.3399	0.0615	0.0126	1,683.5474
NaturalGas Mitigated											0.0000	517.6928	517.6928	9.9200e-003	9.4900e-003	520.8434
NaturalGas Unmitigated											0.0000	674.2819	674.2819	0.0129	0.0124	678.3854

### 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					
High Turnover (Sit Down Restaurant)	1.24925e+006											0.0000	66.6646	66.6646	1.2800e-003	1.2200e-003	67.0703
Hotel	5.10197e+006											0.0000	272.2603	272.2603	5.2200e-003	4.9900e-003	273.9172
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Place of Worship	2.5493e+006											0.0000	136.0404	136.0404	2.6100e-003	2.4900e-003	136.8683
Racquet Club	1.25504e+006											0.0000	66.9737	66.9737	1.2800e-003	1.2300e-003	67.3813
Regional Shopping Center	464562											0.0000	24.7908	24.7908	4.8000e-004	4.5000e-004	24.9417
General Office Building	2.01545e+006											0.0000	107.5521	107.5521	2.0600e-003	1.9700e-003	108.2066
<b>Total</b>												<b>0.0000</b>	<b>674.2819</b>	<b>674.2819</b>	<b>0.0129</b>	<b>0.0124</b>	<b>678.3854</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					
High Turnover (Sit Down Restaurant)	1.12966e+006											0.0000	60.2830	60.2830	1.1600e-003	1.1100e-003	60.6498
Hotel	3.83827e+006											0.0000	204.8248	204.8248	3.9300e-003	3.7600e-003	206.0713
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Place of Worship	1.91393e+006											0.0000	102.1343	102.1343	1.9600e-003	1.8700e-003	102.7559
Racquet Club	942240											0.0000	50.2815	50.2815	9.6000e-004	9.2000e-004	50.5875
Regional Shopping Center	351823											0.0000	18.7746	18.7746	3.6000e-004	3.4000e-004	18.8889
General Office Building	1.52528e+006											0.0000	81.3946	81.3946	1.5600e-003	1.4900e-003	81.8899
<b>Total</b>												<b>0.0000</b>	<b>517.6928</b>	<b>517.6928</b>	<b>9.9300e-003</b>	<b>9.4900e-003</b>	<b>520.8434</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.30131e+006	344.9763	0.0126	2.6000e-003	346.0467
High Turnover (Sit Down Restaurant)	376432	99.7922	3.6500e-003	7.5000e-004	100.1019
Hotel	1.36488e+006	361.8300	0.0133	2.7200e-003	362.9527
Parking Lot	991584	262.8692	9.6300e-003	1.9800e-003	263.6848
Place of Worship	1.1999e+006	318.0938	0.0117	2.3900e-003	319.0808
Racquet Club	590720	156.6000	5.7300e-003	1.1800e-003	157.0859
Regional Shopping Center	506142	134.1784	4.9100e-003	1.0100e-003	134.5947
<b>Total</b>		<b>1,678.3399</b>	<b>0.0615</b>	<b>0.0126</b>	<b>1,683.5474</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.18684e+006	314.6326	0.0115	2.3700e-003	315.6088
High Turnover (Sit Down Restaurant)	355712	94.2993	3.4500e-003	7.1000e-004	94.5919
Hotel	1.26097e+006	334.2838	0.0122	2.5200e-003	335.3210
Parking Lot	991584	262.8692	9.6300e-003	1.9800e-003	263.6848
Place of Worship	1.13425e+006	300.6900	0.0110	2.2600e-003	301.6229
Racquet Club	558400	148.0320	5.4200e-003	1.1100e-003	148.4913
Regional Shopping Center	461160	122.2536	4.4800e-003	9.2000e-004	122.6330
<b>Total</b>		<b>1,577.0604</b>	<b>0.0578</b>	<b>0.0119</b>	<b>1,581.9537</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	0.0590	0.0590	1.6000e-004	0.0000	0.0623
Unmitigated											0.0000	0.0590	0.0590	1.6000e-004	0.0000	0.0623

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	0.0590	0.0590	1.6000e-004	0.0000	0.0623
<b>Total</b>											<b>0.0000</b>	<b>0.0590</b>	<b>0.0590</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0623</b>

## 6.2 Area by SubCategory

### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	0.0590	0.0590	1.6000e-004	0.0000	0.0623
<b>Total</b>											<b>0.0000</b>	<b>0.0590</b>	<b>0.0590</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0623</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	88.3920	1.2386	0.0297	123.6158
Unmitigated	88.3920	1.2387	0.0298	123.6299

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	20.706 / 12.6908	48.0460	0.6762	0.0162	67.2822
High Turnover (Sit Down Restaurant)	3.39958 / 0.216994	6.1564	0.1110	2.6500e-003	9.3093
Hotel	3.17085 / 0.352316	5.8813	0.1035	2.4800e-003	8.8225
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Place of Worship	4.06756 / 6.36208	13.0283	0.1330	3.2200e-003	16.8182
Racquet Club	3.78516 / 2.31994	8.7831	0.1236	2.9700e-003	12.2995
Regional Shopping Center	2.79994 / 1.71609	6.4970	0.0914	2.2000e-003	9.0982
<b>Total</b>		<b>88.3921</b>	<b>1.2387</b>	<b>0.0298</b>	<b>123.6299</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	20.706 / 12.6908	48.0460	0.6761	0.0162	67.2745
High Turnover (Sit Down Restaurant)	3.39958 / 0.216994	6.1564	0.1110	2.6500e-003	9.3080
Hotel	3.17085 / 0.352316	5.8813	0.1035	2.4700e-003	8.8213
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Place of Worship	4.06756 / 6.36208	13.0283	0.1330	3.2100e-003	16.8167
Racquet Club	3.78516 / 2.31994	8.7831	0.1236	2.9700e-003	12.2981
Regional Shopping Center	2.79994 / 1.71609	6.4970	0.0914	2.1900e-003	9.0971
<b>Total</b>		<b>88.3921</b>	<b>1.2386</b>	<b>0.0297</b>	<b>123.6158</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	295.4635	17.4614	0.0000	662.1527
Unmitigated	295.4635	17.4614	0.0000	662.1527

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	108.34	21.9920	1.2997	0.0000	49.2856
High Turnover (Sit Down Restaurant)	133.28	27.0546	1.5989	0.0000	60.6312
Hotel	68.44	13.8927	0.8210	0.0000	31.1344
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Place of Worship	741	150.4163	8.8894	0.0000	337.0926
Racquet Club	364.8	74.0511	4.3763	0.0000	165.9533
Regional Shopping Center	39.69	8.0567	0.4761	0.0000	18.0556
<b>Total</b>		<b>295.4635</b>	<b>17.4614</b>	<b>0.0000</b>	<b>662.1527</b>

### 8.2 Waste by Land Use

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	108.34	21.9920	1.2997	0.0000	49.2856
High Turnover (Sit Down Restaurant)	133.28	27.0546	1.5989	0.0000	60.6312
Hotel	68.44	13.8927	0.8210	0.0000	31.1344
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Place of Worship	741	150.4163	8.8894	0.0000	337.0926
Racquet Club	364.8	74.0511	4.3763	0.0000	165.9533
Regional Shopping Center	39.69	8.0567	0.4761	0.0000	18.0556
<b>Total</b>		<b>295.4635</b>	<b>17.4614</b>	<b>0.0000</b>	<b>662.1527</b>

### 9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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### 10.0 Vegetation

**Parcel 49 - GHG - YEAR 2020 (Unmitigated)**  
**Placer-Sacramento County, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Arch Coating - Phase 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coating - Phase 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating - Phase 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	3	No Change	0.00
Cranes	Diesel	No Change	0	3	No Change	0.00
Excavators	Diesel	No Change	0	6	No Change	0.00
Forklifts	Diesel	No Change	0	9	No Change	0.00
Generator Sets	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	3	No Change	0.00
Pavers	Diesel	No Change	0	6	No Change	0.00
Paving Equipment	Diesel	No Change	0	6	No Change	0.00
Rollers	Diesel	No Change	0	6	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Scrapers	Diesel	No Change	0	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	19	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors							0.00000E+000	9.31938E+001	9.31938E+001	8.19000E-003	0.00000E+000	9.33658E+001
Cranes							0.00000E+000	1.64723E+002	1.64723E+002	5.12300E-002	0.00000E+000	1.65799E+002
Excavators							0.00000E+000	2.99028E+001	2.99028E+001	9.03000E-003	0.00000E+000	3.00924E+001
Forklifts							0.00000E+000	1.52906E+002	1.52906E+002	4.75600E-002	0.00000E+000	1.53905E+002
Generator Sets							0.00000E+000	2.06301E+002	2.06301E+002	1.51600E-002	0.00000E+000	2.06619E+002
Graders							0.00000E+000	1.76524E+001	1.76524E+001	5.33000E-003	0.00000E+000	1.77643E+001
Pavers							0.00000E+000	1.88390E+001	1.88390E+001	5.78000E-003	0.00000E+000	1.89604E+001
Paving Equipment							0.00000E+000	1.67284E+001	1.67284E+001	5.13000E-003	0.00000E+000	1.68361E+001
Rollers							0.00000E+000	1.09350E+001	1.09350E+001	3.35000E-003	0.00000E+000	1.10055E+001
Rubber Tired Dozers							0.00000E+000	3.78466E+001	3.78466E+001	1.13800E-002	0.00000E+000	3.80857E+001
Scrapers							0.00000E+000	8.42007E+001	8.42007E+001	2.54200E-002	0.00000E+000	8.47346E+001
Tractors/Loaders/Backhoes							0.00000E+000	2.95821E+002	2.95821E+002	9.17700E-002	0.00000E+000	2.97748E+002
Welders							0.00000E+000	6.87005E+001	6.87005E+001	1.33900E-002	0.00000E+000	6.89818E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors							0.00000E+000	9.31937E+001	9.31937E+001	8.19000E-003	0.00000E+000	9.33657E+001
Cranes							0.00000E+000	1.64723E+002	1.64723E+002	5.12300E-002	0.00000E+000	1.65799E+002
Excavators							0.00000E+000	2.99028E+001	2.99028E+001	9.03000E-003	0.00000E+000	3.00924E+001
Forklifts							0.00000E+000	1.52906E+002	1.52906E+002	4.75600E-002	0.00000E+000	1.53905E+002
Generator Sets							0.00000E+000	2.06300E+002	2.06300E+002	1.51600E-002	0.00000E+000	2.06619E+002
Graders							0.00000E+000	1.76523E+001	1.76523E+001	5.33000E-003	0.00000E+000	1.77642E+001
Pavers							0.00000E+000	1.88390E+001	1.88390E+001	5.78000E-003	0.00000E+000	1.89604E+001
Paving Equipment							0.00000E+000	1.67283E+001	1.67283E+001	5.13000E-003	0.00000E+000	1.68361E+001
Rollers							0.00000E+000	1.09350E+001	1.09350E+001	3.35000E-003	0.00000E+000	1.10055E+001
Rubber Tired Dozers							0.00000E+000	3.78466E+001	3.78466E+001	1.13800E-002	0.00000E+000	3.80856E+001
Scrapers							0.00000E+000	8.42006E+001	8.42006E+001	2.54200E-002	0.00000E+000	8.47345E+001
Tractors/Loaders/Backhoes							0.00000E+000	2.95821E+002	2.95821E+002	9.17700E-002	0.00000E+000	2.97748E+002
Welders							0.00000E+000	6.87005E+001	6.87005E+001	1.33900E-002	0.00000E+000	6.89817E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18034E-006	1.18034E-006	0.00000E+000	0.00000E+000	1.28527E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15345E-006	1.15345E-006	0.00000E+000	0.00000E+000	1.14597E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.33767E-006	1.33767E-006	0.00000E+000	0.00000E+000	9.96930E-007
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17719E-006	1.17719E-006	0.00000E+000	0.00000E+000	1.23453E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16335E-006	1.16335E-006	0.00000E+000	0.00000E+000	1.20996E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.13299E-006	1.13299E-006	0.00000E+000	0.00000E+000	1.12586E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06163E-006	1.06163E-006	0.00000E+000	0.00000E+000	1.05483E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19558E-006	1.19558E-006	0.00000E+000	0.00000E+000	1.18792E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.14491E-007	9.14491E-007	0.00000E+000	0.00000E+000	9.08638E-007
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.32112E-006	1.32112E-006	0.00000E+000	0.00000E+000	1.05026E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18764E-006	1.18764E-006	0.00000E+000	0.00000E+000	1.18016E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18315E-006	1.18315E-006	0.00000E+000	0.00000E+000	1.17549E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16447E-006	1.16447E-006	0.00000E+000	0.00000E+000	1.15973E-006

**Fugitive Dust Mitigation**

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

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

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

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Arch Coating - Phase 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coating - Phase 2	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coating - Phase 3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coating - Phase 3	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating - Phase 1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating - Phase 1	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 1	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 2	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 3	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 1	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 2	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 3	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00

Paving - Phase 1	Roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 2	Roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 3	Roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.03	6.03	6.02	6.02	6.03
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.26	7.26	6.51	0.00	7.26
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.22	23.22	23.20	23.16	23.22
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.17	0.01
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.19	0.47		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
Yes	Land Use	Increase Transit Accessibility	0.06	1.22		
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.06			
Yes	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off-Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.01			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.02			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.08			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				

No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.08		

### Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
Yes	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	100.00
Yes	Use Low VOC Paint (Residential Exterior)	100.00
Yes	Use Low VOC Paint (Non-residential Interior)	100.00
Yes	Use Low VOC Paint (Non-residential Exterior)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

### Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	25.00	
No	Install High Efficiency Lighting		
No	On-site Renewable		

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

### Water Mitigation Measures

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

**Solid Waste Mitigation**

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

**Parcel 49 - GHG - BAU**  
**Placer-Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	116.50	1000sqft	2.67	116,500.00	0
Place of Worship	130.00	1000sqft	2.98	130,000.00	0
Parking Lot	2,817.00	Space	25.35	1,126,800.00	0
High Turnover (Sit Down Restaurant)	11.20	1000sqft	0.26	11,200.00	0
Hotel	125.00	Room	4.17	181,500.00	0
Racquet Club	64.00	1000sqft	1.47	64,000.00	0
Regional Shopping Center	37.80	1000sqft	0.87	37,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2020
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	724.01538	<b>CH4 Intensity (lb/MW hr)</b>	0.0264505	<b>N2O Intensity (lb/MW hr)</b>	0.00547252

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

Project Characteristics - intensity factors modified per Roseville Electric's RPS in 2010.

Land Use - utilized a "Racquet Club" use for the Topgolf use, but modified defaults with project-specific data where available

Construction Phase - based on information provided by the applicant

Grading - based on information provided by applicant

Architectural Coating - project required to comply with PCAPCD rules and regulations

Vehicle Trips - based on info from traffic consultant

Mobile Land Use Mitigation -

Area Mitigation - project required to comply with PCAPCD rules and regulations

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	100

tblConstructionPhase	NumDays	55.00	395.00
tblConstructionPhase	NumDays	55.00	135.00
tblConstructionPhase	NumDays	55.00	200.00
tblConstructionPhase	NumDays	740.00	395.00
tblConstructionPhase	NumDays	740.00	135.00
tblConstructionPhase	NumDays	740.00	200.00
tblConstructionPhase	NumDays	75.00	10.00
tblConstructionPhase	NumDays	75.00	40.00
tblConstructionPhase	NumDays	75.00	10.00
tblConstructionPhase	NumDays	55.00	20.00
tblConstructionPhase	NumDays	55.00	10.00
tblConstructionPhase	NumDays	55.00	15.00
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	PhaseEndDate	10/15/2021	1/28/2022
tblConstructionPhase	PhaseEndDate	1/6/2017	7/15/2016
tblConstructionPhase	PhaseEndDate	8/24/2018	4/27/2018
tblConstructionPhase	PhaseEndDate	5/11/2018	9/7/2018
tblConstructionPhase	PhaseEndDate	7/29/2016	1/20/2017
tblConstructionPhase	PhaseStartDate	4/11/2020	7/27/2020
tblConstructionPhase	PhaseStartDate	7/2/2016	1/11/2016
tblConstructionPhase	PhaseStartDate	11/18/2017	7/24/2017
tblConstructionPhase	PhaseStartDate	4/28/2018	8/25/2018
tblConstructionPhase	PhaseStartDate	7/16/2016	1/7/2017
tblGrading	AcresOfGrading	25.00	10.00
tblGrading	AcresOfGrading	100.00	40.00
tblGrading	AcresOfGrading	25.00	10.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.0264505
tblProjectCharacteristics	CO2IntensityFactor	793.8	724.01538

tblProjectCharacteristics	N2OIntensityFactor	0.006	0.00547252
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	9.6230e-003	9.8130e-003
tblVehicleEF	HHD	3.21	3.17
tblVehicleEF	HHD	1.32	1.22
tblVehicleEF	HHD	56.34	70.15
tblVehicleEF	HHD	527.75	586.72
tblVehicleEF	HHD	1,538.41	1,721.73
tblVehicleEF	HHD	51.60	58.54
tblVehicleEF	HHD	0.02	0.04
tblVehicleEF	HHD	3.91	3.95
tblVehicleEF	HHD	3.31	3.54
tblVehicleEF	HHD	3.80	4.66
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.8080e-003	2.2190e-003
tblVehicleEF	HHD	0.01	9.9560e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7580e-003	8.7570e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.5450e-003	1.8630e-003
tblVehicleEF	HHD	2.4100e-003	2.1920e-003
tblVehicleEF	HHD	0.11	0.12
tblVehicleEF	HHD	0.57	0.57
tblVehicleEF	HHD	1.0840e-003	1.0080e-003

tblVehicleEF	HHD	0.22	0.22
tblVehicleEF	HHD	0.67	0.76
tblVehicleEF	HHD	1.82	2.73
tblVehicleEF	HHD	5.5940e-003	5.5980e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.5140e-003	1.7720e-003
tblVehicleEF	HHD	2.4100e-003	2.1920e-003
tblVehicleEF	HHD	0.11	0.12
tblVehicleEF	HHD	0.65	0.64
tblVehicleEF	HHD	1.0840e-003	1.0080e-003
tblVehicleEF	HHD	0.25	0.25
tblVehicleEF	HHD	0.67	0.76
tblVehicleEF	HHD	1.94	2.92
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	9.6230e-003	9.8130e-003
tblVehicleEF	HHD	2.33	2.31
tblVehicleEF	HHD	1.33	1.23
tblVehicleEF	HHD	40.91	48.72
tblVehicleEF	HHD	559.11	621.58
tblVehicleEF	HHD	1,538.41	1,721.73
tblVehicleEF	HHD	51.60	58.54
tblVehicleEF	HHD	0.02	0.04
tblVehicleEF	HHD	4.04	4.07
tblVehicleEF	HHD	3.10	3.35
tblVehicleEF	HHD	3.56	4.31
tblVehicleEF	HHD	0.01	9.1230e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04

tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.8080e-003	2.2190e-003
tblVehicleEF	HHD	9.2580e-003	8.3930e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7580e-003	8.7570e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.5450e-003	1.8630e-003
tblVehicleEF	HHD	7.0330e-003	6.2560e-003
tblVehicleEF	HHD	0.14	0.15
tblVehicleEF	HHD	0.54	0.53
tblVehicleEF	HHD	3.2100e-003	2.9750e-003
tblVehicleEF	HHD	0.22	0.22
tblVehicleEF	HHD	0.68	0.76
tblVehicleEF	HHD	1.49	2.10
tblVehicleEF	HHD	5.9270e-003	5.9300e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.2610e-003	1.4150e-003
tblVehicleEF	HHD	7.0330e-003	6.2560e-003
tblVehicleEF	HHD	0.14	0.15
tblVehicleEF	HHD	0.62	0.61
tblVehicleEF	HHD	3.2100e-003	2.9750e-003
tblVehicleEF	HHD	0.25	0.25
tblVehicleEF	HHD	0.68	0.76
tblVehicleEF	HHD	1.60	2.25
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	9.6230e-003	9.8130e-003
tblVehicleEF	HHD	4.42	4.37
tblVehicleEF	HHD	1.31	1.22

tblVehicleEF	HHD	75.90	90.53
tblVehicleEF	HHD	484.45	538.59
tblVehicleEF	HHD	1,538.41	1,721.73
tblVehicleEF	HHD	51.60	58.54
tblVehicleEF	HHD	0.02	0.04
tblVehicleEF	HHD	3.74	3.77
tblVehicleEF	HHD	3.38	3.59
tblVehicleEF	HHD	4.08	4.96
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.8080e-003	2.2190e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.7580e-003	8.7570e-003
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.5450e-003	1.8630e-003
tblVehicleEF	HHD	5.3700e-004	4.5800e-004
tblVehicleEF	HHD	0.12	0.14
tblVehicleEF	HHD	0.62	0.61
tblVehicleEF	HHD	3.0000e-004	2.6400e-004
tblVehicleEF	HHD	0.21	0.22
tblVehicleEF	HHD	0.73	0.84
tblVehicleEF	HHD	2.22	3.27
tblVehicleEF	HHD	5.1350e-003	5.1380e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.8330e-003	2.1080e-003

tblVehicleEF	HHD	5.3700e-004	4.5800e-004
tblVehicleEF	HHD	0.12	0.14
tblVehicleEF	HHD	0.71	0.70
tblVehicleEF	HHD	3.0000e-004	2.6400e-004
tblVehicleEF	HHD	0.25	0.25
tblVehicleEF	HHD	0.73	0.84
tblVehicleEF	HHD	2.37	3.50
tblVehicleEF	LDA	7.6510e-003	8.1240e-003
tblVehicleEF	LDA	4.7700e-003	5.0780e-003
tblVehicleEF	LDA	0.65	0.70
tblVehicleEF	LDA	1.27	1.37
tblVehicleEF	LDA	225.95	331.89
tblVehicleEF	LDA	51.66	73.41
tblVehicleEF	LDA	0.46	0.44
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	1.5780e-003	1.6110e-003
tblVehicleEF	LDA	3.3510e-003	3.3770e-003
tblVehicleEF	LDA	1.4630e-003	1.4930e-003
tblVehicleEF	LDA	3.1090e-003	3.1320e-003
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.21	0.21
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	3.3210e-003	3.3240e-003
tblVehicleEF	LDA	7.5500e-004	7.5700e-004

tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.21	0.21
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	7.6510e-003	8.1240e-003
tblVehicleEF	LDA	4.7700e-003	5.0780e-003
tblVehicleEF	LDA	0.84	0.88
tblVehicleEF	LDA	0.92	0.98
tblVehicleEF	LDA	252.35	368.73
tblVehicleEF	LDA	51.66	73.41
tblVehicleEF	LDA	0.46	0.44
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	1.5780e-003	1.6110e-003
tblVehicleEF	LDA	3.3510e-003	3.3770e-003
tblVehicleEF	LDA	1.4630e-003	1.4930e-003
tblVehicleEF	LDA	3.1090e-003	3.1320e-003
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.20	0.20
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	3.7140e-003	3.6940e-003
tblVehicleEF	LDA	7.4900e-004	7.5000e-004
tblVehicleEF	LDA	0.09	0.09

tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.06	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.20	0.20
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	7.6510e-003	8.1240e-003
tblVehicleEF	LDA	4.7700e-003	5.0780e-003
tblVehicleEF	LDA	0.61	0.66
tblVehicleEF	LDA	1.69	1.80
tblVehicleEF	LDA	218.88	322.14
tblVehicleEF	LDA	51.66	73.41
tblVehicleEF	LDA	0.46	0.44
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.08	0.09
tblVehicleEF	LDA	1.5780e-003	1.6110e-003
tblVehicleEF	LDA	3.3510e-003	3.3770e-003
tblVehicleEF	LDA	1.4630e-003	1.4930e-003
tblVehicleEF	LDA	3.1090e-003	3.1320e-003
tblVehicleEF	LDA	8.3550e-003	8.0630e-003
tblVehicleEF	LDA	0.08	0.08
tblVehicleEF	LDA	6.2330e-003	6.0090e-003
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.24	0.24
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	3.2160e-003	3.2260e-003
tblVehicleEF	LDA	7.6300e-004	7.6500e-004
tblVehicleEF	LDA	8.3550e-003	8.0630e-003
tblVehicleEF	LDA	0.08	0.08

tblVehicleEF	LDA	6.2330e-003	6.0090e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.24	0.24
tblVehicleEF	LDA	0.11	0.12
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	1.30	1.42
tblVehicleEF	LDT1	3.10	3.39
tblVehicleEF	LDT1	271.71	385.39
tblVehicleEF	LDT1	62.47	85.01
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.13	0.15
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	2.3560e-003	2.4300e-003
tblVehicleEF	LDT1	4.2650e-003	4.3330e-003
tblVehicleEF	LDT1	2.1840e-003	2.2530e-003
tblVehicleEF	LDT1	3.9560e-003	4.0180e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.23	0.23
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.82	0.82
tblVehicleEF	LDT1	0.23	0.24
tblVehicleEF	LDT1	3.8650e-003	3.8700e-003
tblVehicleEF	LDT1	9.0400e-004	9.1000e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.23	0.23
tblVehicleEF	LDT1	0.07	0.07

tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.82	0.82
tblVehicleEF	LDT1	0.24	0.26
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	1.64	1.73
tblVehicleEF	LDT1	2.28	2.46
tblVehicleEF	LDT1	301.97	425.03
tblVehicleEF	LDT1	62.47	85.01
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	2.3560e-003	2.4300e-003
tblVehicleEF	LDT1	4.2650e-003	4.3330e-003
tblVehicleEF	LDT1	2.1840e-003	2.2530e-003
tblVehicleEF	LDT1	3.9560e-003	4.0180e-003
tblVehicleEF	LDT1	0.34	0.32
tblVehicleEF	LDT1	0.31	0.30
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.81	0.80
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	4.3030e-003	4.2710e-003
tblVehicleEF	LDT1	8.9000e-004	8.9300e-004
tblVehicleEF	LDT1	0.34	0.32
tblVehicleEF	LDT1	0.31	0.30
tblVehicleEF	LDT1	0.21	0.20
tblVehicleEF	LDT1	0.05	0.05

tblVehicleEF	LDT1	0.81	0.80
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	1.24	1.37
tblVehicleEF	LDT1	4.13	4.44
tblVehicleEF	LDT1	263.60	374.90
tblVehicleEF	LDT1	62.47	85.01
tblVehicleEF	LDT1	0.06	0.06
tblVehicleEF	LDT1	0.15	0.16
tblVehicleEF	LDT1	0.19	0.20
tblVehicleEF	LDT1	2.3560e-003	2.4300e-003
tblVehicleEF	LDT1	4.2650e-003	4.3330e-003
tblVehicleEF	LDT1	2.1840e-003	2.2530e-003
tblVehicleEF	LDT1	3.9560e-003	4.0180e-003
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	0.23
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.99	0.99
tblVehicleEF	LDT1	0.29	0.30
tblVehicleEF	LDT1	3.7480e-003	3.7650e-003
tblVehicleEF	LDT1	9.2200e-004	9.2800e-004
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	0.23
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.99	0.99

tblVehicleEF	LDT1	0.31	0.32
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	7.2140e-003	8.0300e-003
tblVehicleEF	LDT2	0.86	0.97
tblVehicleEF	LDT2	1.89	2.15
tblVehicleEF	LDT2	336.60	453.01
tblVehicleEF	LDT2	76.73	100.59
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.15	0.17
tblVehicleEF	LDT2	1.5740e-003	1.6320e-003
tblVehicleEF	LDT2	3.3730e-003	3.4110e-003
tblVehicleEF	LDT2	1.4600e-003	1.5140e-003
tblVehicleEF	LDT2	3.1290e-003	3.1640e-003
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.38	0.39
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	4.5330e-003	4.5380e-003
tblVehicleEF	LDT2	1.0380e-003	1.0420e-003
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.38	0.39
tblVehicleEF	LDT2	0.14	0.15

tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	7.2140e-003	8.0300e-003
tblVehicleEF	LDT2	1.11	1.20
tblVehicleEF	LDT2	1.39	1.53
tblVehicleEF	LDT2	374.98	500.21
tblVehicleEF	LDT2	76.73	100.59
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.14	0.15
tblVehicleEF	LDT2	1.5740e-003	1.6320e-003
tblVehicleEF	LDT2	3.3730e-003	3.4110e-003
tblVehicleEF	LDT2	1.4600e-003	1.5140e-003
tblVehicleEF	LDT2	3.1290e-003	3.1640e-003
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.38	0.38
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	5.0550e-003	5.0130e-003
tblVehicleEF	LDT2	1.0290e-003	1.0320e-003
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.15	0.15
tblVehicleEF	LDT2	0.11	0.11
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.38	0.38
tblVehicleEF	LDT2	0.11	0.12
tblVehicleEF	LDT2	0.01	0.01

tblVehicleEF	LDT2	7.2140e-003	8.0300e-003
tblVehicleEF	LDT2	0.81	0.93
tblVehicleEF	LDT2	2.52	2.82
tblVehicleEF	LDT2	326.32	440.60
tblVehicleEF	LDT2	76.73	100.59
tblVehicleEF	LDT2	0.19	0.19
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LDT2	1.5740e-003	1.6320e-003
tblVehicleEF	LDT2	3.3730e-003	3.4110e-003
tblVehicleEF	LDT2	1.4600e-003	1.5140e-003
tblVehicleEF	LDT2	3.1290e-003	3.1640e-003
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.45	0.46
tblVehicleEF	LDT2	0.16	0.18
tblVehicleEF	LDT2	4.3940e-003	4.4130e-003
tblVehicleEF	LDT2	1.0490e-003	1.0540e-003
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.12	0.12
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.45	0.46
tblVehicleEF	LDT2	0.17	0.19
tblVehicleEF	LHD1	1.0510e-003	1.0400e-003
tblVehicleEF	LHD1	0.01	0.02

tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.16	0.15
tblVehicleEF	LHD1	1.03	1.42
tblVehicleEF	LHD1	3.01	3.44
tblVehicleEF	LHD1	8.33	9.29
tblVehicleEF	LHD1	686.43	751.51
tblVehicleEF	LHD1	30.86	33.65
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.30	1.52
tblVehicleEF	LHD1	0.85	0.89
tblVehicleEF	LHD1	9.2400e-004	9.4800e-004
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	9.8420e-003	9.9430e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	5.7800e-004	6.2500e-004
tblVehicleEF	LHD1	8.5000e-004	8.7200e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.4600e-003	2.4860e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	5.3500e-004	5.7900e-004
tblVehicleEF	LHD1	1.9910e-003	1.8690e-003
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	8.3400e-004	7.9000e-004
tblVehicleEF	LHD1	0.11	0.16
tblVehicleEF	LHD1	0.40	0.41
tblVehicleEF	LHD1	0.24	0.27

tblVehicleEF	LHD1	7.5200e-003	7.4080e-003
tblVehicleEF	LHD1	3.9700e-004	3.9800e-004
tblVehicleEF	LHD1	1.9910e-003	1.8690e-003
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	8.3400e-004	7.9000e-004
tblVehicleEF	LHD1	0.13	0.19
tblVehicleEF	LHD1	0.40	0.41
tblVehicleEF	LHD1	0.25	0.29
tblVehicleEF	LHD1	1.0510e-003	1.0400e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.16	0.15
tblVehicleEF	LHD1	1.05	1.46
tblVehicleEF	LHD1	2.10	2.30
tblVehicleEF	LHD1	8.33	9.29
tblVehicleEF	LHD1	686.43	751.51
tblVehicleEF	LHD1	30.86	33.65
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.21	1.42
tblVehicleEF	LHD1	0.80	0.83
tblVehicleEF	LHD1	9.2400e-004	9.4800e-004
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	9.8420e-003	9.9430e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	5.7800e-004	6.2500e-004
tblVehicleEF	LHD1	8.5000e-004	8.7200e-004

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.4600e-003	2.4860e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	5.3500e-004	5.7900e-004
tblVehicleEF	LHD1	5.4840e-003	5.1200e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.2870e-003	2.1730e-003
tblVehicleEF	LHD1	0.11	0.16
tblVehicleEF	LHD1	0.40	0.41
tblVehicleEF	LHD1	0.19	0.21
tblVehicleEF	LHD1	7.5200e-003	7.4080e-003
tblVehicleEF	LHD1	3.8100e-004	3.7900e-004
tblVehicleEF	LHD1	5.4840e-003	5.1200e-003
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.2870e-003	2.1730e-003
tblVehicleEF	LHD1	0.13	0.19
tblVehicleEF	LHD1	0.40	0.41
tblVehicleEF	LHD1	0.21	0.23
tblVehicleEF	LHD1	1.0510e-003	1.0400e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.16	0.15
tblVehicleEF	LHD1	1.01	1.40
tblVehicleEF	LHD1	4.12	4.60
tblVehicleEF	LHD1	8.33	9.29
tblVehicleEF	LHD1	686.43	751.51

tblVehicleEF	LHD1	30.86	33.65
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	0.09	0.09
tblVehicleEF	LHD1	1.34	1.55
tblVehicleEF	LHD1	0.91	0.95
tblVehicleEF	LHD1	9.2400e-004	9.4800e-004
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	9.8420e-003	9.9430e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	5.7800e-004	6.2500e-004
tblVehicleEF	LHD1	8.5000e-004	8.7200e-004
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.4600e-003	2.4860e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	5.3500e-004	5.7900e-004
tblVehicleEF	LHD1	4.9500e-004	4.5000e-004
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.6900e-004	2.4700e-004
tblVehicleEF	LHD1	0.11	0.16
tblVehicleEF	LHD1	0.44	0.45
tblVehicleEF	LHD1	0.28	0.32
tblVehicleEF	LHD1	7.5200e-003	7.4070e-003
tblVehicleEF	LHD1	4.1600e-004	4.1800e-004
tblVehicleEF	LHD1	4.9500e-004	4.5000e-004
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.6900e-004	2.4700e-004

tblVehicleEF	LHD1	0.13	0.18
tblVehicleEF	LHD1	0.44	0.45
tblVehicleEF	LHD1	0.30	0.34
tblVehicleEF	LHD2	7.9500e-004	7.8100e-004
tblVehicleEF	LHD2	8.9910e-003	9.9790e-003
tblVehicleEF	LHD2	6.7390e-003	6.9990e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.77	0.93
tblVehicleEF	LHD2	1.47	1.53
tblVehicleEF	LHD2	9.05	10.10
tblVehicleEF	LHD2	594.33	650.14
tblVehicleEF	LHD2	18.67	20.02
tblVehicleEF	LHD2	8.3200e-003	8.5900e-003
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	1.69	1.85
tblVehicleEF	LHD2	0.51	0.50
tblVehicleEF	LHD2	1.4070e-003	1.4340e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	2.3100e-004	2.3700e-004
tblVehicleEF	LHD2	1.2940e-003	1.3190e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.6870e-003	2.7100e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.1400e-004	2.1900e-004
tblVehicleEF	LHD2	8.5500e-004	7.9700e-004
tblVehicleEF	LHD2	0.03	0.03

tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9400e-004	3.6900e-004
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	0.15	0.15
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	6.4390e-003	6.3330e-003
tblVehicleEF	LHD2	2.3400e-004	2.2800e-004
tblVehicleEF	LHD2	8.5500e-004	7.9700e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9400e-004	3.6900e-004
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.15	0.15
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	7.9500e-004	7.8100e-004
tblVehicleEF	LHD2	8.9910e-003	9.9790e-003
tblVehicleEF	LHD2	6.7390e-003	6.9990e-003
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.77	0.94
tblVehicleEF	LHD2	1.03	1.05
tblVehicleEF	LHD2	9.05	10.10
tblVehicleEF	LHD2	594.33	650.14
tblVehicleEF	LHD2	18.67	20.02
tblVehicleEF	LHD2	8.3200e-003	8.5900e-003
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	1.57	1.74
tblVehicleEF	LHD2	0.48	0.47
tblVehicleEF	LHD2	1.4070e-003	1.4340e-003

tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	2.3100e-004	2.3700e-004
tblVehicleEF	LHD2	1.2940e-003	1.3190e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.6870e-003	2.7100e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.1400e-004	2.1900e-004
tblVehicleEF	LHD2	2.3200e-003	2.1560e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0470e-003	9.8000e-004
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	0.15	0.15
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	6.4390e-003	6.3330e-003
tblVehicleEF	LHD2	2.2600e-004	2.1900e-004
tblVehicleEF	LHD2	2.3200e-003	2.1560e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.0470e-003	9.8000e-004
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.15	0.15
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	7.9500e-004	7.8100e-004
tblVehicleEF	LHD2	8.9910e-003	9.9790e-003
tblVehicleEF	LHD2	6.7390e-003	6.9990e-003

tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.76	0.93
tblVehicleEF	LHD2	2.01	2.06
tblVehicleEF	LHD2	9.05	10.10
tblVehicleEF	LHD2	594.33	650.14
tblVehicleEF	LHD2	18.67	20.02
tblVehicleEF	LHD2	8.3200e-003	8.5900e-003
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	1.72	1.88
tblVehicleEF	LHD2	0.54	0.54
tblVehicleEF	LHD2	1.4070e-003	1.4340e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	2.3100e-004	2.3700e-004
tblVehicleEF	LHD2	1.2940e-003	1.3190e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	2.6870e-003	2.7100e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.1400e-004	2.1900e-004
tblVehicleEF	LHD2	2.3300e-004	2.1300e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3200e-004	1.2200e-004
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	0.17	0.17
tblVehicleEF	LHD2	0.14	0.15
tblVehicleEF	LHD2	6.4390e-003	6.3320e-003

tblVehicleEF	LHD2	2.4300e-004	2.3700e-004
tblVehicleEF	LHD2	2.3300e-004	2.1300e-004
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3200e-004	1.2200e-004
tblVehicleEF	LHD2	0.12	0.15
tblVehicleEF	LHD2	0.17	0.17
tblVehicleEF	LHD2	0.15	0.16
tblVehicleEF	MCY	20.29	21.83
tblVehicleEF	MCY	10.92	11.45
tblVehicleEF	MCY	136.12	153.55
tblVehicleEF	MCY	38.26	42.55
tblVehicleEF	MCY	7.8310e-003	8.4510e-003
tblVehicleEF	MCY	1.19	1.23
tblVehicleEF	MCY	0.31	0.32
tblVehicleEF	MCY	2.9200e-004	3.1000e-004
tblVehicleEF	MCY	9.4500e-004	9.8000e-004
tblVehicleEF	MCY	2.4500e-004	2.6000e-004
tblVehicleEF	MCY	7.8700e-004	8.1400e-004
tblVehicleEF	MCY	0.96	0.87
tblVehicleEF	MCY	0.40	0.39
tblVehicleEF	MCY	0.45	0.41
tblVehicleEF	MCY	2.28	2.39
tblVehicleEF	MCY	1.29	1.31
tblVehicleEF	MCY	2.22	2.31
tblVehicleEF	MCY	1.9030e-003	1.9530e-003
tblVehicleEF	MCY	6.6600e-004	6.7800e-004
tblVehicleEF	MCY	0.96	0.87

tblVehicleEF	MCY	0.40	0.39
tblVehicleEF	MCY	0.45	0.41
tblVehicleEF	MCY	2.51	2.63
tblVehicleEF	MCY	1.29	1.31
tblVehicleEF	MCY	2.38	2.48
tblVehicleEF	MCY	20.56	21.28
tblVehicleEF	MCY	8.93	9.09
tblVehicleEF	MCY	136.12	153.55
tblVehicleEF	MCY	38.26	42.55
tblVehicleEF	MCY	7.8310e-003	8.4510e-003
tblVehicleEF	MCY	0.99	1.02
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	2.9200e-004	3.1000e-004
tblVehicleEF	MCY	9.4500e-004	9.8000e-004
tblVehicleEF	MCY	2.4500e-004	2.6000e-004
tblVehicleEF	MCY	7.8700e-004	8.1400e-004
tblVehicleEF	MCY	2.93	2.66
tblVehicleEF	MCY	0.79	0.74
tblVehicleEF	MCY	1.72	1.56
tblVehicleEF	MCY	2.23	2.31
tblVehicleEF	MCY	1.27	1.27
tblVehicleEF	MCY	1.82	1.85
tblVehicleEF	MCY	1.9050e-003	1.9420e-003
tblVehicleEF	MCY	6.2200e-004	6.2600e-004
tblVehicleEF	MCY	2.93	2.66
tblVehicleEF	MCY	0.79	0.74
tblVehicleEF	MCY	1.72	1.56
tblVehicleEF	MCY	2.46	2.54

tblVehicleEF	MCY	1.27	1.27
tblVehicleEF	MCY	1.95	1.98
tblVehicleEF	MCY	22.24	23.91
tblVehicleEF	MCY	13.68	14.19
tblVehicleEF	MCY	136.12	153.55
tblVehicleEF	MCY	38.26	42.55
tblVehicleEF	MCY	7.8310e-003	8.4510e-003
tblVehicleEF	MCY	1.30	1.33
tblVehicleEF	MCY	0.34	0.34
tblVehicleEF	MCY	2.9200e-004	3.1000e-004
tblVehicleEF	MCY	9.4500e-004	9.8000e-004
tblVehicleEF	MCY	2.4500e-004	2.6000e-004
tblVehicleEF	MCY	7.8700e-004	8.1400e-004
tblVehicleEF	MCY	0.14	0.12
tblVehicleEF	MCY	0.39	0.39
tblVehicleEF	MCY	0.06	0.06
tblVehicleEF	MCY	2.40	2.51
tblVehicleEF	MCY	1.59	1.61
tblVehicleEF	MCY	2.73	2.82
tblVehicleEF	MCY	1.9370e-003	1.9900e-003
tblVehicleEF	MCY	7.2600e-004	7.3700e-004
tblVehicleEF	MCY	0.14	0.12
tblVehicleEF	MCY	0.39	0.39
tblVehicleEF	MCY	0.06	0.06
tblVehicleEF	MCY	2.64	2.76
tblVehicleEF	MCY	1.59	1.61
tblVehicleEF	MCY	2.93	3.03
tblVehicleEF	MDV	0.02	0.02

tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.49	1.70
tblVehicleEF	MDV	3.45	3.89
tblVehicleEF	MDV	450.34	578.18
tblVehicleEF	MDV	101.85	127.77
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.18	0.22
tblVehicleEF	MDV	0.30	0.33
tblVehicleEF	MDV	1.7550e-003	1.8750e-003
tblVehicleEF	MDV	3.4170e-003	3.5140e-003
tblVehicleEF	MDV	1.6230e-003	1.7320e-003
tblVehicleEF	MDV	3.1640e-003	3.2520e-003
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.18	0.19
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.56	0.58
tblVehicleEF	MDV	0.28	0.31
tblVehicleEF	MDV	5.7960e-003	5.7990e-003
tblVehicleEF	MDV	1.3390e-003	1.3460e-003
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.18	0.19
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.56	0.58
tblVehicleEF	MDV	0.30	0.34
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.02	0.02

tblVehicleEF	MDV	1.90	2.06
tblVehicleEF	MDV	2.55	2.81
tblVehicleEF	MDV	500.99	638.11
tblVehicleEF	MDV	101.85	127.77
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.17	0.20
tblVehicleEF	MDV	0.27	0.30
tblVehicleEF	MDV	1.7550e-003	1.8750e-003
tblVehicleEF	MDV	3.4170e-003	3.5140e-003
tblVehicleEF	MDV	1.6230e-003	1.7320e-003
tblVehicleEF	MDV	3.1640e-003	3.2520e-003
tblVehicleEF	MDV	0.23	0.22
tblVehicleEF	MDV	0.23	0.23
tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.56	0.57
tblVehicleEF	MDV	0.22	0.24
tblVehicleEF	MDV	6.4550e-003	6.4040e-003
tblVehicleEF	MDV	1.3230e-003	1.3270e-003
tblVehicleEF	MDV	0.23	0.22
tblVehicleEF	MDV	0.23	0.23
tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.56	0.57
tblVehicleEF	MDV	0.24	0.26
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	1.42	1.65

tblVehicleEF	MDV	4.59	5.08
tblVehicleEF	MDV	436.77	562.29
tblVehicleEF	MDV	101.85	127.77
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.21	0.25
tblVehicleEF	MDV	0.33	0.36
tblVehicleEF	MDV	1.7550e-003	1.8750e-003
tblVehicleEF	MDV	3.4170e-003	3.5140e-003
tblVehicleEF	MDV	1.6230e-003	1.7320e-003
tblVehicleEF	MDV	3.1640e-003	3.2520e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.67	0.69
tblVehicleEF	MDV	0.36	0.39
tblVehicleEF	MDV	5.6200e-003	5.6400e-003
tblVehicleEF	MDV	1.3600e-003	1.3670e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.18	0.18
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.05	0.06
tblVehicleEF	MDV	0.67	0.69
tblVehicleEF	MDV	0.38	0.42
tblVehicleEF	MH	1.16	1.57
tblVehicleEF	MH	5.81	6.58
tblVehicleEF	MH	715.81	787.08
tblVehicleEF	MH	25.80	28.99

tblVehicleEF	MH	3.5230e-003	3.7580e-003
tblVehicleEF	MH	1.63	1.67
tblVehicleEF	MH	0.61	0.66
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	8.8390e-003	8.7770e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.8600e-004	5.2700e-004
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.2100e-003	2.1940e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.4800e-004	4.8400e-004
tblVehicleEF	MH	0.82	0.79
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.21	0.21
tblVehicleEF	MH	0.08	0.09
tblVehicleEF	MH	1.27	1.33
tblVehicleEF	MH	0.31	0.34
tblVehicleEF	MH	7.8460e-003	7.7790e-003
tblVehicleEF	MH	3.8700e-004	4.0300e-004
tblVehicleEF	MH	0.82	0.79
tblVehicleEF	MH	0.05	0.05
tblVehicleEF	MH	0.21	0.21
tblVehicleEF	MH	0.10	0.12
tblVehicleEF	MH	1.27	1.33
tblVehicleEF	MH	0.33	0.37
tblVehicleEF	MH	1.21	1.63
tblVehicleEF	MH	4.01	4.33
tblVehicleEF	MH	715.81	787.08

tblVehicleEF	MH	25.80	28.99
tblVehicleEF	MH	3.5230e-003	3.7580e-003
tblVehicleEF	MH	1.49	1.53
tblVehicleEF	MH	0.58	0.61
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	8.8390e-003	8.7770e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.8600e-004	5.2700e-004
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.2100e-003	2.1940e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.4800e-004	4.8400e-004
tblVehicleEF	MH	2.25	2.16
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.61	0.60
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	1.26	1.31
tblVehicleEF	MH	0.25	0.27
tblVehicleEF	MH	7.8470e-003	7.7800e-003
tblVehicleEF	MH	3.5700e-004	3.6600e-004
tblVehicleEF	MH	2.25	2.16
tblVehicleEF	MH	0.07	0.07
tblVehicleEF	MH	0.61	0.60
tblVehicleEF	MH	0.10	0.12
tblVehicleEF	MH	1.26	1.31
tblVehicleEF	MH	0.27	0.29
tblVehicleEF	MH	1.13	1.52
tblVehicleEF	MH	8.07	8.94

tblVehicleEF	MH	715.81	787.08
tblVehicleEF	MH	25.80	28.99
tblVehicleEF	MH	3.5230e-003	3.7580e-003
tblVehicleEF	MH	1.68	1.72
tblVehicleEF	MH	0.66	0.71
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	8.8390e-003	8.7770e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.8600e-004	5.2700e-004
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.2100e-003	2.1940e-003
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	4.4800e-004	4.8400e-004
tblVehicleEF	MH	0.20	0.18
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.08	0.09
tblVehicleEF	MH	1.37	1.43
tblVehicleEF	MH	0.38	0.42
tblVehicleEF	MH	7.8460e-003	7.7780e-003
tblVehicleEF	MH	4.2500e-004	4.4300e-004
tblVehicleEF	MH	0.20	0.18
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	0.09	0.08
tblVehicleEF	MH	0.10	0.12
tblVehicleEF	MH	1.37	1.43
tblVehicleEF	MH	0.41	0.45
tblVehicleEF	MHD	7.9640e-003	7.6620e-003

tblVehicleEF	MHD	5.5540e-003	5.4810e-003
tblVehicleEF	MHD	1.90	1.87
tblVehicleEF	MHD	0.63	0.68
tblVehicleEF	MHD	15.24	17.57
tblVehicleEF	MHD	568.20	632.02
tblVehicleEF	MHD	1,010.65	1,117.51
tblVehicleEF	MHD	49.55	55.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	4.91	4.92
tblVehicleEF	MHD	2.00	2.00
tblVehicleEF	MHD	1.48	1.58
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	1.2790e-003	1.3130e-003
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8750e-003	2.8650e-003
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.1740e-003	1.2070e-003
tblVehicleEF	MHD	2.6150e-003	2.4150e-003
tblVehicleEF	MHD	0.09	0.09
tblVehicleEF	MHD	0.17	0.16
tblVehicleEF	MHD	1.0920e-003	1.0200e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.47	0.48
tblVehicleEF	MHD	0.83	0.92

tblVehicleEF	MHD	6.0230e-003	6.0300e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.1500e-004	8.5400e-004
tblVehicleEF	MHD	2.6150e-003	2.4150e-003
tblVehicleEF	MHD	0.09	0.09
tblVehicleEF	MHD	0.20	0.19
tblVehicleEF	MHD	1.0920e-003	1.0200e-003
tblVehicleEF	MHD	0.15	0.15
tblVehicleEF	MHD	0.47	0.48
tblVehicleEF	MHD	0.89	0.99
tblVehicleEF	MHD	7.5050e-003	7.2200e-003
tblVehicleEF	MHD	5.5540e-003	5.4810e-003
tblVehicleEF	MHD	1.38	1.36
tblVehicleEF	MHD	0.64	0.69
tblVehicleEF	MHD	10.60	11.60
tblVehicleEF	MHD	601.95	669.57
tblVehicleEF	MHD	1,010.65	1,117.51
tblVehicleEF	MHD	49.55	55.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.07	5.07
tblVehicleEF	MHD	1.86	1.87
tblVehicleEF	MHD	1.39	1.47
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	1.2790e-003	1.3130e-003
tblVehicleEF	MHD	0.01	0.01

tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8750e-003	2.8650e-003
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.1740e-003	1.2070e-003
tblVehicleEF	MHD	7.3410e-003	6.7320e-003
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.16	0.16
tblVehicleEF	MHD	3.0780e-003	2.8530e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.48	0.48
tblVehicleEF	MHD	0.67	0.72
tblVehicleEF	MHD	6.3810e-003	6.3880e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.3700e-004	7.5400e-004
tblVehicleEF	MHD	7.3410e-003	6.7320e-003
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.18	0.18
tblVehicleEF	MHD	3.0780e-003	2.8530e-003
tblVehicleEF	MHD	0.15	0.15
tblVehicleEF	MHD	0.48	0.48
tblVehicleEF	MHD	0.72	0.77
tblVehicleEF	MHD	8.5970e-003	8.2710e-003
tblVehicleEF	MHD	5.5540e-003	5.4810e-003
tblVehicleEF	MHD	2.62	2.57
tblVehicleEF	MHD	0.62	0.67
tblVehicleEF	MHD	21.08	23.70
tblVehicleEF	MHD	521.58	580.17
tblVehicleEF	MHD	1,010.65	1,117.51

tblVehicleEF	MHD	49.55	55.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	4.69	4.70
tblVehicleEF	MHD	2.04	2.04
tblVehicleEF	MHD	1.59	1.69
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.12	0.12
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	1.2790e-003	1.3130e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	MHD	2.8750e-003	2.8650e-003
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	1.1740e-003	1.2070e-003
tblVehicleEF	MHD	6.1900e-004	5.5800e-004
tblVehicleEF	MHD	0.09	0.09
tblVehicleEF	MHD	0.19	0.18
tblVehicleEF	MHD	3.3500e-004	3.0400e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.52	0.53
tblVehicleEF	MHD	1.03	1.13
tblVehicleEF	MHD	5.5290e-003	5.5350e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	9.1300e-004	9.5700e-004
tblVehicleEF	MHD	6.1900e-004	5.5800e-004
tblVehicleEF	MHD	0.09	0.09
tblVehicleEF	MHD	0.21	0.20

tblVehicleEF	MHD	3.3500e-004	3.0400e-004
tblVehicleEF	MHD	0.15	0.15
tblVehicleEF	MHD	0.52	0.53
tblVehicleEF	MHD	1.10	1.20
tblVehicleEF	OBUS	1.5520e-003	1.8190e-003
tblVehicleEF	OBUS	0.93	1.25
tblVehicleEF	OBUS	8.07	8.65
tblVehicleEF	OBUS	534.88	594.31
tblVehicleEF	OBUS	843.25	980.16
tblVehicleEF	OBUS	32.73	36.37
tblVehicleEF	OBUS	1.6350e-003	1.7120e-003
tblVehicleEF	OBUS	1.38	1.66
tblVehicleEF	OBUS	0.99	1.05
tblVehicleEF	OBUS	0.07	0.07
tblVehicleEF	OBUS	9.3010e-003	9.5250e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	3.9000e-004	4.0000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	2.3250e-003	2.3810e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	3.6200e-004	3.7100e-004
tblVehicleEF	OBUS	8.3900e-004	8.5400e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8100e-004	2.9100e-004
tblVehicleEF	OBUS	0.09	0.12
tblVehicleEF	OBUS	0.21	0.21
tblVehicleEF	OBUS	0.47	0.49
tblVehicleEF	OBUS	9.1550e-003	9.5560e-003

tblVehicleEF	OBUS	5.0400e-004	5.1400e-004
tblVehicleEF	OBUS	8.3900e-004	8.5400e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	2.8100e-004	2.9100e-004
tblVehicleEF	OBUS	0.11	0.14
tblVehicleEF	OBUS	0.21	0.21
tblVehicleEF	OBUS	0.50	0.52
tblVehicleEF	OBUS	1.5520e-003	1.8190e-003
tblVehicleEF	OBUS	0.95	1.29
tblVehicleEF	OBUS	5.65	5.95
tblVehicleEF	OBUS	566.66	629.62
tblVehicleEF	OBUS	843.25	980.16
tblVehicleEF	OBUS	32.73	36.37
tblVehicleEF	OBUS	1.6350e-003	1.7120e-003
tblVehicleEF	OBUS	1.26	1.55
tblVehicleEF	OBUS	0.93	0.98
tblVehicleEF	OBUS	0.07	0.07
tblVehicleEF	OBUS	9.3010e-003	9.5250e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	3.9000e-004	4.0000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	2.3250e-003	2.3810e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	3.6200e-004	3.7100e-004
tblVehicleEF	OBUS	2.2430e-003	2.2660e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	7.3300e-004	7.4900e-004
tblVehicleEF	OBUS	0.09	0.12

tblVehicleEF	OBUS	0.21	0.21
tblVehicleEF	OBUS	0.38	0.40
tblVehicleEF	OBUS	9.1560e-003	9.5560e-003
tblVehicleEF	OBUS	4.6400e-004	4.6900e-004
tblVehicleEF	OBUS	2.2430e-003	2.2660e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	7.3300e-004	7.4900e-004
tblVehicleEF	OBUS	0.11	0.14
tblVehicleEF	OBUS	0.21	0.21
tblVehicleEF	OBUS	0.41	0.43
tblVehicleEF	OBUS	1.5520e-003	1.8190e-003
tblVehicleEF	OBUS	0.90	1.22
tblVehicleEF	OBUS	11.07	11.77
tblVehicleEF	OBUS	491.00	545.55
tblVehicleEF	OBUS	843.25	980.16
tblVehicleEF	OBUS	32.73	36.37
tblVehicleEF	OBUS	1.6350e-003	1.7120e-003
tblVehicleEF	OBUS	1.42	1.71
tblVehicleEF	OBUS	1.06	1.12
tblVehicleEF	OBUS	0.07	0.07
tblVehicleEF	OBUS	9.3010e-003	9.5250e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	3.9000e-004	4.0000e-004
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	2.3250e-003	2.3810e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	3.6200e-004	3.7100e-004
tblVehicleEF	OBUS	2.4800e-004	2.4900e-004

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	1.2200e-004	1.2300e-004
tblVehicleEF	OBUS	0.09	0.12
tblVehicleEF	OBUS	0.23	0.23
tblVehicleEF	OBUS	0.56	0.59
tblVehicleEF	OBUS	9.1550e-003	9.5550e-003
tblVehicleEF	OBUS	5.5500e-004	5.6700e-004
tblVehicleEF	OBUS	2.4800e-004	2.4900e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	1.2200e-004	1.2300e-004
tblVehicleEF	OBUS	0.11	0.14
tblVehicleEF	OBUS	0.23	0.23
tblVehicleEF	OBUS	0.60	0.63
tblVehicleEF	SBUS	5.7430e-003	5.5420e-003
tblVehicleEF	SBUS	3.22	3.50
tblVehicleEF	SBUS	35.65	36.37
tblVehicleEF	SBUS	547.00	607.77
tblVehicleEF	SBUS	1,047.64	1,149.27
tblVehicleEF	SBUS	115.30	128.11
tblVehicleEF	SBUS	6.0800e-004	5.2800e-004
tblVehicleEF	SBUS	7.38	7.25
tblVehicleEF	SBUS	2.49	2.58
tblVehicleEF	SBUS	0.58	0.56
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	4.4410e-003	4.3580e-003
tblVehicleEF	SBUS	0.25	0.24
tblVehicleEF	SBUS	2.7680e-003	2.7410e-003

tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	4.1210e-003	4.0430e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	9.6990e-003	9.6410e-003
tblVehicleEF	SBUS	0.30	0.31
tblVehicleEF	SBUS	2.47	2.44
tblVehicleEF	SBUS	2.13	2.15
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9060e-003	1.9180e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	0.24	0.24
tblVehicleEF	SBUS	9.6990e-003	9.6410e-003
tblVehicleEF	SBUS	0.34	0.35
tblVehicleEF	SBUS	2.47	2.44
tblVehicleEF	SBUS	2.28	2.30
tblVehicleEF	SBUS	5.7430e-003	5.5420e-003
tblVehicleEF	SBUS	3.34	3.64
tblVehicleEF	SBUS	27.51	27.89
tblVehicleEF	SBUS	579.49	643.88
tblVehicleEF	SBUS	1,047.64	1,149.27
tblVehicleEF	SBUS	115.30	128.11
tblVehicleEF	SBUS	6.0800e-004	5.2800e-004
tblVehicleEF	SBUS	6.85	6.72
tblVehicleEF	SBUS	2.26	2.34
tblVehicleEF	SBUS	0.58	0.56
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05

tblVehicleEF	SBUS	4.4410e-003	4.3580e-003
tblVehicleEF	SBUS	0.25	0.24
tblVehicleEF	SBUS	2.7680e-003	2.7410e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	4.1210e-003	4.0430e-003
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.28	0.28
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.31	0.32
tblVehicleEF	SBUS	2.22	2.19
tblVehicleEF	SBUS	1.81	1.83
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.7680e-003	1.7740e-003
tblVehicleEF	SBUS	0.11	0.11
tblVehicleEF	SBUS	0.28	0.28
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	0.35	0.37
tblVehicleEF	SBUS	2.22	2.19
tblVehicleEF	SBUS	1.94	1.95
tblVehicleEF	SBUS	5.7430e-003	5.5420e-003
tblVehicleEF	SBUS	3.11	3.38
tblVehicleEF	SBUS	45.85	46.60
tblVehicleEF	SBUS	502.12	557.91
tblVehicleEF	SBUS	1,047.64	1,149.27
tblVehicleEF	SBUS	115.30	128.11
tblVehicleEF	SBUS	6.0800e-004	5.2800e-004
tblVehicleEF	SBUS	7.54	7.42
tblVehicleEF	SBUS	2.70	2.79

tblVehicleEF	SBUS	0.58	0.56
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.05
tblVehicleEF	SBUS	4.4410e-003	4.3580e-003
tblVehicleEF	SBUS	0.25	0.24
tblVehicleEF	SBUS	2.7680e-003	2.7410e-003
tblVehicleEF	SBUS	0.04	0.04
tblVehicleEF	SBUS	4.1210e-003	4.0430e-003
tblVehicleEF	SBUS	8.6450e-003	8.4100e-003
tblVehicleEF	SBUS	0.27	0.26
tblVehicleEF	SBUS	3.8480e-003	3.7590e-003
tblVehicleEF	SBUS	0.29	0.31
tblVehicleEF	SBUS	3.04	3.01
tblVehicleEF	SBUS	2.49	2.51
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.0770e-003	2.0890e-003
tblVehicleEF	SBUS	8.6450e-003	8.4100e-003
tblVehicleEF	SBUS	0.27	0.26
tblVehicleEF	SBUS	3.8480e-003	3.7590e-003
tblVehicleEF	SBUS	0.33	0.35
tblVehicleEF	SBUS	3.04	3.01
tblVehicleEF	SBUS	2.65	2.67
tblVehicleEF	UBUS	1,760.65	1,956.28
tblVehicleEF	UBUS	35.86	39.84
tblVehicleEF	UBUS	1.2800e-003	1.0720e-003
tblVehicleEF	UBUS	1,760.65	1,956.28
tblVehicleEF	UBUS	35.86	39.84
tblVehicleEF	UBUS	1.2800e-003	1.0720e-003

tblVehicleEF	UBUS	1,760.65	1,956.28
tblVehicleEF	UBUS	35.86	39.84
tblVehicleEF	UBUS	1.2800e-003	1.0720e-003
tblVehicleTrips	ST_TR	2.37	2.45
tblVehicleTrips	ST_TR	158.37	113.45
tblVehicleTrips	ST_TR	8.19	28.98
tblVehicleTrips	ST_TR	0.00	0.01
tblVehicleTrips	ST_TR	10.37	13.39
tblVehicleTrips	ST_TR	20.87	42.70
tblVehicleTrips	ST_TR	49.97	36.63
tblVehicleTrips	SU_TR	0.98	1.05
tblVehicleTrips	SU_TR	131.84	101.95
tblVehicleTrips	SU_TR	5.95	26.01
tblVehicleTrips	SU_TR	0.00	0.01
tblVehicleTrips	SU_TR	36.63	49.95
tblVehicleTrips	SU_TR	26.73	44.09
tblVehicleTrips	SU_TR	25.24	16.40
tblVehicleTrips	WD_TR	11.01	9.48
tblVehicleTrips	WD_TR	127.15	111.07
tblVehicleTrips	WD_TR	8.17	33.55
tblVehicleTrips	WD_TR	0.00	0.09
tblVehicleTrips	WD_TR	9.11	8.00
tblVehicleTrips	WD_TR	32.93	37.25
tblVehicleTrips	WD_TR	42.94	37.94

## 2.0 Emissions Summary

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**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2015											0.0000	177.6583	177.6583	0.0458	0.0000	178.6209
2016											0.0000	936.5780	936.5780	0.0608	0.0000	937.8544
2017											0.0000	1,386.8669	1,386.8669	0.0995	0.0000	1,388.9566
2018											0.0000	477.5551	477.5551	0.0420	0.0000	478.4366
2019											0.0000	1,586.0607	1,586.0607	0.1011	0.0000	1,588.1848
2020											0.0000	492.2011	492.2011	0.0305	0.0000	492.8425
2021											0.0000	137.0355	137.0355	6.1700e-003	0.0000	137.1651
2022											0.0000	10.3789	10.3789	4.5000e-004	0.0000	10.3884
<b>Total</b>											<b>0.0000</b>	<b>5,204.3345</b>	<b>5,204.3345</b>	<b>0.3864</b>	<b>0.0000</b>	<b>5,212.4492</b>



**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	0.0590	0.0590	1.6000e-004	0.0000	0.0623
Energy											0.0000	2,753.4198	2,753.4198	0.0889	0.0281	2,763.9902
Mobile											0.0000	11,030.3817	11,030.3817	0.2834	0.0000	11,036.3330
Waste											295.4635	0.0000	295.4635	17.4614	0.0000	662.1527
Water											12.0331	94.5939	106.6270	1.2394	0.0299	141.9222
<b>Total</b>											<b>307.4966</b>	<b>13,878.4544</b>	<b>14,185.9510</b>	<b>19.0732</b>	<b>0.0580</b>	<b>14,604.4605</b>

## 2.2 Overall Operational

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	0.0590	0.0590	1.6000e-004	0.0000	0.0623
Energy											0.0000	2,753.4198	2,753.4198	0.0889	0.0281	2,763.9902
Mobile											0.0000	10,428.6869	10,428.6869	0.2696	0.0000	10,434.3489
Waste											295.4635	0.0000	295.4635	17.4614	0.0000	662.1527
Water											12.0331	94.5939	106.6270	1.2392	0.0299	141.9047
<b>Total</b>											<b>307.4966</b>	<b>13,276.7596</b>	<b>13,584.2562</b>	<b>19.0592</b>	<b>0.0579</b>	<b>14,002.4589</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	4.34	4.24	0.07	0.07	4.12

## 3.0 Construction Detail

### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/5/2015	10/16/2015	5	10	
2	Grading - Phase 1	Grading	10/17/2015	12/11/2015	5	40	
3	Paving - Phase 1	Paving	12/12/2015	12/25/2015	5	10	
4	Building Construction - Phase 1	Building Construction	12/26/2015	7/1/2016	5	135	
5	Architectural Coating - Phase 1	Architectural Coating	1/11/2016	7/15/2016	5	135	
6	Grading - Phase 2	Grading	1/7/2017	1/20/2017	5	10	
7	Paving - Phase 2	Paving	1/21/2017	2/10/2017	5	15	
8	Building Construction - Phase 2	Building Construction	2/11/2017	11/17/2017	5	200	
9	Arch Coating - Phase 2	Architectural Coating	7/24/2017	4/27/2018	5	200	
10	Grading - Phase 3	Grading	8/25/2018	9/7/2018	5	10	
11	Paving - Phase 3	Paving	9/8/2018	10/5/2018	5	20	
12	Building Construction - Phase 3	Building Construction	10/6/2018	4/10/2020	5	395	
13	Arch Coating - Phase 3	Architectural Coating	7/27/2020	1/28/2022	5	395	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 862,206; Non-Residential Outdoor: 287,402 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading - Phase 1	Excavators	2	8.00	162	0.38
Grading - Phase 1	Graders	1	8.00	174	0.41

Grading - Phase 1	Rubber Tired Dozers	1	8.00	255	0.40
Grading - Phase 1	Scrapers	2	8.00	361	0.48
Grading - Phase 1	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving - Phase 1	Pavers	2	8.00	125	0.42
Paving - Phase 1	Paving Equipment	2	8.00	130	0.36
Paving - Phase 1	Rollers	2	8.00	80	0.38
Building Construction - Phase 1	Cranes	1	7.00	226	0.29
Building Construction - Phase 1	Forklifts	3	8.00	89	0.20
Building Construction - Phase 1	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 1	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 1	Welders	1	8.00	46	0.45
Architectural Coating - Phase 1	Air Compressors	1	6.00	78	0.48
Grading - Phase 2	Excavators	2	8.00	162	0.38
Grading - Phase 2	Graders	1	8.00	174	0.41
Grading - Phase 2	Rubber Tired Dozers	1	8.00	255	0.40
Grading - Phase 2	Scrapers	2	8.00	361	0.48
Grading - Phase 2	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving - Phase 2	Pavers	2	8.00	125	0.42
Paving - Phase 2	Paving Equipment	2	8.00	130	0.36
Paving - Phase 2	Rollers	2	8.00	80	0.38
Building Construction - Phase 2	Cranes	1	7.00	226	0.29
Building Construction - Phase 2	Forklifts	3	8.00	89	0.20
Building Construction - Phase 2	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 2	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 2	Welders	1	8.00	46	0.45
Arch Coating - Phase 2	Air Compressors	1	6.00	78	0.48
Grading - Phase 3	Excavators	2	8.00	162	0.38
Grading - Phase 3	Graders	1	8.00	174	0.41

Grading - Phase 3	Rubber Tired Dozers	1	8.00	255	0.40
Grading - Phase 3	Scrapers	2	8.00	361	0.48
Grading - Phase 3	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving - Phase 3	Pavers	2	8.00	125	0.42
Paving - Phase 3	Paving Equipment	2	8.00	130	0.36
Paving - Phase 3	Rollers	2	8.00	80	0.38
Building Construction - Phase 3	Cranes	1	7.00	226	0.29
Building Construction - Phase 3	Forklifts	3	8.00	89	0.20
Building Construction - Phase 3	Generator Sets	1	8.00	84	0.74
Building Construction - Phase 3	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Phase 3	Welders	1	8.00	46	0.45
Arch Coating - Phase 3	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 1	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 1	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 1	9	685.00	273.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating - Phase 1	1	137.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 2	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 2	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 2	9	685.00	273.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Arch Coating - Phase 2	1	137.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading - Phase 3	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Phase 3	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Phase 3	9	685.00	273.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Arch Coating - Phase 3	1	137.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

**3.2 Site Preparation - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	18.6506	18.6506	5.5700e-003	0.0000	18.7675
<b>Total</b>											<b>0.0000</b>	<b>18.6506</b>	<b>18.6506</b>	<b>5.5700e-003</b>	<b>0.0000</b>	<b>18.7675</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.6454	0.6454	3.0000e-005	0.0000	0.6460
<b>Total</b>											<b>0.0000</b>	<b>0.6454</b>	<b>0.6454</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6460</b>

### 3.2 Site Preparation - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	18.6505	18.6505	5.5700e-003	0.0000	18.7675
<b>Total</b>											<b>0.0000</b>	<b>18.6505</b>	<b>18.6505</b>	<b>5.5700e-003</b>	<b>0.0000</b>	<b>18.7675</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.6454	0.6454	3.0000e-005	0.0000	0.6460
<b>Total</b>											<b>0.0000</b>	<b>0.6454</b>	<b>0.6454</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6460</b>

### 3.3 Grading - Phase 1 - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	117.6844	117.6844	0.0351	0.0000	118.4222
<b>Total</b>											<b>0.0000</b>	<b>117.6844</b>	<b>117.6844</b>	<b>0.0351</b>	<b>0.0000</b>	<b>118.4222</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	2.8683	2.8683	1.3000e-004	0.0000	2.8711
<b>Total</b>											<b>0.0000</b>	<b>2.8683</b>	<b>2.8683</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.8711</b>

### 3.3 Grading - Phase 1 - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	117.6843	117.6843	0.0351	0.0000	118.4221
<b>Total</b>											<b>0.0000</b>	<b>117.6843</b>	<b>117.6843</b>	<b>0.0351</b>	<b>0.0000</b>	<b>118.4221</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	2.8683	2.8683	1.3000e-004	0.0000	2.8711
<b>Total</b>											<b>0.0000</b>	<b>2.8683</b>	<b>2.8683</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.8711</b>

**3.4 Paving - Phase 1 - 2015**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	10.6136	10.6136	3.1700e-003	0.0000		10.6801
Paving											0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>											<b>0.0000</b>	<b>10.6136</b>	<b>10.6136</b>	<b>3.1700e-003</b>	<b>0.0000</b>		<b>10.6801</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker											0.0000	0.5378	0.5378	2.0000e-005	0.0000		0.5383
<b>Total</b>											<b>0.0000</b>	<b>0.5378</b>	<b>0.5378</b>	<b>2.0000e-005</b>	<b>0.0000</b>		<b>0.5383</b>

### 3.4 Paving - Phase 1 - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	10.6136	10.6136	3.1700e-003	0.0000	10.6801
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>											<b>0.0000</b>	<b>10.6136</b>	<b>10.6136</b>	<b>3.1700e-003</b>	<b>0.0000</b>	<b>10.6801</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.5378	0.5378	2.0000e-005	0.0000	0.5383
<b>Total</b>											<b>0.0000</b>	<b>0.5378</b>	<b>0.5378</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.5383</b>

### 3.5 Building Construction - Phase 1 - 2015

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	4.8799	4.8799	1.2200e-003	0.0000	4.9056
<b>Total</b>											<b>0.0000</b>	<b>4.8799</b>	<b>4.8799</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>4.9056</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	11.9543	11.9543	1.0000e-004	0.0000	11.9565
Worker											0.0000	9.8240	9.8240	4.5000e-004	0.0000	9.8335
<b>Total</b>											<b>0.0000</b>	<b>21.7783</b>	<b>21.7783</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>21.7900</b>

### 3.5 Building Construction - Phase 1 - 2015

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	4.8799	4.8799	1.2200e-003	0.0000	4.9056
<b>Total</b>											<b>0.0000</b>	<b>4.8799</b>	<b>4.8799</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>4.9056</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	11.9543	11.9543	1.0000e-004	0.0000	11.9565
Worker											0.0000	9.8240	9.8240	4.5000e-004	0.0000	9.8335
<b>Total</b>											<b>0.0000</b>	<b>21.7783</b>	<b>21.7783</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>21.7900</b>

### 3.5 Building Construction - Phase 1 - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	158.6106	158.6106	0.0393	0.0000	159.4367
<b>Total</b>											<b>0.0000</b>	<b>158.6106</b>	<b>158.6106</b>	<b>0.0393</b>	<b>0.0000</b>	<b>159.4367</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	386.8908	386.8908	3.1100e-003	0.0000	386.9561
Worker											0.0000	309.9578	309.9578	0.0135	0.0000	310.2416
<b>Total</b>											<b>0.0000</b>	<b>696.8485</b>	<b>696.8485</b>	<b>0.0166</b>	<b>0.0000</b>	<b>697.1977</b>

### 3.5 Building Construction - Phase 1 - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	158.6104	158.6104	0.0393	0.0000	159.4365
<b>Total</b>											<b>0.0000</b>	<b>158.6104</b>	<b>158.6104</b>	<b>0.0393</b>	<b>0.0000</b>	<b>159.4365</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	386.8908	386.8908	3.1100e-003	0.0000	386.9561
Worker											0.0000	309.9578	309.9578	0.0135	0.0000	310.2416
<b>Total</b>											<b>0.0000</b>	<b>696.8485</b>	<b>696.8485</b>	<b>0.0166</b>	<b>0.0000</b>	<b>697.1977</b>

### 3.6 Architectural Coating - Phase 1 - 2016

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	17.2345	17.2345	2.0300e-003	0.0000	17.2771
<b>Total</b>											<b>0.0000</b>	<b>17.2345</b>	<b>17.2345</b>	<b>2.0300e-003</b>	<b>0.0000</b>	<b>17.2771</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	63.8844	63.8844	2.7900e-003	0.0000	63.9429
<b>Total</b>											<b>0.0000</b>	<b>63.8844</b>	<b>63.8844</b>	<b>2.7900e-003</b>	<b>0.0000</b>	<b>63.9429</b>

### 3.6 Architectural Coating - Phase 1 - 2016

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	17.2344	17.2344	2.0300e-003	0.0000	17.2771
<b>Total</b>											<b>0.0000</b>	<b>17.2344</b>	<b>17.2344</b>	<b>2.0300e-003</b>	<b>0.0000</b>	<b>17.2771</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	63.8844	63.8844	2.7900e-003	0.0000	63.9429
<b>Total</b>											<b>0.0000</b>	<b>63.8844</b>	<b>63.8844</b>	<b>2.7900e-003</b>	<b>0.0000</b>	<b>63.9429</b>

**3.7 Grading - Phase 2 - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	28.6370	28.6370	8.7700e-003	0.0000	28.8212
<b>Total</b>											<b>0.0000</b>	<b>28.6370</b>	<b>28.6370</b>	<b>8.7700e-003</b>	<b>0.0000</b>	<b>28.8212</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.6633	0.6633	3.0000e-005	0.0000	0.6639
<b>Total</b>											<b>0.0000</b>	<b>0.6633</b>	<b>0.6633</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6639</b>

**3.7 Grading - Phase 2 - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	28.6369	28.6369	8.7700e-003	0.0000	28.8212
<b>Total</b>											<b>0.0000</b>	<b>28.6369</b>	<b>28.6369</b>	<b>8.7700e-003</b>	<b>0.0000</b>	<b>28.8212</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.6633	0.6633	3.0000e-005	0.0000	0.6639
<b>Total</b>											<b>0.0000</b>	<b>0.6633</b>	<b>0.6633</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6639</b>

**3.8 Paving - Phase 2 - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	15.5201	15.5201	4.7600e-003	0.0000	15.6199
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>											<b>0.0000</b>	<b>15.5201</b>	<b>15.5201</b>	<b>4.7600e-003</b>	<b>0.0000</b>	<b>15.6199</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.7462	0.7462	3.0000e-005	0.0000	0.7469
<b>Total</b>											<b>0.0000</b>	<b>0.7462</b>	<b>0.7462</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.7469</b>

### 3.8 Paving - Phase 2 - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	15.5200	15.5200	4.7600e-003	0.0000	15.6199
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>											<b>0.0000</b>	<b>15.5200</b>	<b>15.5200</b>	<b>4.7600e-003</b>	<b>0.0000</b>	<b>15.6199</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.7462	0.7462	3.0000e-005	0.0000	0.7469
<b>Total</b>											<b>0.0000</b>	<b>0.7462</b>	<b>0.7462</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.7469</b>

### 3.9 Building Construction - Phase 2 - 2017

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	239.4791	239.4791	0.0589	0.0000	240.7169
<b>Total</b>											<b>0.0000</b>	<b>239.4791</b>	<b>239.4791</b>	<b>0.0589</b>	<b>0.0000</b>	<b>240.7169</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	580.5173	580.5173	4.4100e-003	0.0000	580.6100
Worker											0.0000	454.3701	454.3701	0.0189	0.0000	454.7660
<b>Total</b>											<b>0.0000</b>	<b>1,034.8875</b>	<b>1,034.8875</b>	<b>0.0233</b>	<b>0.0000</b>	<b>1,035.3760</b>

### 3.9 Building Construction - Phase 2 - 2017

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	239.4788	239.4788	0.0589	0.0000	240.7166
<b>Total</b>											<b>0.0000</b>	<b>239.4788</b>	<b>239.4788</b>	<b>0.0589</b>	<b>0.0000</b>	<b>240.7166</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	580.5173	580.5173	4.4100e-003	0.0000	580.6100
Worker											0.0000	454.3701	454.3701	0.0189	0.0000	454.7660
<b>Total</b>											<b>0.0000</b>	<b>1,034.8875</b>	<b>1,034.8875</b>	<b>0.0233</b>	<b>0.0000</b>	<b>1,035.3760</b>

**3.10 Arch Coating - Phase 2 - 2017**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	14.6812	14.6812	1.5500e-003	0.0000	14.7138
<b>Total</b>											<b>0.0000</b>	<b>14.6812</b>	<b>14.6812</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>14.7138</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	52.2526	52.2526	2.1700e-003	0.0000	52.2981
<b>Total</b>											<b>0.0000</b>	<b>52.2526</b>	<b>52.2526</b>	<b>2.1700e-003</b>	<b>0.0000</b>	<b>52.2981</b>

**3.10 Arch Coating - Phase 2 - 2017**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	14.6812	14.6812	1.5500e-003	0.0000	14.7137
<b>Total</b>											<b>0.0000</b>	<b>14.6812</b>	<b>14.6812</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>14.7137</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	52.2526	52.2526	2.1700e-003	0.0000	52.2981
<b>Total</b>											<b>0.0000</b>	<b>52.2526</b>	<b>52.2526</b>	<b>2.1700e-003</b>	<b>0.0000</b>	<b>52.2981</b>

**3.10 Arch Coating - Phase 2 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	10.8514	10.8514	1.0300e-003	0.0000	10.8730
<b>Total</b>											<b>0.0000</b>	<b>10.8514</b>	<b>10.8514</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>10.8730</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	37.1546	37.1546	1.4800e-003	0.0000	37.1856
<b>Total</b>											<b>0.0000</b>	<b>37.1546</b>	<b>37.1546</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>37.1856</b>

**3.10 Arch Coating - Phase 2 - 2018****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	10.8513	10.8513	1.0300e-003	0.0000	10.8730
<b>Total</b>											<b>0.0000</b>	<b>10.8513</b>	<b>10.8513</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>10.8730</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	37.1546	37.1546	1.4800e-003	0.0000	37.1856
<b>Total</b>											<b>0.0000</b>	<b>37.1546</b>	<b>37.1546</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>37.1856</b>

**3.11 Grading - Phase 3 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	28.1808	28.1808	8.7700e-003	0.0000	28.3650
<b>Total</b>											<b>0.0000</b>	<b>28.1808</b>	<b>28.1808</b>	<b>8.7700e-003</b>	<b>0.0000</b>	<b>28.3650</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.6381	0.6381	3.0000e-005	0.0000	0.6387
<b>Total</b>											<b>0.0000</b>	<b>0.6381</b>	<b>0.6381</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6387</b>

### 3.11 Grading - Phase 3 - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	28.1808	28.1808	8.7700e-003	0.0000	28.3650
<b>Total</b>											<b>0.0000</b>	<b>28.1808</b>	<b>28.1808</b>	<b>8.7700e-003</b>	<b>0.0000</b>	<b>28.3650</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.6381	0.6381	3.0000e-005	0.0000	0.6387
<b>Total</b>											<b>0.0000</b>	<b>0.6381</b>	<b>0.6381</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6387</b>

**3.12 Paving - Phase 3 - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	20.3687	20.3687	6.3400e-003	0.0000	20.5019
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>											<b>0.0000</b>	<b>20.3687</b>	<b>20.3687</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>20.5019</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.9572	0.9572	4.0000e-005	0.0000	0.9580
<b>Total</b>											<b>0.0000</b>	<b>0.9572</b>	<b>0.9572</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.9580</b>

### 3.12 Paving - Phase 3 - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	20.3687	20.3687	6.3400e-003	0.0000	20.5019
Paving											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>											<b>0.0000</b>	<b>20.3687</b>	<b>20.3687</b>	<b>6.3400e-003</b>	<b>0.0000</b>	<b>20.5019</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	0.9572	0.9572	4.0000e-005	0.0000	0.9580
<b>Total</b>											<b>0.0000</b>	<b>0.9572</b>	<b>0.9572</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.9580</b>

### 3.13 Building Construction - Phase 3 - 2018

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	72.2148	72.2148	0.0177	0.0000	72.5859
<b>Total</b>											<b>0.0000</b>	<b>72.2148</b>	<b>72.2148</b>	<b>0.0177</b>	<b>0.0000</b>	<b>72.5859</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	173.8704	173.8704	1.3100e-003	0.0000	173.8979
Worker											0.0000	133.3193	133.3193	5.3100e-003	0.0000	133.4307
<b>Total</b>											<b>0.0000</b>	<b>307.1896</b>	<b>307.1896</b>	<b>6.6200e-003</b>	<b>0.0000</b>	<b>307.3286</b>

### 3.13 Building Construction - Phase 3 - 2018

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	72.2147	72.2147	0.0177	0.0000	72.5858
<b>Total</b>											<b>0.0000</b>	<b>72.2147</b>	<b>72.2147</b>	<b>0.0177</b>	<b>0.0000</b>	<b>72.5858</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	173.8704	173.8704	1.3100e-003	0.0000	173.8979
Worker											0.0000	133.3193	133.3193	5.3100e-003	0.0000	133.4307
<b>Total</b>											<b>0.0000</b>	<b>307.1896</b>	<b>307.1896</b>	<b>6.6200e-003</b>	<b>0.0000</b>	<b>307.3286</b>

**3.13 Building Construction - Phase 3 - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	305.5302	305.5302	0.0743	0.0000	307.0913
<b>Total</b>											<b>0.0000</b>	<b>305.5302</b>	<b>305.5302</b>	<b>0.0743</b>	<b>0.0000</b>	<b>307.0913</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	731.3336	731.3336	5.4400e-003	0.0000	731.4479
Worker											0.0000	549.1970	549.1970	0.0214	0.0000	549.6456
<b>Total</b>											<b>0.0000</b>	<b>1,280.5305</b>	<b>1,280.5305</b>	<b>0.0268</b>	<b>0.0000</b>	<b>1,281.0935</b>

**3.13 Building Construction - Phase 3 - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road											0.0000	305.5299	305.5299	0.0743	0.0000	307.0909
<b>Total</b>											<b>0.0000</b>	<b>305.5299</b>	<b>305.5299</b>	<b>0.0743</b>	<b>0.0000</b>	<b>307.0909</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	731.3336	731.3336	5.4400e-003	0.0000	731.4479
Worker											0.0000	549.1970	549.1970	0.0214	0.0000	549.6456
<b>Total</b>											<b>0.0000</b>	<b>1,280.5305</b>	<b>1,280.5305</b>	<b>0.0268</b>	<b>0.0000</b>	<b>1,281.0935</b>

**3.13 Building Construction - Phase 3 - 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					
Off-Road											0.0000	84.1872	84.1872	0.0205	0.0000	84.6179
<b>Total</b>											<b>0.0000</b>	<b>84.1872</b>	<b>84.1872</b>	<b>0.0205</b>	<b>0.0000</b>	<b>84.6179</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	199.8894	199.8894	1.4600e-003	0.0000	199.9202
Worker											0.0000	147.5019	147.5019	5.6700e-003	0.0000	147.6209
<b>Total</b>											<b>0.0000</b>	<b>347.3913</b>	<b>347.3913</b>	<b>7.1300e-003</b>	<b>0.0000</b>	<b>347.5411</b>

### 3.13 Building Construction - Phase 3 - 2020

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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											0.0000	84.1871	84.1871	0.0205	0.0000	84.6178
<b>Total</b>											<b>0.0000</b>	<b>84.1871</b>	<b>84.1871</b>	<b>0.0205</b>	<b>0.0000</b>	<b>84.6178</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	199.8894	199.8894	1.4600e-003	0.0000	199.9202
Worker											0.0000	147.5019	147.5019	5.6700e-003	0.0000	147.6209
<b>Total</b>											<b>0.0000</b>	<b>347.3913</b>	<b>347.3913</b>	<b>7.1300e-003</b>	<b>0.0000</b>	<b>347.5411</b>

**3.14 Arch Coating - Phase 3 - 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					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	14.5536	14.5536	1.1300e-003	0.0000	14.5772
<b>Total</b>											<b>0.0000</b>	<b>14.5536</b>	<b>14.5536</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>14.5772</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	46.0691	46.0691	1.7700e-003	0.0000	46.1063
<b>Total</b>											<b>0.0000</b>	<b>46.0691</b>	<b>46.0691</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>46.1063</b>

**3.14 Arch Coating - Phase 3 - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	14.5535	14.5535	1.1300e-003	0.0000	14.5772
<b>Total</b>											<b>0.0000</b>	<b>14.5535</b>	<b>14.5535</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>14.5772</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	46.0691	46.0691	1.7700e-003	0.0000	46.1063
<b>Total</b>											<b>0.0000</b>	<b>46.0691</b>	<b>46.0691</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>46.1063</b>

**3.14 Arch Coating - Phase 3 - 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					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	33.3200	33.3200	2.2900e-003	0.0000	33.3680
<b>Total</b>											<b>0.0000</b>	<b>33.3200</b>	<b>33.3200</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>33.3680</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	103.7155	103.7155	3.8800e-003	0.0000	103.7971
<b>Total</b>											<b>0.0000</b>	<b>103.7155</b>	<b>103.7155</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>103.7971</b>

**3.14 Arch Coating - Phase 3 - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	33.3199	33.3199	2.2900e-003	0.0000	33.3679
<b>Total</b>											<b>0.0000</b>	<b>33.3199</b>	<b>33.3199</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>33.3679</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	103.7155	103.7155	3.8800e-003	0.0000	103.7971
<b>Total</b>											<b>0.0000</b>	<b>103.7155</b>	<b>103.7155</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>103.7971</b>

**3.14 Arch Coating - Phase 3 - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5567
<b>Total</b>											<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.5567</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	7.8256	7.8256	2.9000e-004	0.0000	7.8316
<b>Total</b>											<b>0.0000</b>	<b>7.8256</b>	<b>7.8256</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>7.8316</b>

### 3.14 Arch Coating - Phase 3 - 2022

#### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road											0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5567
<b>Total</b>											<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.5567</b>

#### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker											0.0000	7.8256	7.8256	2.9000e-004	0.0000	7.8316
<b>Total</b>											<b>0.0000</b>	<b>7.8256</b>	<b>7.8256</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>7.8316</b>

### 4.0 Operational Detail - Mobile

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### 4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	10,428.6869	10,428.6869	0.2696	0.0000	10,434.3489
Unmitigated											0.0000	11,030.3817	11,030.3817	0.2834	0.0000	11,036.3330

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	1,104.42	285.43	122.33	2,024,411	1,908,687
High Turnover (Sit Down Restaurant)	1,243.98	1,270.64	1141.84	1,430,838	1,349,045
Hotel	4,193.75	3,622.50	3251.25	7,556,975	7,124,985
Parking Lot	0.00	0.00	0.00		
Place of Worship	1,040.00	1,740.70	6493.50	3,590,169	3,384,939
Racquet Club	2,384.00	2,732.80	2821.76	4,246,228	4,003,495
Regional Shopping Center	1,434.13	1,384.61	619.92	2,298,130	2,166,759
<b>Total</b>	<b>11,400.29</b>	<b>11,036.68</b>	<b>14,450.60</b>	<b>21,146,751</b>	<b>19,937,909</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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Place of Worship	9.50	7.30	7.30	0.00	95.00	5.00	64	25	11
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

## 5.0 Energy Detail

### 5.1 Fleet Mix

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated											0.0000	2,079.1380	2,079.1380	0.0760	0.0157	2,085.6048
Electricity Unmitigated											0.0000	2,079.1380	2,079.1380	0.0760	0.0157	2,085.6048
NaturalGas Mitigated											0.0000	674.2819	674.2819	0.0129	0.0124	678.3854
NaturalGas Unmitigated											0.0000	674.2819	674.2819	0.0129	0.0124	678.3854

### 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					
High Turnover (Sit Down Restaurant)	1.24925e+006											0.0000	66.6646	66.6646	1.2800e-003	1.2200e-003	67.0703
Hotel	5.10197e+006											0.0000	272.2603	272.2603	5.2200e-003	4.9900e-003	273.9172
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Place of Worship	2.5493e+006											0.0000	136.0404	136.0404	2.6100e-003	2.4900e-003	136.8683
Racquet Club	1.25504e+006											0.0000	66.9737	66.9737	1.2800e-003	1.2300e-003	67.3813
Regional Shopping Center	464562											0.0000	24.7908	24.7908	4.8000e-004	4.5000e-004	24.9417
General Office Building	2.01545e+006											0.0000	107.5521	107.5521	2.0600e-003	1.9700e-003	108.2066
<b>Total</b>												<b>0.0000</b>	<b>674.2819</b>	<b>674.2819</b>	<b>0.0129</b>	<b>0.0124</b>	<b>678.3854</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					
High Turnover (Sit Down Restaurant)	1.24925e+006											0.0000	66.6646	66.6646	1.2800e-003	1.2200e-003	67.0703
Hotel	5.10197e+006											0.0000	272.2603	272.2603	5.2200e-003	4.9900e-003	273.9172
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Place of Worship	2.5493e+006											0.0000	136.0404	136.0404	2.6100e-003	2.4900e-003	136.8683
Racquet Club	1.25504e+006											0.0000	66.9737	66.9737	1.2800e-003	1.2300e-003	67.3813
Regional Shopping Center	464562											0.0000	24.7908	24.7908	4.8000e-004	4.5000e-004	24.9417
General Office Building	2.01545e+006											0.0000	107.5521	107.5521	2.0600e-003	1.9700e-003	108.2066
<b>Total</b>												<b>0.0000</b>	<b>674.2819</b>	<b>674.2819</b>	<b>0.0129</b>	<b>0.0124</b>	<b>678.3854</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.30131e+006	427.3588	0.0156	3.2300e-003	428.6880
High Turnover (Sit Down Restaurant)	376432	123.6232	4.5200e-003	9.3000e-004	124.0077
Hotel	1.36488e+006	448.2373	0.0164	3.3900e-003	449.6315
Parking Lot	991584	325.6440	0.0119	2.4600e-003	326.6568
Place of Worship	1.1999e+006	394.0566	0.0144	2.9800e-003	395.2822
Racquet Club	590720	193.9971	7.0900e-003	1.4700e-003	194.6005
Regional Shopping Center	506142	166.2210	6.0700e-003	1.2600e-003	166.7380
<b>Total</b>		<b>2,079.1380</b>	<b>0.0760</b>	<b>0.0157</b>	<b>2,085.6048</b>

### 5.3 Energy by Land Use - Electricity

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.30131e+006	427.3588	0.0156	3.2300e-003	428.6880
High Turnover (Sit Down Restaurant)	376432	123.6232	4.5200e-003	9.3000e-004	124.0077
Hotel	1.36488e+006	448.2373	0.0164	3.3900e-003	449.6315
Parking Lot	991584	325.6440	0.0119	2.4600e-003	326.6568
Place of Worship	1.1999e+006	394.0566	0.0144	2.9800e-003	395.2822
Racquet Club	590720	193.9971	7.0900e-003	1.4700e-003	194.6005
Regional Shopping Center	506142	166.2210	6.0700e-003	1.2600e-003	166.7380
<b>Total</b>		<b>2,079.1380</b>	<b>0.0760</b>	<b>0.0157</b>	<b>2,085.6048</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	0.0590	0.0590	1.6000e-004	0.0000	0.0623
Unmitigated											0.0000	0.0590	0.0590	1.6000e-004	0.0000	0.0623

## 6.2 Area by SubCategory

### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	0.0590	0.0590	1.6000e-004	0.0000	0.0623
<b>Total</b>											<b>0.0000</b>	<b>0.0590</b>	<b>0.0590</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0623</b>

### 6.2 Area by SubCategory

#### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	0.0590	0.0590	1.6000e-004	0.0000	0.0623
<b>Total</b>											<b>0.0000</b>	<b>0.0590</b>	<b>0.0590</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0623</b>

### 7.0 Water Detail

#### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	106.6270	1.2392	0.0299	141.9047
Unmitigated	106.6270	1.2394	0.0299	141.9222

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	20.706 / 12.6908	57.9510	0.6766	0.0163	77.2183
High Turnover (Sit Down Restaurant)	3.39958 / 0.216994	7.3691	0.1110	2.6600e-003	10.5257
Hotel	3.17085 / 0.352316	7.0456	0.1035	2.4900e-003	9.9904
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Place of Worship	4.06756 / 6.36208	15.8313	0.1331	3.2400e-003	19.6301
Racquet Club	3.78516 / 2.31994	10.5937	0.1237	2.9800e-003	14.1159
Regional Shopping Center	2.79994 / 1.71609	7.8364	0.0915	2.2100e-003	10.4418
<b>Total</b>		<b>106.6270</b>	<b>1.2394</b>	<b>0.0299</b>	<b>141.9222</b>

## 7.2 Water by Land Use

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	20.706 / 12.6908	57.9510	0.6765	0.0163	77.2087
High Turnover (Sit Down Restaurant)	3.39958 / 0.216994	7.3691	0.1110	2.6600e-003	10.5242
Hotel	3.17085 / 0.352316	7.0456	0.1035	2.4800e-003	9.9890
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Place of Worship	4.06756 / 6.36208	15.8313	0.1331	3.2300e-003	19.6282
Racquet Club	3.78516 / 2.31994	10.5937	0.1237	2.9800e-003	14.1142
Regional Shopping Center	2.79994 / 1.71609	7.8364	0.0915	2.2000e-003	10.4405
<b>Total</b>		<b>106.6270</b>	<b>1.2392</b>	<b>0.0299</b>	<b>141.9047</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	295.4635	17.4614	0.0000	662.1527
Unmitigated	295.4635	17.4614	0.0000	662.1527

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	108.34	21.9920	1.2997	0.0000	49.2856
High Turnover (Sit Down Restaurant)	133.28	27.0546	1.5989	0.0000	60.6312
Hotel	68.44	13.8927	0.8210	0.0000	31.1344
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Place of Worship	741	150.4163	8.8894	0.0000	337.0926
Racquet Club	364.8	74.0511	4.3763	0.0000	165.9533
Regional Shopping Center	39.69	8.0567	0.4761	0.0000	18.0556
<b>Total</b>		<b>295.4635</b>	<b>17.4614</b>	<b>0.0000</b>	<b>662.1527</b>

## 8.2 Waste by Land Use

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	108.34	21.9920	1.2997	0.0000	49.2856
High Turnover (Sit Down Restaurant)	133.28	27.0546	1.5989	0.0000	60.6312
Hotel	68.44	13.8927	0.8210	0.0000	31.1344
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Place of Worship	741	150.4163	8.8894	0.0000	337.0926
Racquet Club	364.8	74.0511	4.3763	0.0000	165.9533
Regional Shopping Center	39.69	8.0567	0.4761	0.0000	18.0556
<b>Total</b>		<b>295.4635</b>	<b>17.4614</b>	<b>0.0000</b>	<b>662.1527</b>

## 9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## 10.0 Vegetation

**Parcel 49 - GHG - BAU**  
**Placer-Sacramento County, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Arch Coating - Phase 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coating - Phase 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating - Phase 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	3	No Change	0.00
Cranes	Diesel	No Change	0	3	No Change	0.00
Excavators	Diesel	No Change	0	6	No Change	0.00
Forklifts	Diesel	No Change	0	9	No Change	0.00
Generator Sets	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	3	No Change	0.00
Pavers	Diesel	No Change	0	6	No Change	0.00
Paving Equipment	Diesel	No Change	0	6	No Change	0.00
Rollers	Diesel	No Change	0	6	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Scrapers	Diesel	No Change	0	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	19	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors							0.00000E+000	9.31938E+001	9.31938E+001	8.19000E-003	0.00000E+000	9.33658E+001
Cranes							0.00000E+000	1.64723E+002	1.64723E+002	5.12300E-002	0.00000E+000	1.65799E+002
Excavators							0.00000E+000	2.99028E+001	2.99028E+001	9.03000E-003	0.00000E+000	3.00924E+001
Forklifts							0.00000E+000	1.52906E+002	1.52906E+002	4.75600E-002	0.00000E+000	1.53905E+002
Generator Sets							0.00000E+000	2.06301E+002	2.06301E+002	1.51600E-002	0.00000E+000	2.06619E+002
Graders							0.00000E+000	1.76524E+001	1.76524E+001	5.33000E-003	0.00000E+000	1.77643E+001
Pavers							0.00000E+000	1.88390E+001	1.88390E+001	5.78000E-003	0.00000E+000	1.89604E+001
Paving Equipment							0.00000E+000	1.67284E+001	1.67284E+001	5.13000E-003	0.00000E+000	1.68361E+001
Rollers							0.00000E+000	1.09350E+001	1.09350E+001	3.35000E-003	0.00000E+000	1.10055E+001
Rubber Tired Dozers							0.00000E+000	3.78466E+001	3.78466E+001	1.13800E-002	0.00000E+000	3.80857E+001
Scrapers							0.00000E+000	8.42007E+001	8.42007E+001	2.54200E-002	0.00000E+000	8.47346E+001
Tractors/Loaders/Backhoes							0.00000E+000	2.95821E+002	2.95821E+002	9.17700E-002	0.00000E+000	2.97748E+002
Welders							0.00000E+000	6.87005E+001	6.87005E+001	1.33900E-002	0.00000E+000	6.89818E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors							0.00000E+000	9.31937E+001	9.31937E+001	8.19000E-003	0.00000E+000	9.33657E+001
Cranes							0.00000E+000	1.64723E+002	1.64723E+002	5.12300E-002	0.00000E+000	1.65799E+002
Excavators							0.00000E+000	2.99028E+001	2.99028E+001	9.03000E-003	0.00000E+000	3.00924E+001
Forklifts							0.00000E+000	1.52906E+002	1.52906E+002	4.75600E-002	0.00000E+000	1.53905E+002
Generator Sets							0.00000E+000	2.06300E+002	2.06300E+002	1.51600E-002	0.00000E+000	2.06619E+002
Graders							0.00000E+000	1.76523E+001	1.76523E+001	5.33000E-003	0.00000E+000	1.77642E+001
Pavers							0.00000E+000	1.88390E+001	1.88390E+001	5.78000E-003	0.00000E+000	1.89604E+001
Paving Equipment							0.00000E+000	1.67283E+001	1.67283E+001	5.13000E-003	0.00000E+000	1.68361E+001
Rollers							0.00000E+000	1.09350E+001	1.09350E+001	3.35000E-003	0.00000E+000	1.10055E+001
Rubber Tired Dozers							0.00000E+000	3.78466E+001	3.78466E+001	1.13800E-002	0.00000E+000	3.80856E+001
Scrapers							0.00000E+000	8.42006E+001	8.42006E+001	2.54200E-002	0.00000E+000	8.47345E+001
Tractors/Loaders/Backhoes							0.00000E+000	2.95821E+002	2.95821E+002	9.17700E-002	0.00000E+000	2.97748E+002
Welders							0.00000E+000	6.87005E+001	6.87005E+001	1.33900E-002	0.00000E+000	6.89817E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18034E-006	1.18034E-006	0.00000E+000	0.00000E+000	1.28527E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15345E-006	1.15345E-006	0.00000E+000	0.00000E+000	1.14597E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.33767E-006	1.33767E-006	0.00000E+000	0.00000E+000	9.96930E-007
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17719E-006	1.17719E-006	0.00000E+000	0.00000E+000	1.23453E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16335E-006	1.16335E-006	0.00000E+000	0.00000E+000	1.20996E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.13299E-006	1.13299E-006	0.00000E+000	0.00000E+000	1.12586E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06163E-006	1.06163E-006	0.00000E+000	0.00000E+000	1.05483E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19558E-006	1.19558E-006	0.00000E+000	0.00000E+000	1.18792E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.14491E-007	9.14491E-007	0.00000E+000	0.00000E+000	9.08638E-007
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.32112E-006	1.32112E-006	0.00000E+000	0.00000E+000	1.05026E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18764E-006	1.18764E-006	0.00000E+000	0.00000E+000	1.18016E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18315E-006	1.18315E-006	0.00000E+000	0.00000E+000	1.17549E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16447E-006	1.16447E-006	0.00000E+000	0.00000E+000	1.15973E-006

**Fugitive Dust Mitigation**

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

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

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

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Arch Coating - Phase 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coating - Phase 2	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coating - Phase 3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Arch Coating - Phase 3	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating - Phase 1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating - Phase 1	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 1	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 2	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction - Phase 3	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 1	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 2	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Grading - Phase 3	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00

Paving - Phase 1	Roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 2	Roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving - Phase 3	Roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.45	5.45	4.86	0.00	5.45
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.17	0.01
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00	0.00	0.00	
No	Land Use	Increase Diversity	0.19	0.47		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
Yes	Land Use	Increase Transit Accessibility	0.06	1.22		
No	Land Use	Integrate Below Market Rate Housing	0.00	0.00		
	Land Use	Land Use SubTotal	0.06			
No	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off-Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00	0.00		
No	Transit Improvements	Expand Transit Network	0.00	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		0.00	
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.06			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				

No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge		0.00	
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.06		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
Yes	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	100.00
Yes	Use Low VOC Paint (Residential Exterior)	100.00
Yes	Use Low VOC Paint (Non-residential Interior)	100.00
Yes	Use Low VOC Paint (Non-residential Exterior)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

**Energy Mitigation Measures**

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

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

**Water Mitigation Measures**

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

**Solid Waste Mitigation**

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	