Trip Lengths

Trip lengths for the project are likely to mainly be primary trips given the nature and location of the project. Most residents will travel to the project site as their primary trip. Although it is reasonable that the project would have reduced trip lengths, the CalEEMod default trip lengths were used to provide a "worst-case" estimate. The trip assumptions for the project are shown in Table 14.

TABLE 13:
OPERATIONAL TRIP ASSUMPTIONS

Land Use	Primary Trip %	Diverterd Trip %	Pass-By Trip %
General Light Industry	92	5	3

Source: CalEEMod

Vehicle Fleet

The vehicle fleet information is vital because it classifies vehicle traffic by individual fleets which all have individual emission rates. The CalEEMod default fleet mix, District recommendation for Urban projects are shown in Table 15. The CalEEMod defaults for the vehicle fleet were used for this analysis.

TABLE 14:
VEHICLE FLEET MIX COMPARISON

Type of Vehicle	CalEEMod Default Fleet Mix %
Light Duty Automobile (LDA)	40.1351
Light Duty Truck (LTD1)	11.4567
Light Duty Truck (LTD2)	19.1273
Medium Duty Vehicle (MDV)	10.8577
Light-Heavy Duty Truck (LHDT1)	2.4306
Light-Heavy Duty Truck (LHDT2)	0.8283
Medium-Heavy Truck (MHDT)	1.9186
Heavy-Heavy Truck (HHDT)	11.5582

Source: CalEEMod

Emission Factors

The emission factors are the CalEEMod defaults, which use EMFAC2007 emission factors. For the business as usual case, emission factors for 2005 were used. For the 2020 scenario, emissions for the year 2020 were used. The emission factors for 2020 take into account the Pavley and Low Carbon Fuel Standard regulations. Control measures will include the following:

Natural Gas

Natural gas emissions refer to the emissions that occur when natural gas is combusted on the project site for heating water, space heating, or other uses. There was no reduction attributed to the 2020 scenario for this category. The CalEEMod defaults were used and are as follows:

- Title- 24 Natural Gas Energy Intensity: 48,030.17 KBTU/size/year
- Nontitle-24 Natural Gas Energy Intensity: 9,370.40 KBTU/size/year

Electricity

Electricity refers to the GHG emissions generated by offsite power plants to supply the electricity required for the project. The Electricity and Commercial/Residential Energy sector is the second largest contributor with over 30 percent of the statewide greenhouse gas emissions. Although electricity imported into California accounts for only about a quarter of our electricity, imports contribute more than half of the greenhouse gas emissions from electricity because much of the imported electricity is generated at coal-fired power plants

Southern California Edison (SCE) would supply electricity for the project. For the business as usual case, the CalEEMod defaults for electricity emission factors for SCE were used, which represents emission factors in 2006. SCE has 16 percent renewable energy in its portfolio in 2006 (CEC 2007).

Therefore, to achieve a 33-percent reduction as required by California's Renewable Electricity Standard, 17 percent more renewable energy in the utility's portfolio is needed. In 2020, the utility will achieve 33 percent renewable energy, which would decrease the emissions associated with electricity by 17 percent.

The CalEEMod defaults for energy intensity were used for the business as usual emissions estimates:

- Light Energy Intensity: 0.84 KWhr/size/year
- Title- 24 Electrical Energy Intensity: 0.49 KBTU/size/year
- Nontitle-24 Electrical Energy Intensity: 1.31 KBTU/size/year

Water Transport & Waste

There would be greenhouse gas emissions generated from the electricity required to transport and treat the water to be used on the project site. The proposed water use for the project is 2,000 gallons per day for outdoor irrigation, 800 gallons per day for indoor office use, and 1,200 gallons per day for plant usage operating 150 days a year. This equates 121,600 gallons and 182,400 gallons per year, respectively.

There will be greenhouse gas emissions from the domestic waste generated by the project. The default waste generation rates from CalEEMod were used in this analysis.

SECTION 4: THRESHOLDS OF SIGNIFICANCE

4.1 THRESHOLDS

Generally, the evaluation of an impact under CEQA requires measuring data from a project against a "threshold of significance." The Office of Planning and Research's amendments to the CEQA Guidelines states that "[w]hen adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence." According to the CEQA Guidelines' Appendix G Environmental Checklist, to determine whether GHG emission impacts are significant environmental effects, the following questions are analyzed and evaluated. Would the project:

A) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?
B) Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?

The CEQA Guidelines amendments do not identify a threshold of significance for GHG emissions, nor does it prescribe assessment methodologies or specific mitigation measures. Instead, it calls for a "good faith effort, based on available information, to describe, calculate or estimate the amount of GHG emissions resulting from a project."

The CEQA Guidelines amendments for GHG emissions state that a lead agency may take into account the following three considerations in assessing the significance of impacts from GHG emissions.

Consideration No. 1: The extent to which the project may increase or reduce GHG emissions compared with the existing environmental setting. This discussion could involve a quantification of GHG emissions to the extent feasible.

Consideration No. 2: Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.

Consideration No. 3: The extent to which the project complies with regulations or requirements adopted to implement a statewide regional, or local plan for the reduction or mitigation of GHG emissions. Such regulations or requirements must be adopted by the relevant public agency through a public review process and must include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable notwithstanding compliance with the adopted regulations or requirements, and EIR must be prepared for the project.

4.2 THRESHOLDS OF SIGNIFICANCE

In accordance with the District's guidance for addressing greenhouse gas emission impact for new projects under CEQA, a project would be considered to have a less than significant individual and cumulative impact on climate change if it were to do at least one of the following:

- Exempt from the requirements of CEQA, or

- Comply with an approved GHG emissions reduction plan or GHG mitigation program, which avoids or substantially reduces GHG emissions within the geographic area in which the project is located. Such plans or program must be specified in law or approved by the lead agency with jurisdiction over the affected resource and supported by a CEQA complaint environmental review document adopted by the lead agency, or

- Implement approved best performance standards, or

- Quantify project GHG emissions and reduce those emissions by at least 29 percent compared to business as usual. "Business as usual" is referred in ARB's AB 32 Scoping Plan as emissions occurring in 2020 levels without additional control. Therefore, 2002-2004 emissions factors, on a unit of activity basis, multiplied by the activity expected to occur in 2020, is an appropriate representation of 2020 business as usual. The reductions can be based on any combination of reduction measures, including GHG reductions achieved as a result of changes in building and appliance standards occurring since 2002-2004 baseline period.

After project analysis it has been determined that it is not exempt from CEQA and there is not an approved GHG emissions reduction plan or GHG mitigation plan for the area where the project is located. The Scoping Plan prepared pursuant to AB 32 demonstrates how California would reduce GHG emissions to 1990 levels by the year 2020. However, most of the measures in the Scoping Plan are not applicable to the project. There are no approved best performance standards that would apply to the project. Therefore, the approach used in this analysis is to quantify GHG emissions and reduce the emissions by at least 29 percent compared to business as usual.

SECTION 5: IMPACT ANALYSIS

Through the examination of the proposed project we have examined several categories of GHG emissions and developed an understanding of the project and its projected impact on GHG emissions. The impact analysis will provide a detailed explanation of the projects GHG Emission, by combining all categories and examine any conflicting encounters, in regards to City Plans, State/Federal Policy and Existing Regulations.

5.1 IMPACT 1: GREENHOUSE GAS EMISSIONS

Impact GHG-1:	Although the project would generate greenhouse gas emissions, the emissions would not have a significant impact on the environment

While the project will generate greenhouse gas emissions, the emissions would not have a significant impact on the environment. In evaluating the project it has been pre-established that while the District has established a menu of performance standards, some of which depend on the existence of an adopted climate action plan or the establishment of Best Performance Standards, the City of Visalia has yet to implement either of these.

Being that neither a Climate Action Plan nor Best Performance Standards has been established the project will assume the following measurement threshold provided by the District: whether the project will reduce or mitigate greenhouse gas levels by 29 percent from business-as-usual levels. To determine the following statement the report will first establish business as usual activities and then incorporate emissions that would occur when all project related design features are implemented, and when compliance with new regulatory measures is assumed.

Construction

Greenhouse gas emissions, generated during construction, would include activities such as site preparation, grading, the construction of the asphalt plant, storm pond, etc. These activities are representing in Table 16 in greater detail along with the estimated onsite and office million metric tons of carbon dioxide equivalent (MTCO2e). The District does not have a recommendation for assessing the significance to construction-related emissions. Construction activities occurring before 2020, the year when the State is required to reduce its GHG emissions to 1990 levels, are therefore considered less than significant.

TABLE 15: CONSTRUCTION GREENHOUSE GAS EMISSIONS (2014-2020)			
	Onsite Total CO2 (MT/year)	Offsite Total C02(MT/per year)	Total CO2 (MT/per year)
Grading 2014	14.51	0.30	14.81
Machine Installation 2014	29.80	4.95	34.75
Storm Pond Construction 2014	3.83	0.37	4.20
Modular Installation 2014	34.81	34.35	68.16
Paving 2014	11.91	0.00	11.91
Landscape Planting 2014	113.83	6.40	120.23
Total	*208.69*	*46.39*	*255.06*

Source: CalEEMod (Appendix A)

The project is able to benefit from the following mitigation measures during construction of the project:

- Water Exposed Area
- Reduced Vehicle Speed on Unpaved Roads
- Improved Pedestrian Network

Operation

Expected operational or long-term emissions expected over the lifetime of the project include mobile operations, waste generated, water consumed, and energy consumed. Sourced of operation emissions are represented in Table 17. As represented in Table 11, mitigation and regulation required to reduce business as usual emissions beyond 29 percent by 2020 to remain compliant with the States requirement to reduce GHG emissions to 1990 levels.

TABLE 16: PROJECT OPERATIONAL GREENHOUSE GASES			
Source	Business as Usual ($MTCO2_e$)	2020 (with Regulation) $MTCO2_e$ per year	2020 (with Regulation and Standard Measures) $MTCO2_e$ per year
Energy	816.78	595.14	595.14
Mobile	4,577.65	3,855.09	2,509.56
Waste	5,638.21	2,819.10	2,819.10
Water	3,720.97	3,508.13	3,720.97
Total	*14,753.64*	*10,777.46*	*9,725.93*
	Reduction	*26.7%*	*34.6%*
	Significant Threshold	*29%*	*29%*
Are emissions significant after mitigation, project design features and regulations?		*Yes*	*No*

Source: CalEEMod

The business as usual emissions represents emission in terms as if they would have occurred without regulations enacted pursuant to AB 32.

Operational GHG emissions are projected to exceed a 29 percent reduction in emissions by 2020, through implementing the following operational changes:

- Energy: Warm Mix Asphalt with premium efficiency electric motors and exhaust fan operated with a variable frequency speed control. (17.2 percent Emission Reduction Relative to Baseline Emissions)
- Energy: Energy efficient light-bulbs will be incorporated to the project to reduce electrical use. Along with this the project is a user of Southern California Edison which has 16 percent renewable energy in its portfolio in 2006 (CEC 2007). Therefore, to achieve a 33-percent reduction as required by California's Renewable Electricity Standard, 17 percent more renewable energy in the utility's portfolio is needed. In 2020, the utility will achieve 33 percent renewable energy, which would decrease the emissions associated with electricity by 17 percent.
- Waste: The project will participate in the Cities recycle and waste reduction program which has seen an average waste reduction of 50%.
- Water: Low flow faucets, toilets and urinals will be incorporated. Along with a water efficient irrigation system for landscaped areas.
- Traffic: The project will increase density, improve walkability, improve destination accessibility through increase transit accessibility and overall improve the pedestrian network. Therefore reducing the number of vehicles used to travel to the project location and reducing GHG emissions.

The project is able to benefit from the following mitigation measures during the lifelong operation of the project:

- Improved Destination Accessibility: The project is located within five miles of downtown Visalia.
- Improved Walkability Design: The project is located in an area that includes multiple restaurants, stores and other desirable locations
- Improved Transit Access: The project is located less than 500 yards from an existing transit stop.
- Installation of Low Flow Bathroom Fixtures: Both low flow bathroom faucets and low flow toilets will be installed within the project site to ensure a reduced quantity of water.
- Turf Reduction: Landscape design will incorporating the use of drought resistant plants in place of excess turf. Turf reductions reduces water consumption, saved energy by requiring less lawn maintenance, creates less yard waste, reduces the amount of herbicides commonly used, and enhances biodiversity through varied planting which offers shelter and feeding opportunities for wildlife.
- Use of Electric Yard Tools: The projects landscape maintenance will incorporate the use of an electric lawnmower, leaf blower, chainsaw.
- Use of Low VOC Pain- Low VOC paint will be used on both the non-residential interior and exterior of the project site.
- Water Efficient Landscaping: To ensure a reduction in water used for project landscaping and maintenance a water efficient irrigation system and water efficient landscaping will be incorporated as part of the project.

These above measures are represented in CalEEMod as mitigation measures. Reductions from these measures are calculated by CalEEmod and are based on the methodology presented in the California Air Pollution control Officer's 2010 report, "Quantifying Greenhouse Gas Mitigation Measure's." Table 18 shows the percentage reduction calculated by CalEEmod for the new regulations and standards.

TABLE 17: GREENHOUSE GAS REDUCTIONS		
Measures	**Category**	**Percent reduction**
Pavely and Low Carbon Fuel Standards	Mobile Sources	27%
Electricity – Renewable Portfolio Standards	Energy: Electricity	17%
Title 24 Standards	Energy: Electricity and Natural Gas	14.3%
Locational and Standard Measures	Mobile Sources	13.5%

Source: CalEEMod

Collectively these measures together accounts for a 46.1% reduction in GHG emissions from the projects previous Business as Usual emissions. The percent reduction achieves the recommended threshold established by the SSJVAPCD to find GHG emissions less than cumulatively significant. Therefore the project is considered less than significant impact.

5.2 IMPACT 2: CONFLICT WITH THE CITY PLAN, STATE/FEDERAL POLICY AND EXISTING REGULATION

Impact GHG-2:	The project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases.

Currently, the City of Visalia has yet to implement a Greenhouse Gas Reduction Plan or set any regulations regarding GHG emissions. As discussed in Impact 1, the project will remain consistent with the SSJVAQCB GHG reduction of 29 percent by 2020. This minimum reduction from the projects Business As Usual ensures that the project is meeting all Regional Guidance.

Therefore, the project will not conflict with any applicable City Plan, State/ Federal Policy or Existing Regulations.

Being that there is no local or regional plan the project will be held to standards from both the SJVAPCD's recommendations in its guidance for addressing GHGs in CEQA (SJVAPCD 2009) and compliance with the Scoping Plan designated in Assembly Bill (AB) 32.
As previously discussed throughout the report SJVAPCD guidance supports a minimum 29 percent reduction from business as usual, the same reduction the State of California is required to meet by 2020, in order to stay compliant under their standards. Impact one analyzed this reduction and established that the project would meet the 29 percent reduction and emissions created from the project would not have a significant impact on the project.

The California State Legislature enacted AB 32, the California Global Warming Solutions Act of 2006. In regards to remaining compliant under the Scoping Plan established under AB 32, which is concurrently the state legislation which requires for GHGs emitted in California to be reduced to 1990 levels by 2020. AB 32 is monitored and regulated by ARB.

In December 2008, ARB adopted the Climate Change Scoping Plan. The AB 32 Scoping Plan contains the main strategies California will use to reduce the GHG that cause climate change. The scoping plan represents a range of GHG reduction actions which include direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, market-based mechanisms such as a cap-and-trade system, and an AB 32 program implementation regulation to fund the program. As stated in the Scoping Plan, the key elements of the strategy for achieving a 29 percent reduction by 2020 include:

- Expanding and strengthening existing energy efficiency programs as well as building and appliance standards;
- Achieving a statewide renewable energy mix of 33 percent;
- Developing a California cap-and-trade program that links with other Western Climate Initiative partner programs to create a regional market system;
- Establishing targets for transportation-related GHG emissions for regions throughout California and pursuing policies and incentives to achieve those targets;
- Adopting and implementing measures to existing State laws and policies including California's clean car standards, goods movement measures, and the Low Carbon Fuel Standards; and
- Creating target fees, including a public goods charge on water use, fees on high global warming potential gases, and a fee to fund the administrative costs of the State's long-term commitment to AB 32 implementation.

The Scoping Plan established eighteen types of measures to help pave the path toward California's clean energy future. As shown in Table 19 the project is consistent with measures established through the Scoping Plan.

TABLE 18:
SCOPING PLAN REDUCTION MEASURES

Scoping Plan Reduction Measure	Recommended Action
1. California Cap- 1. California Cap---and----Trade Program Linked to Trade Program Linked to Trade Program Linked to Western Climate Initiative Partner Jurisdictions Western Climate Initiative Partner Jurisdictions Implement a broad-based California cap-and-trade program to provide a firm limit on emissions. Link the California cap–and-trade program with other Western Climate Initiative Partner programs to create a regional market system to achieve greater environmental and economic benefits for California.	The projects can generate offsets, verifiable reductions of emissions whose ownership can be transferred to others. Offsets can provide regulated entities a source of low-cost emissions reductions. Reductions from compliance offset projects must be quantified using rigorous measurement and enforcement protocols that provide a basis to determine whether the reductions are also additional.
2. California Light- 2. California Light---Duty Vehicle Duty Vehicle Duty Vehicle Greenhouse Gas Standards Greenhouse Gas Standards Greenhouse Gas Standards Implement adopted Pavley standards and planned second phase of the program. Align zero-emission vehicle,	Include reducing greenhouse gas emissions from vehicles, reducing the carbon content of the fuel these vehicles burn, and reducing the miles these vehicles travel. While the project is centrally located and could help reduce mileages, however this is not applicable to

alternative and renewable fuel and vehicle technology programs with long-term climate change goals.	the project.
3. Energy Efficiency Maximize energy efficiency building and appliance standards, and pursue additional efficiency efforts including new technologies, and new policy and implementation mechanisms. Pursue comparable investment in energy efficiency from all retail providers of electricity in California (including both investor-owned and publicly owned utilities).	This measure would set new targets for statewide annual energy demand reductions; however the project design features multiple energy efficient products and features.
4. Renewables Portfolio Standard 4. Renewables Portfolio Standard Achieve 33 percent renewable energy mix statewide.	The project will work with SCE in its efforts to diversify its power supply.
5. Low Carbon Fuel Standard Develop and adopt the Low Carbon Fuel Standard	This measures is applicable to the project because it is a state initiative however, it would applicable to the fuel used for vehicles to travel to and from their home.
6. Regional Transportation Regional Transportation-Related Greenhouse Gas Targets. Develop regional greenhouse gas emissions reduction targets for passenger vehicles.	This measure is not applicable to the project being that they will not be developing any Greenhouse Gas reductions.
7. Vehicle Efficiency Measures. Implement light-duty vehicle efficiency measures.	Could reduce light-duty greenhouse gas emissions from light-duty vehicles that enter the project site.
8. Goods Movement. Implement adopted regulations for the use of shore power for ships at berth. Improve efficiency in goods movement activities.	This measure is not applicable to the project being that that is does not propose the use of shore power for ships or to improve good movement activities.
9. Million Solar Roofs Program. Install 3,000 MW of solar-electric capacity under California's existing solar programs.	This measure is not applicable to the project being that it does not plan to implement any solar power into the design of the project building.
10. Medium/Heavy-Duty Vehicles. Adopt medium and heavy-duty vehicle efficiency measures.	This measure is not applicable to the project being that it is a statewide measure. However, it would be applicable to vehicles that enter the project site.
11. Industrial Emissions. Require assessment of large industrial sources to determine whether individual sources within a facility can cost-effectively reduce greenhouse gas emissions and provide other pollution reduction co-benefits. Reduce greenhouse gas emissions from fugitive emissions from oil and gas extraction and gas transmission. Adopt and implement regulations to control fugitive methane emissions and reduce flaring at refineries.	This measure is not applicable to the project being that this measure would apply to the direct greenhouse gas emissions at major industrial Facilities, which the proposed project is not.
12. High Speed rail. Support implementation of a high speed rail system.	This measure is not applicable to the project being that it is a statewide measure.
13. Green Building Strategy. Expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings	The project will be implementing Green Building Strategies into their design along with using water wise landscape design and a bioswale to inhabit wildlife.
14. High Global Warming Potential Gases. Adopt measures to reduce high global warming potential gases.	This measure will be applicable when initiated being that the project will produce Global Warming Potential Gases through items such as Motor Vehicles traveling to and

	from their homes, Air Conditioning system, and Refrigerant Emissions.
15. Recycling and Waste Reduce methane emissions at landfills. Increase waste diversion, composting and other beneficial uses of organic materials, and mandate commercial recycling. Move toward zero-waste.	The project is will be participating in the City of Visalia's Recycling program.
16. Sustainable Forests Preserve forest sequestration and encourage the use of forest biomass for sustainable energy generation	This measure is not applicable being that the project is located in an urban area where forest do not pre-exist.
17. Water. Continue efficiency programs and use cleaner energy sources to move and treat water.	The project meets this measure by installing low flow toilets and water efficient faucets. Along with this they have also incorporated efficient landscape irrigation practices and design.
18. Agriculture. Encourage investment in manure digesters and at the five-year Scoping Plan update determine if the program should be made mandatory by 2020.	This measure is not applicable being that no agriculture activities will be occurring at or near the project site.

Source of ARB Scoping Plan Reduction Measures: California Air Board 2008

Through examination of all eighteen AB 32 Scoping Plan Reduction Measures is can be confirmed that no Reduction measures are being neglecting or conflicting

After examination of all eighteen Scoping Reduction Measures it can be confirmed that the construction of this project will not neglect or conflict with any of the SSJVAPCB or AB 32 requirements. Therefore before mitigation measures the project is designated as a less than significant impact and no mitigation measure are required.

SUMMARY

The project is expected to generate GHG emissions in the short-term as a result of the construction of a residential building within the City of Visalia and long-term as a result of day-to-day operations of the proposed Single-Family and Multi-Family Subdivision. Estimates GHG emissions calculations are contained within the CalEEMod report, Appendix A.

Taking into account the proposed project's emissions, project design features, standard measures and the progress being made by the State towards reducing emissions in key sectors such as transportation, industry, and electricity, the project assists in the states goals of reducing greenhouse gas emission to 1990 levels by 2020 and an 80-percent reduction below 1990 to 2050.

Through the assessment of both short-term and long-term emissions it is our conclusion that the construction of Sunnyview yard in Visalia, CA will assist in the states attainment of their ultimate emissions reduction goal.

REFERENCES

The following references were used in the preparation of this analysis and are referenced in the text and/or were used to provide the author with background information necessary for the preparation of thresholds and content.

AB 32	State of California. August 31, 2006. Assembly Bill No. 32. Website: www.arb.ca.gov/cc/docs/ab32text.pdf. Accessed September 11, 2012
AG 2010	Office of the California Attorney General. Addressing Climate Change at the Project Level. Updated January 6, 2010. Website: http://ag.ca.gov/globalwarming/pdf/GW_mitigation_measures.pdf. Accessed September 13, 12012
ARB 2007a	California Air Resources Board. Expanded List of Early Action Measures to Reduce Greenhouse Gas Emissions in California Recommended for Board Consideration. October 2007. Website: www.arb.ca.gov/cc/ccea/meetings/ea_final_report.pdf. Accessed September 13, 1012.
ARB 2007b	California Air Resources Board. Staff Report. California 1990 Greenhouse Gas Level and 2020 Emissions Limit. November 16, 2007. Website: www.arb.ca.gov/cc/inventory/pubs/reports/staff_report_1990_level.pdf. Accessed September 17, 2012
ARB 2008	California Air Resources Board. Climate Change Scoping Plan, a framework for change. December 2008. Website: www.arb.ca.gov/cc/scopingplan/document/scopingplandocument.htm. Accessed September 13, 2012
ARB 2009	California Air Resources Board. Greenhouse Gas Inventory Data – Graphs. Website: www.arb.ca.gov/cc.inventory/data/graph/graph.htm. Accessed September 17, 1012
CA 2005	State of California, Executive Order S-3-05. June 1, 2005. Website: www.dot.ca.gov/hq/energy/ExecOrderS-3-05.htm. Accessed September 17, 2012
CalEEMod	California Emissions Estimator Model. Version 2011.1.1. Website: http://caleemod.com/. Accessed September 12, 2012
CAPCOA 2008	California Air Pollution Control Officers Association. January 2008. CEQA & Climate Change, Evaluating and Addressing Greenhouse Gas Emissions from Projects Subject to the California Environmental Quality Act. www.capcoa.org/. Accessed September 13, 2012
CAPCOA 2010	California Air Pollution Control Officers Association. Quantifying Greenhouse Gas Mitigation Measures. August 2010. Website: www.capcoa.org/wp-content/uploads/2010/09/CAPCOA-Quantifications-Report-9-14-Final.pdf. Accessed September 13, 1012
CAT 2006	State of California, Environmental Protection Agency, Climate Action Team. March 2006. Climate Action Team Report to Governor Schwarzenegger and the California Legislature. Website: www.climatechange.ca.gov/climate_action_team/reports/index.html. Accessed September 13, 2012
CC 2006	Clean Air, Cool Planet. A Consumer's Guide to Retail Carbon Offset Providers. 2006. Website: www.cleanair-coolplanet.org/ConsumersGuidetoCarbonOffsets.pdf. Accessed January 20, 2010
CCC2006	California Climate Change Center. Our Changing Climate, Assessing the Risks to California: A Summary Report from the California Climate Change Center. July 2006.

CEC-500-2006-077. Website: www.climatechange.ca.gov/publications/biennial_reports/index.html. Accessed January 7, 2010

CEC 2006a California Energy Commission. Inventory of California Greenhouse Gas Emissions and Sinks: 1990 to 2004 Staff Report Publication #CEC-600-2006-013. Website: www.climatechange.ca.gov/inventory/index.html. Accessed August 11, 2009.

CEC 2006b California Energy Commission. Net System Power. A Small Share of California's Power Mix in 2005. Publication # CEC 300-2006-009-F, April 2006. Website: http://www.energy.ca.gov/sb1305/documents/index.html. Accessed September 13, 2012

CNRA 2009 California Natural Resources Agency. 200*9 California Climate Adaptation Strategy. Website: www.climatechange.ca.gov/adaptation/.

EPA 2003 U.S. Environmental Protection Agency, Office of Air and Radiation. June 2003. Ozone: Good up high bad nearby. EPA-451-5-03-001. Website: www.epa.gov/air/ozonepollution.pdfs/ozonegb.pdf. Accessed January 20, 2010

EPA 2006a U.S. Environmental Protection Agency, Office of Atmospheric Programs. April 2006. The U.S. Inventory of Greenhouse Gas Emissions and Sinks: Fast Facts. Website: http://epa.gov.climatechnage/emissions/downloads06/06FastFacts.pdf. Accessed January 20, 2010

EPA 2006b U.S. Environmental Protection Agency. Last updated October 19, 2006. High Global Warming Potential Gases. Science. Website: www.epa.gov/highgwp/scientific.html. Accessed January 20, 2010.

EPA 2007 U.S. Environmental Protection Agency. Inventory U.S. Greenhouse Gas Emissions and Sinks: 1990-2005. Executive Summary. April 2007. USEPA #430-R-07-002. Website: www.epa.gov/climatechange/emissions/usgginv_archive.html. Accessed January 20, 2010.

EPA 2008 U.S. Environmental Protection Agency. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2006. April 2008. USEPA #430-R-08-005. Website: www.epa.gov/climatechange/emissions/usginv_archive.html. Accessed January 20, 2010.

EPA 2009 U.S. Environmental Protection Agency. February 2009. Potential for Reducing Greenhouse Gas Emissions in the Construction Sector. Website: www.epa.gov/sectors/pdf/construction-sector-report.pdf. Accessed January 20, 2010.

EPA 2011 U.S. Environmental Protection Agency. 2001. 2001 U.S. Greenhouse Gas Inventory Report. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2009. EPA 430-11-005. Website: www.epa.gov/climatechange/emissions/usinventoryreport.html. Accessed September 12, 2012.

EUETS 2007 European Union Against Climate Change, EU Emission Trading: an Open System Promoting Global Innovation. 2007. Website: http://ec.europa.eu/environment/climat/pdf/bali/eu_action.pdf. Accessed January 20, 2010.

IPEC 2004 Intergovernmental Panel on Climate Change. 2004. 16 years of Scientific Assessment in Support of the Climate Convention. December 2004. Website: www.ipcc.ch.pdf/10th-anniversary/anniversary-brochure.pdf. Accessed January 20, 2010.

IPCC 2007 Intergovernmental Panel on Climate Change. Climate Change 2007: The Physical Science Basis. Contribution of Working Group 1 to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change. [Solomon, S., D. Qin, , M. Manning, Z. Chen, M. Marquis, K.B. Averyt, M. Tignor and H.L. Miller (eds.)]. Cambridge

University Press, Cambridge, United Kingdom and New York, NY, USA. Website: www.ipcc.ch/publications_and_data/publications_ipcc_fourth_assessment_report_wg1_report_the_physical_science_basis.htm. Accessed January 7, 2010.

MAC 2007 Market Advisory Committee for the California Air Resources Board. Recommendations for Designing a Greenhouse Gas Cap-and-Trade System for California. June 30, 2007. Website: www.energy.ca.gov/2007publications/ARB-1000-2007-007/ARB-1000-2007-007.PDF. Accessed January 20, 2010.

Moser et al. 2009 Moser, Susie, Guido, Franco, Sara Pittiglio, Wendy Chou, Dan Cayan. 2009. The Future Is Now: An Update on Climate Change Science Impacts Response Options For California. California Energy Commission. PIER Energy-Related Environmental Research Program. CEC-500-2008-071. Website: www.energy.ca.gov/2008publications/CEC-500-2008-071/CEC-500-2008-071.PDF. Accessed January 7, 2010.

NIOSH 2005 Department of Health and Human Services, Centers for Disease Control & Prevention, the National Institute for Occupational Safety and Health. Carbon Dioxide. September 2005. Website: www.cdc.gov/niosh/npg/npgd0103.html. Accessed January 20, 2010

NRC 2005 National Research Council of the National Academies, Climate Research Committee, Board On Atmospheric Sciences and Climate, Committee on Radiative Forcing Effects on Climate. Radiative Forcing of Climate Change: Expanding the Concept and Addressing Uncertainties. The National Academies Press, Washington, D.C. Available for purchase online.

OPR 2008 Governor's Office of Planning and Research. Technical Advisory. CEQA and Climate Change: Addressing Climate Change Through California Environmental Quality Act (CEQA) Review. June 19, 2008. Website: www.opr.ca.gov/ceqa/pdfs/june08-ceqa.pdf. Accessed January 20, 2010

OPR 2009 Letter to the Natural Resources Agency from the Governor's Office of Planning and Research, April 13, 2009, Regarding CEQA Guidelines, Sections Proposed to be Added or Amended. Websites: www.opr.ca.gov/ceqa/pdfs/Transmittal_Letter.pdf and www.opr.ca.gov/ceqa/pdfs/PA_CEQA_Guidelines.pdf. Accessed January 20, 2010

OSHA 2003 United States Department of Labor, Occupational Safety and Health Administration. Safety and Health Topics: Methane. Website: www.osha.gov/dts/chemicalsampling/data/CH_250700.html. Accessed January 20, 2010.

RGGI 2010 Regional Greenhouse Gas Initiative. Website: www.rggi.org. Accessed January 20, 2010.

SB 97 California Senate Bill 97. Passes August 21, 2007. Website: http://info.sen.ca.gov/pub/07-08/bill/sen/sb_0051-0100/sb_97_bill_20070821_enrolled.pdf. Accessed December 7, 2010.

SJVAPCD 2009a San Joaquin Valley Air Pollution Control District. 2009. Guidance for Valley Land-use Agencies in Addressing GHG Emission Impact for New Projects under CEQA. Website: http://www.valleyair.org/Programs/CCAP/12-17-09/3%20CCAP%20-%20FINAL%20LU%20Guidance%20-%20Dec%2017%202009.pdf. Accessed December 17, 2010.

SJVAPCD 2009b San Joaquin Valley Air Pollution Control District. 2009. SJVAPCD Accepted URBEMIS Default Values. Website: www.valleyair.org/ISR/Documents/Accepted%20URBEMIS%20default%20values%20012909.xls. Accessed September 12, 2012

SJVAPCD 2012 San Joaquin Valley Air Pollution Control District. 2012. GHG Emission Reduction

Measures for Development Projects. Website: www.Valleyair.org/Programs/CCAP/ghg/ghg_idx.htm. Accessed September 12, 2012.

UNFCCC 2006 United Nations Framework Convention on Climate Change. 2006. Greenhouse Gas Emissions Data, Predefined Queries, Annex I Parties – greenhouse gas total without LULUCF (land use, land-use change, and forestry). Website: http://unfccc.int/ghg_emissions_data/predefined_queries/items/3841.php. Accessed August 11, 2009.

UNFCCC 2010 United Nations Framework Convention on Climate Change. Essential Background. Website: http://unfcc.int/essential_background/convention/items/2627.php. Accessed January 20, 2010.

WCI 2009 Western Climate Initiative. 2009. Designing the Program. Website: www.westernclimateinitiative.org/designing-the-program. Accessed January 20, 2010.

Visalia 1963 City of Visalia, 1963. Visalia General Plan (updated in 1976 and 1991)

Visalia 2003 City of Visalia, 2003. Visalia Waterways and Trails Master Plan.

Visalia 2006 City of Visalia, 2006. Visalia Bikeway Plan Update.

Visalia 2010 City of Visalia, 2009. Visalia Climate Action Plan (Preliminary draft May 2010)

Visalia 2012 City of Visalia, 2012. Visalia General Plan Draft Elements Part 2. Website: http://www.visaliageneralplanupdate.com/reports.html. Accessed September 17, 2012

APPENDIX A

CALEEMOD REPORT

Sunnyview Yard

San Joaquin Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	477.42	1000sqft	10.96	477,417.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	45
Climate Zone	7			**Operational Year**	2014
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	641.26	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.011

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Full construction will not be occuring on the site. Exisitng Machinery from an existing site will be transported and installed at the proposed location. The project building will merely consist of a 1,600 S.F. Modular Building.

Off-road Equipment - No Paving equipment is necessary for landscape planting.

Trips and VMT - The paving required for the project will be provided from te on-site asphalt plant and will eliminate trips that would have otherwide been required.

Road Dust -

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
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tblConstructionPhase	NumDays	10.00	4.00
tblConstructionPhase	NumDays	10.00	13.00
tblLandUse	LandUseSquareFeet	477,420.00	477,417.00
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tblOffRoadEquipment	HorsePower	226.00	208.00
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tblOffRoadEquipment	UsageHours	7.00	8.00
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tblProjectCharacteristics	N2OIntensityFactor	0.006	0.011
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tblSequestration	NumberOfNewTrees	0.00	130.00
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tblVehicleEF	LDT2	0.43	0.53
tblVehicleEF	LDT2	0.04	0.01
tblVehicleEF	LDT2	2.1710e-003	0.02
tblVehicleEF	LDT2	3.4930e-003	0.01
tblVehicleEF	LDT2	0.02	5.4000e-003
tblVehicleEF	LDT2	1.9700e-003	0.02

tblVehicleEF	LDT2	3.1710e-003	0.01
tblVehicleEF	LDT2	0.12	0.15
tblVehicleEF	LDT2	0.21	0.20
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.69	0.15
tblVehicleEF	LDT2	0.38	0.49
tblVehicleEF	LDT2	4.7410e-003	4.4000e-003
tblVehicleEF	LDT2	1.0880e-003	1.0000e-003
tblVehicleEF	LDT2	0.12	0.15
tblVehicleEF	LDT2	0.21	0.20
tblVehicleEF	LDT2	0.08	0.08
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.69	0.15
tblVehicleEF	LDT2	0.40	0.52
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.54	3.14
tblVehicleEF	LDT2	3.60	4.48
tblVehicleEF	LDT2	0.16	0.19
tblVehicleEF	LDT2	0.25	0.32
tblVehicleEF	LDT2	0.39	0.48
tblVehicleEF	LDT2	0.04	0.01
tblVehicleEF	LDT2	2.1710e-003	0.02
tblVehicleEF	LDT2	3.4930e-003	0.01
tblVehicleEF	LDT2	0.02	5.4000e-003
tblVehicleEF	LDT2	1.9700e-003	0.02
tblVehicleEF	LDT2	3.1710e-003	0.01

tblVehicleEF	LDT2	0.29	0.36
tblVehicleEF	LDT2	0.27	0.27
tblVehicleEF	LDT2	0.18	0.22
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.67	0.14
tblVehicleEF	LDT2	0.31	0.38
tblVehicleEF	LDT2	5.2070e-003	4.9000e-003
tblVehicleEF	LDT2	1.0680e-003	9.0000e-004
tblVehicleEF	LDT2	0.29	0.36
tblVehicleEF	LDT2	0.27	0.27
tblVehicleEF	LDT2	0.18	0.22
tblVehicleEF	LDT2	0.09	0.11
tblVehicleEF	LDT2	0.67	0.14
tblVehicleEF	LDT2	0.33	0.41
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	2.03	2.48
tblVehicleEF	LDT2	6.16	7.36
tblVehicleEF	LDT2	0.16	0.19
tblVehicleEF	LDT2	0.30	0.35
tblVehicleEF	LDT2	0.47	0.57
tblVehicleEF	LDT2	0.04	0.01
tblVehicleEF	LDT2	2.1710e-003	0.02
tblVehicleEF	LDT2	3.4930e-003	0.01
tblVehicleEF	LDT2	0.02	5.4000e-003
tblVehicleEF	LDT2	1.9700e-003	0.02
tblVehicleEF	LDT2	3.1710e-003	0.01
tblVehicleEF	LDT2	0.03	0.09

tblVehicleEF	LDT2	0.21	0.22
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.83	0.18
tblVehicleEF	LDT2	0.46	0.55
tblVehicleEF	LDT2	4.5680e-003	4.2000e-003
tblVehicleEF	LDT2	1.1130e-003	1.0000e-003
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tblVehicleEF	LDT2	0.21	0.22
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	0.83	0.18
tblVehicleEF	LDT2	0.50	0.59
tblVehicleEF	LHD1	1.1240e-003	1.4000e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.20
tblVehicleEF	LHD1	2.47	2.61
tblVehicleEF	LHD1	4.95	5.20
tblVehicleEF	LHD1	0.05	0.02
tblVehicleEF	LHD1	0.08	0.02
tblVehicleEF	LHD1	2.08	1.17
tblVehicleEF	LHD1	1.18	1.44
tblVehicleEF	LHD1	8.7700e-004	2.0000e-004
tblVehicleEF	LHD1	0.05	0.01
tblVehicleEF	LHD1	9.6710e-003	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2570e-003	1.8000e-003

tblVehicleEF	LHD1	8.0600e-004	2.0000e-004
tblVehicleEF	LHD1	0.02	5.4000e-003
tblVehicleEF	LHD1	2.4180e-003	3.0000e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1460e-003	1.7000e-003
tblVehicleEF	LHD1	3.2110e-003	2.3000e-003
tblVehicleEF	LHD1	0.07	0.04
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.2910e-003	5.0000e-004
tblVehicleEF	LHD1	0.24	0.25
tblVehicleEF	LHD1	0.43	0.35
tblVehicleEF	LHD1	0.42	0.39
tblVehicleEF	LHD1	9.2000e-005	1.0000e-004
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tblVehicleEF	LHD1	4.5300e-004	5.0000e-004
tblVehicleEF	LHD1	3.2110e-003	2.3000e-003
tblVehicleEF	LHD1	0.07	0.04
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.2910e-003	5.0000e-004
tblVehicleEF	LHD1	0.28	0.28
tblVehicleEF	LHD1	0.43	0.35
tblVehicleEF	LHD1	0.45	0.42
tblVehicleEF	LHD1	1.1240e-003	1.4000e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.17	0.20
tblVehicleEF	LHD1	2.53	2.69
tblVehicleEF	LHD1	3.58	3.49

tblVehicleEF	LHD1	0.05	0.02
tblVehicleEF	LHD1	0.08	0.02
tblVehicleEF	LHD1	1.96	1.16
tblVehicleEF	LHD1	1.11	1.35
tblVehicleEF	LHD1	8.7700e-004	2.0000e-004
tblVehicleEF	LHD1	0.05	0.01
tblVehicleEF	LHD1	9.6710e-003	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2570e-003	1.8000e-003
tblVehicleEF	LHD1	8.0600e-004	2.0000e-004
tblVehicleEF	LHD1	0.02	5.4000e-003
tblVehicleEF	LHD1	2.4180e-003	3.0000e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1460e-003	1.7000e-003
tblVehicleEF	LHD1	7.9690e-003	5.5000e-003
tblVehicleEF	LHD1	0.09	0.05
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	3.0190e-003	1.2000e-003
tblVehicleEF	LHD1	0.25	0.26
tblVehicleEF	LHD1	0.43	0.34
tblVehicleEF	LHD1	0.35	0.31
tblVehicleEF	LHD1	9.2000e-005	1.0000e-004
tblVehicleEF	LHD1	7.7530e-003	8.3000e-003
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tblVehicleEF	LHD1	7.9690e-003	5.5000e-003
tblVehicleEF	LHD1	0.09	0.05
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	3.0190e-003	1.2000e-003

tblVehicleEF	LHD1	0.29	0.29
tblVehicleEF	LHD1	0.43	0.34
tblVehicleEF	LHD1	0.37	0.33
tblVehicleEF	LHD1	1.1240e-003	1.4000e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.17	0.20
tblVehicleEF	LHD1	2.42	2.58
tblVehicleEF	LHD1	6.60	6.22
tblVehicleEF	LHD1	0.05	0.02
tblVehicleEF	LHD1	0.08	0.02
tblVehicleEF	LHD1	2.14	1.22
tblVehicleEF	LHD1	1.25	1.50
tblVehicleEF	LHD1	8.7700e-004	2.0000e-004
tblVehicleEF	LHD1	0.05	0.01
tblVehicleEF	LHD1	9.6710e-003	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.2570e-003	1.8000e-003
tblVehicleEF	LHD1	8.0600e-004	2.0000e-004
tblVehicleEF	LHD1	0.02	5.4000e-003
tblVehicleEF	LHD1	2.4180e-003	3.0000e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.1460e-003	1.7000e-003
tblVehicleEF	LHD1	9.4400e-004	1.4000e-003
tblVehicleEF	LHD1	0.08	0.05
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	4.7100e-004	3.0000e-004
tblVehicleEF	LHD1	0.24	0.24

tblVehicleEF	LHD1	0.48	0.38
tblVehicleEF	LHD1	0.50	0.45
tblVehicleEF	LHD1	9.2000e-005	1.0000e-004
tblVehicleEF	LHD1	7.7510e-003	8.3000e-003
tblVehicleEF	LHD1	4.8100e-004	5.0000e-004
tblVehicleEF	LHD1	9.4400e-004	1.4000e-003
tblVehicleEF	LHD1	0.08	0.05
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	4.7100e-004	3.0000e-004
tblVehicleEF	LHD1	0.27	0.28
tblVehicleEF	LHD1	0.48	0.38
tblVehicleEF	LHD1	0.54	0.48
tblVehicleEF	LHD2	8.2600e-004	1.2000e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.18
tblVehicleEF	LHD2	1.80	2.07
tblVehicleEF	LHD2	2.66	4.32
tblVehicleEF	LHD2	8.0470e-003	8.2830e-003
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	2.87	2.20
tblVehicleEF	LHD2	0.65	1.17
tblVehicleEF	LHD2	1.4520e-003	7.0000e-004
tblVehicleEF	LHD2	0.07	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	8.1200e-004	1.6000e-003
tblVehicleEF	LHD2	1.3360e-003	6.0000e-004

tblVehicleEF	LHD2	0.03	5.4000e-003
tblVehicleEF	LHD2	2.6770e-003	3.0000e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	7.0600e-004	1.5000e-003
tblVehicleEF	LHD2	1.7390e-003	2.0000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.0600e-004	4.0000e-004
tblVehicleEF	LHD2	0.21	0.23
tblVehicleEF	LHD2	0.24	0.30
tblVehicleEF	LHD2	0.24	0.34
tblVehicleEF	LHD2	9.9000e-005	1.0000e-004
tblVehicleEF	LHD2	6.5210e-003	7.2000e-003
tblVehicleEF	LHD2	2.6700e-004	4.0000e-004
tblVehicleEF	LHD2	1.7390e-003	2.0000e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	7.0600e-004	4.0000e-004
tblVehicleEF	LHD2	0.24	0.27
tblVehicleEF	LHD2	0.24	0.30
tblVehicleEF	LHD2	0.26	0.37
tblVehicleEF	LHD2	8.2600e-004	1.2000e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.13	0.18
tblVehicleEF	LHD2	1.83	2.12
tblVehicleEF	LHD2	2.00	2.95
tblVehicleEF	LHD2	8.0470e-003	8.2830e-003

tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	2.72	2.19
tblVehicleEF	LHD2	0.62	1.10
tblVehicleEF	LHD2	1.4520e-003	7.0000e-004
tblVehicleEF	LHD2	0.07	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	8.1200e-004	1.6000e-003
tblVehicleEF	LHD2	1.3360e-003	6.0000e-004
tblVehicleEF	LHD2	0.03	5.4000e-003
tblVehicleEF	LHD2	2.6770e-003	3.0000e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	7.0600e-004	1.5000e-003
tblVehicleEF	LHD2	4.3420e-003	4.9000e-003
tblVehicleEF	LHD2	0.06	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.6650e-003	1.1000e-003
tblVehicleEF	LHD2	0.21	0.24
tblVehicleEF	LHD2	0.24	0.30
tblVehicleEF	LHD2	0.20	0.27
tblVehicleEF	LHD2	9.9000e-005	1.0000e-004
tblVehicleEF	LHD2	6.5220e-003	7.2000e-003
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tblVehicleEF	LHD2	4.3420e-003	4.9000e-003
tblVehicleEF	LHD2	0.06	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.6650e-003	1.1000e-003
tblVehicleEF	LHD2	0.24	0.27

tblVehicleEF	LHD2	0.24	0.30
tblVehicleEF	LHD2	0.21	0.29
tblVehicleEF	LHD2	8.2600e-004	1.2000e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.13	0.18
tblVehicleEF	LHD2	1.81	2.06
tblVehicleEF	LHD2	3.46	5.15
tblVehicleEF	LHD2	8.0470e-003	8.2830e-003
tblVehicleEF	LHD2	0.13	0.06
tblVehicleEF	LHD2	2.92	2.28
tblVehicleEF	LHD2	0.69	1.22
tblVehicleEF	LHD2	1.4520e-003	7.0000e-004
tblVehicleEF	LHD2	0.07	0.01
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tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	8.1200e-004	1.6000e-003
tblVehicleEF	LHD2	1.3360e-003	6.0000e-004
tblVehicleEF	LHD2	0.03	5.4000e-003
tblVehicleEF	LHD2	2.6770e-003	3.0000e-003
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	7.0600e-004	1.5000e-003
tblVehicleEF	LHD2	5.0700e-004	1.3000e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.5300e-004	2.0000e-004
tblVehicleEF	LHD2	0.21	0.23
tblVehicleEF	LHD2	0.26	0.34

tblVehicleEF	LHD2	0.29	0.39
tblVehicleEF	LHD2	9.9000e-005	1.0000e-004
tblVehicleEF	LHD2	6.5210e-003	7.2000e-003
tblVehicleEF	LHD2	2.8100e-004	4.0000e-004
tblVehicleEF	LHD2	5.0700e-004	1.3000e-003
tblVehicleEF	LHD2	0.05	0.04
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	2.5300e-004	2.0000e-004
tblVehicleEF	LHD2	0.24	0.27
tblVehicleEF	LHD2	0.26	0.34
tblVehicleEF	LHD2	0.31	0.41
tblVehicleEF	MCY	0.00	0.22
tblVehicleEF	MCY	0.00	0.14
tblVehicleEF	MCY	36.81	31.43
tblVehicleEF	MCY	10.28	10.55
tblVehicleEF	MCY	6.5000e-003	9.4650e-003
tblVehicleEF	MCY	1.32	1.21
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	0.04	6.3000e-003
tblVehicleEF	MCY	8.0000e-003	4.0000e-003
tblVehicleEF	MCY	8.8300e-004	0.02
tblVehicleEF	MCY	2.2970e-003	0.01
tblVehicleEF	MCY	0.02	2.7000e-003
tblVehicleEF	MCY	2.0000e-003	1.0000e-003
tblVehicleEF	MCY	7.0600e-004	0.02
tblVehicleEF	MCY	1.8020e-003	9.6000e-003
tblVehicleEF	MCY	1.19	1.09
tblVehicleEF	MCY	0.56	0.37

tblVehicleEF	MCY	0.62	0.47
tblVehicleEF	MCY	3.20	2.92
tblVehicleEF	MCY	1.92	0.30
tblVehicleEF	MCY	2.29	2.30
tblVehicleEF	MCY	2.2420e-003	2.0000e-003
tblVehicleEF	MCY	7.0500e-004	7.0000e-004
tblVehicleEF	MCY	1.19	1.09
tblVehicleEF	MCY	0.56	0.37
tblVehicleEF	MCY	0.62	0.47
tblVehicleEF	MCY	3.48	3.18
tblVehicleEF	MCY	1.92	0.30
tblVehicleEF	MCY	2.47	2.47
tblVehicleEF	MCY	0.00	0.21
tblVehicleEF	MCY	0.00	0.12
tblVehicleEF	MCY	37.20	31.19
tblVehicleEF	MCY	8.97	8.91
tblVehicleEF	MCY	6.5000e-003	9.4650e-003
tblVehicleEF	MCY	1.14	1.13
tblVehicleEF	MCY	0.29	0.28
tblVehicleEF	MCY	0.04	6.3000e-003
tblVehicleEF	MCY	8.0000e-003	4.0000e-003
tblVehicleEF	MCY	8.8300e-004	0.02
tblVehicleEF	MCY	2.2970e-003	0.01
tblVehicleEF	MCY	0.02	2.7000e-003
tblVehicleEF	MCY	2.0000e-003	1.0000e-003
tblVehicleEF	MCY	7.0600e-004	0.02
tblVehicleEF	MCY	1.8020e-003	9.6000e-003
tblVehicleEF	MCY	3.11	2.78

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tblVehicleEF	MCY	1.75	1.56
tblVehicleEF	MCY	3.09	2.81
tblVehicleEF	MCY	1.87	0.29
tblVehicleEF	MCY	1.91	1.87
tblVehicleEF	MCY	2.2440e-003	2.0000e-003
tblVehicleEF	MCY	6.7200e-004	6.0000e-004
tblVehicleEF	MCY	3.11	2.78
tblVehicleEF	MCY	0.89	0.62
tblVehicleEF	MCY	1.75	1.56
tblVehicleEF	MCY	3.37	3.07
tblVehicleEF	MCY	1.87	0.29
tblVehicleEF	MCY	2.06	2.01
tblVehicleEF	MCY	0.00	0.22
tblVehicleEF	MCY	0.00	0.16
tblVehicleEF	MCY	40.19	32.96
tblVehicleEF	MCY	12.21	11.62
tblVehicleEF	MCY	6.5000e-003	9.4650e-003
tblVehicleEF	MCY	1.44	1.32
tblVehicleEF	MCY	0.34	0.32
tblVehicleEF	MCY	0.04	6.3000e-003
tblVehicleEF	MCY	8.0000e-003	4.0000e-003
tblVehicleEF	MCY	8.8300e-004	0.02
tblVehicleEF	MCY	2.2970e-003	0.01
tblVehicleEF	MCY	0.02	2.7000e-003
tblVehicleEF	MCY	2.0000e-003	1.0000e-003
tblVehicleEF	MCY	7.0600e-004	0.02
tblVehicleEF	MCY	1.8020e-003	9.6000e-003

tblVehicleEF	MCY	0.29	0.67
tblVehicleEF	MCY	0.59	0.44
tblVehicleEF	MCY	0.13	0.16
tblVehicleEF	MCY	3.39	3.02
tblVehicleEF	MCY	2.27	0.37
tblVehicleEF	MCY	2.79	2.57
tblVehicleEF	MCY	2.3010e-003	2.1000e-003
tblVehicleEF	MCY	7.5100e-004	7.0000e-004
tblVehicleEF	MCY	0.29	0.67
tblVehicleEF	MCY	0.59	0.44
tblVehicleEF	MCY	0.13	0.16
tblVehicleEF	MCY	3.68	3.29
tblVehicleEF	MCY	2.27	0.37
tblVehicleEF	MCY	3.00	2.76
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.83	3.22
tblVehicleEF	MDV	6.68	7.27
tblVehicleEF	MDV	0.18	0.11
tblVehicleEF	MDV	0.42	0.42
tblVehicleEF	MDV	0.63	0.64
tblVehicleEF	MDV	0.04	0.01
tblVehicleEF	MDV	2.3500e-003	0.02
tblVehicleEF	MDV	3.7780e-003	0.01
tblVehicleEF	MDV	0.02	5.4000e-003
tblVehicleEF	MDV	2.1550e-003	0.02
tblVehicleEF	MDV	3.4740e-003	0.01
tblVehicleEF	MDV	0.12	0.13

tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.07
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.70	0.13
tblVehicleEF	MDV	0.58	0.63
tblVehicleEF	MDV	6.0150e-003	6.0000e-003
tblVehicleEF	MDV	1.3770e-003	1.3000e-003
tblVehicleEF	MDV	0.12	0.13
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.07
tblVehicleEF	MDV	0.12	0.14
tblVehicleEF	MDV	0.70	0.13
tblVehicleEF	MDV	0.62	0.68
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	3.43	3.81
tblVehicleEF	MDV	5.03	5.28
tblVehicleEF	MDV	0.18	0.11
tblVehicleEF	MDV	0.39	0.42
tblVehicleEF	MDV	0.58	0.58
tblVehicleEF	MDV	0.04	0.01
tblVehicleEF	MDV	2.3500e-003	0.02
tblVehicleEF	MDV	3.7780e-003	0.01
tblVehicleEF	MDV	0.02	5.4000e-003
tblVehicleEF	MDV	2.1550e-003	0.02
tblVehicleEF	MDV	3.4740e-003	0.01
tblVehicleEF	MDV	0.29	0.31
tblVehicleEF	MDV	0.27	0.23

tblVehicleEF	MDV	0.18	0.20
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.69	0.12
tblVehicleEF	MDV	0.47	0.50
tblVehicleEF	MDV	6.6010e-003	6.7000e-003
tblVehicleEF	MDV	1.3480e-003	1.3000e-003
tblVehicleEF	MDV	0.29	0.31
tblVehicleEF	MDV	0.27	0.23
tblVehicleEF	MDV	0.18	0.20
tblVehicleEF	MDV	0.13	0.15
tblVehicleEF	MDV	0.69	0.12
tblVehicleEF	MDV	0.51	0.53
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	2.70	3.06
tblVehicleEF	MDV	8.68	8.61
tblVehicleEF	MDV	0.18	0.11
tblVehicleEF	MDV	0.46	0.46
tblVehicleEF	MDV	0.70	0.68
tblVehicleEF	MDV	0.04	0.01
tblVehicleEF	MDV	2.3500e-003	0.02
tblVehicleEF	MDV	3.7780e-003	0.01
tblVehicleEF	MDV	0.02	5.4000e-003
tblVehicleEF	MDV	2.1550e-003	0.02
tblVehicleEF	MDV	3.4740e-003	0.01
tblVehicleEF	MDV	0.04	0.08
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	0.03	0.03

tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.84	0.15
tblVehicleEF	MDV	0.72	0.72
tblVehicleEF	MDV	5.7960e-003	5.7000e-003
tblVehicleEF	MDV	1.4130e-003	1.3000e-003
tblVehicleEF	MDV	0.04	0.08
tblVehicleEF	MDV	0.21	0.19
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.84	0.15
tblVehicleEF	MDV	0.77	0.77
tblVehicleEF	MH	0.00	0.04
tblVehicleEF	MH	0.00	0.05
tblVehicleEF	MH	6.90	9.15
tblVehicleEF	MH	11.66	15.07
tblVehicleEF	MH	2.3350e-003	2.9780e-003
tblVehicleEF	MH	2.40	2.12
tblVehicleEF	MH	1.00	1.21
tblVehicleEF	MH	0.05	0.01
tblVehicleEF	MH	8.7350e-003	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	2.0970e-003	1.0000e-003
tblVehicleEF	MH	0.02	5.4000e-003
tblVehicleEF	MH	2.1840e-003	3.0000e-003
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	1.8070e-003	9.0000e-004
tblVehicleEF	MH	1.79	2.10
tblVehicleEF	MH	0.11	0.10

tblVehicleEF	MH	0.47	0.48
tblVehicleEF	MH	0.27	0.34
tblVehicleEF	MH	2.24	0.02
tblVehicleEF	MH	0.71	0.87
tblVehicleEF	MH	7.8060e-003	7.7000e-003
tblVehicleEF	MH	5.2900e-004	6.0000e-004
tblVehicleEF	MH	1.79	2.10
tblVehicleEF	MH	0.11	0.10
tblVehicleEF	MH	0.47	0.48
tblVehicleEF	MH	0.31	0.40
tblVehicleEF	MH	2.24	0.02
tblVehicleEF	MH	0.76	0.93
tblVehicleEF	MH	0.00	0.04
tblVehicleEF	MH	0.00	0.03
tblVehicleEF	MH	7.15	9.49
tblVehicleEF	MH	8.32	10.07
tblVehicleEF	MH	2.3350e-003	2.9780e-003
tblVehicleEF	MH	2.20	2.06
tblVehicleEF	MH	0.95	1.13
tblVehicleEF	MH	0.05	0.01
tblVehicleEF	MH	8.7350e-003	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	2.0970e-003	1.0000e-003
tblVehicleEF	MH	0.02	5.4000e-003
tblVehicleEF	MH	2.1840e-003	3.0000e-003
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	1.8070e-003	9.0000e-004
tblVehicleEF	MH	4.45	5.09

tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	1.04	1.18
tblVehicleEF	MH	0.27	0.35
tblVehicleEF	MH	2.21	0.02
tblVehicleEF	MH	0.56	0.65
tblVehicleEF	MH	7.8100e-003	7.7000e-003
tblVehicleEF	MH	4.7200e-004	5.0000e-004
tblVehicleEF	MH	4.45	5.09
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	1.04	1.18
tblVehicleEF	MH	0.32	0.41
tblVehicleEF	MH	2.21	0.02
tblVehicleEF	MH	0.59	0.69
tblVehicleEF	MH	0.00	0.04
tblVehicleEF	MH	0.00	0.05
tblVehicleEF	MH	6.91	9.07
tblVehicleEF	MH	15.82	18.06
tblVehicleEF	MH	2.3350e-003	2.9780e-003
tblVehicleEF	MH	2.50	2.26
tblVehicleEF	MH	1.07	1.26
tblVehicleEF	MH	0.05	0.01
tblVehicleEF	MH	8.7350e-003	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	2.0970e-003	1.0000e-003
tblVehicleEF	MH	0.02	5.4000e-003
tblVehicleEF	MH	2.1840e-003	3.0000e-003
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	1.8070e-003	9.0000e-004

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tblVehicleEF	MH	0.13	0.14
tblVehicleEF	MH	0.21	0.27
tblVehicleEF	MH	0.27	0.34
tblVehicleEF	MH	2.39	0.02
tblVehicleEF	MH	0.91	1.01
tblVehicleEF	MH	7.8060e-003	7.7000e-003
tblVehicleEF	MH	6.0100e-004	6.0000e-004
tblVehicleEF	MH	0.52	1.36
tblVehicleEF	MH	0.13	0.14
tblVehicleEF	MH	0.21	0.27
tblVehicleEF	MH	0.31	0.39
tblVehicleEF	MH	2.39	0.02
tblVehicleEF	MH	0.97	1.08
tblVehicleEF	MHD	0.01	9.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.00	0.03
tblVehicleEF	MHD	2.19	0.13
tblVehicleEF	MHD	2.15	3.13
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tblVehicleEF	MHD	7.80	0.18
tblVehicleEF	MHD	5.89	5.23
tblVehicleEF	MHD	2.25	0.60
tblVehicleEF	MHD	0.07	2.5000e-003
tblVehicleEF	MHD	0.12	0.01
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.17	0.20

tblVehicleEF	MHD	8.3110e-003	1.2000e-003
tblVehicleEF	MHD	0.06	2.3000e-003
tblVehicleEF	MHD	0.05	5.4000e-003
tblVehicleEF	MHD	2.8470e-003	3.0000e-003
tblVehicleEF	MHD	0.16	0.18
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tblVehicleEF	MHD	7.4640e-003	1.2000e-003
tblVehicleEF	MHD	0.31	0.02
tblVehicleEF	MHD	0.25	0.01
tblVehicleEF	MHD	3.1390e-003	3.0000e-004
tblVehicleEF	MHD	0.35	0.25
tblVehicleEF	MHD	1.04	0.14
tblVehicleEF	MHD	2.46	0.62
tblVehicleEF	MHD	5.7810e-003	1.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.2970e-003	3.0000e-004
tblVehicleEF	MHD	7.4640e-003	1.2000e-003
tblVehicleEF	MHD	0.31	0.02
tblVehicleEF	MHD	0.29	0.02
tblVehicleEF	MHD	3.1390e-003	3.0000e-004
tblVehicleEF	MHD	0.40	0.28
tblVehicleEF	MHD	1.04	0.14
tblVehicleEF	MHD	2.64	0.66
tblVehicleEF	MHD	0.01	9.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.00	0.03
tblVehicleEF	MHD	1.59	0.13
tblVehicleEF	MHD	2.18	3.16

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tblVehicleEF	MHD	8.05	0.18
tblVehicleEF	MHD	5.58	5.22
tblVehicleEF	MHD	2.12	0.57
tblVehicleEF	MHD	0.06	2.5000e-003
tblVehicleEF	MHD	0.12	0.01
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.17	0.20
tblVehicleEF	MHD	8.3110e-003	1.2000e-003
tblVehicleEF	MHD	0.05	2.3000e-003
tblVehicleEF	MHD	0.05	5.4000e-003
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tblVehicleEF	MHD	0.16	0.18
tblVehicleEF	MHD	6.7100e-003	1.1000e-003
tblVehicleEF	MHD	0.02	3.1000e-003
tblVehicleEF	MHD	0.37	0.03
tblVehicleEF	MHD	0.24	0.01
tblVehicleEF	MHD	7.7050e-003	8.0000e-004
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tblVehicleEF	MHD	1.05	0.14
tblVehicleEF	MHD	1.96	0.48
tblVehicleEF	MHD	6.1240e-003	1.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.1790e-003	3.0000e-004
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tblVehicleEF	MHD	0.37	0.03
tblVehicleEF	MHD	0.27	0.02

tblVehicleEF	MHD	7.7050e-003	8.0000e-004
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tblVehicleEF	MHD	1.05	0.14
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tblVehicleEF	MHD	0.01	0.01
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.46	0.18
tblVehicleEF	MHD	6.00	5.41
tblVehicleEF	MHD	2.39	0.63
tblVehicleEF	MHD	0.08	2.5000e-003
tblVehicleEF	MHD	0.12	0.01
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.17	0.20
tblVehicleEF	MHD	8.3110e-003	1.2000e-003
tblVehicleEF	MHD	0.08	2.3000e-003
tblVehicleEF	MHD	0.05	5.4000e-003
tblVehicleEF	MHD	2.8470e-003	3.0000e-003
tblVehicleEF	MHD	0.16	0.18
tblVehicleEF	MHD	6.7100e-003	1.1000e-003
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tblVehicleEF	MHD	0.27	0.01
tblVehicleEF	MHD	1.0070e-003	2.0000e-004

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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	1.4520e-003	3.0000e-004
tblVehicleEF	MHD	1.9520e-003	7.0000e-004
tblVehicleEF	MHD	0.37	0.03
tblVehicleEF	MHD	0.31	0.02
tblVehicleEF	MHD	1.0070e-003	2.0000e-004
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tblVehicleEF	MHD	1.12	0.15
tblVehicleEF	MHD	3.34	0.77
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tblVehicleEF	OBUS	3.1480e-003	0.03
tblVehicleEF	OBUS	0.00	0.06
tblVehicleEF	OBUS	2.30	0.18
tblVehicleEF	OBUS	3.05	5.74
tblVehicleEF	OBUS	16.94	17.06
tblVehicleEF	OBUS	1.8210e-003	1.0770e-003
tblVehicleEF	OBUS	7.28	0.11
tblVehicleEF	OBUS	5.70	4.61
tblVehicleEF	OBUS	2.16	2.02
tblVehicleEF	OBUS	0.06	1.6000e-003
tblVehicleEF	OBUS	0.09	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.14
tblVehicleEF	OBUS	1.7850e-003	2.6000e-003

tblVehicleEF	OBUS	0.05	1.5000e-003
tblVehicleEF	OBUS	0.04	5.4000e-003
tblVehicleEF	OBUS	2.5450e-003	3.0000e-003
tblVehicleEF	OBUS	0.08	0.13
tblVehicleEF	OBUS	1.5310e-003	2.4000e-003
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tblVehicleEF	OBUS	4.7400e-004	4.0000e-004
tblVehicleEF	OBUS	0.30	0.37
tblVehicleEF	OBUS	0.32	0.22
tblVehicleEF	OBUS	1.06	1.05
tblVehicleEF	OBUS	5.5590e-003	1.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	6.8700e-004	5.0000e-004
tblVehicleEF	OBUS	1.4580e-003	1.5000e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.56	0.03
tblVehicleEF	OBUS	4.7400e-004	4.0000e-004
tblVehicleEF	OBUS	0.35	0.42
tblVehicleEF	OBUS	0.32	0.22
tblVehicleEF	OBUS	1.13	1.12
tblVehicleEF	OBUS	0.02	1.2000e-003
tblVehicleEF	OBUS	3.1480e-003	0.03
tblVehicleEF	OBUS	0.00	0.04
tblVehicleEF	OBUS	1.67	0.18
tblVehicleEF	OBUS	3.13	5.87
tblVehicleEF	OBUS	12.54	12.29

tblVehicleEF	OBUS	1.8210e-003	1.0770e-003
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tblVehicleEF	OBUS	0.09	0.01
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.14
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tblVehicleEF	OBUS	0.04	5.4000e-003
tblVehicleEF	OBUS	2.5450e-003	3.0000e-003
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tblVehicleEF	OBUS	3.6380e-003	3.6000e-003
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tblVehicleEF	OBUS	0.32	0.23
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tblVehicleEF	OBUS	6.1200e-004	4.0000e-004
tblVehicleEF	OBUS	3.6380e-003	3.6000e-003
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tblVehicleEF	OBUS	0.53	0.03
tblVehicleEF	OBUS	1.0790e-003	1.0000e-003

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tblVehicleEF	OBUS	0.93	0.90
tblVehicleEF	OBUS	0.02	1.2000e-003
tblVehicleEF	OBUS	3.1480e-003	0.03
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tblVehicleEF	OBUS	22.39	20.02
tblVehicleEF	OBUS	1.8210e-003	1.0770e-003
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tblVehicleEF	OBUS	2.30	2.11
tblVehicleEF	OBUS	0.07	1.6000e-003
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.09	0.14
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tblVehicleEF	OBUS	0.07	1.5000e-003
tblVehicleEF	OBUS	0.04	5.4000e-003
tblVehicleEF	OBUS	2.5450e-003	3.0000e-003
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tblVehicleEF	OBUS	1.5310e-003	2.4000e-003
tblVehicleEF	OBUS	4.2600e-004	9.0000e-004
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tblVehicleEF	OBUS	0.53	0.02
tblVehicleEF	OBUS	2.0400e-004	2.0000e-004
tblVehicleEF	OBUS	0.30	0.36

tblVehicleEF	OBUS	0.35	0.24
tblVehicleEF	OBUS	1.28	1.19
tblVehicleEF	OBUS	5.1030e-003	1.0000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7900e-004	6.0000e-004
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tblVehicleEF	OBUS	0.35	0.24
tblVehicleEF	OBUS	1.37	1.27
tblVehicleEF	SBUS	5.3980e-003	0.03
tblVehicleEF	SBUS	6.9290e-003	0.04
tblVehicleEF	SBUS	0.00	0.03
tblVehicleEF	SBUS	1.04	5.49
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tblVehicleEF	SBUS	53.83	8.38
tblVehicleEF	SBUS	9.7500e-004	1.8560e-003
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tblVehicleEF	SBUS	8.33	10.11
tblVehicleEF	SBUS	3.43	0.55
tblVehicleEF	SBUS	0.03	0.12
tblVehicleEF	SBUS	0.53	0.01
tblVehicleEF	SBUS	0.01	0.01
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tblVehicleEF	SBUS	0.01	1.3000e-003
tblVehicleEF	SBUS	0.03	0.11

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tblVehicleEF	SBUS	9.9970e-003	1.2000e-003
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tblVehicleEF	SBUS	0.38	0.05
tblVehicleEF	SBUS	0.12	0.76
tblVehicleEF	SBUS	0.02	2.4000e-003
tblVehicleEF	SBUS	0.80	0.71
tblVehicleEF	SBUS	2.84	0.03
tblVehicleEF	SBUS	3.81	0.61
tblVehicleEF	SBUS	5.6340e-003	5.4000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.3250e-003	3.0000e-004
tblVehicleEF	SBUS	0.07	0.01
tblVehicleEF	SBUS	0.38	0.05
tblVehicleEF	SBUS	0.13	0.84
tblVehicleEF	SBUS	0.02	2.4000e-003
tblVehicleEF	SBUS	0.88	0.79
tblVehicleEF	SBUS	2.84	0.03
tblVehicleEF	SBUS	4.08	0.65
tblVehicleEF	SBUS	5.0870e-003	0.03
tblVehicleEF	SBUS	6.9290e-003	0.04
tblVehicleEF	SBUS	0.00	0.03
tblVehicleEF	SBUS	0.76	5.49
tblVehicleEF	SBUS	10.19	8.14
tblVehicleEF	SBUS	43.34	6.61
tblVehicleEF	SBUS	9.7500e-004	1.8560e-003

tblVehicleEF	SBUS	8.46	8.58
tblVehicleEF	SBUS	7.84	10.09
tblVehicleEF	SBUS	3.16	0.50
tblVehicleEF	SBUS	0.02	0.12
tblVehicleEF	SBUS	0.53	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.08	0.47
tblVehicleEF	SBUS	0.01	1.3000e-003
tblVehicleEF	SBUS	0.02	0.11
tblVehicleEF	SBUS	0.23	5.4000e-003
tblVehicleEF	SBUS	2.7000e-003	3.0000e-003
tblVehicleEF	SBUS	0.08	0.43
tblVehicleEF	SBUS	9.9970e-003	1.2000e-003
tblVehicleEF	SBUS	0.19	0.02
tblVehicleEF	SBUS	0.43	0.06
tblVehicleEF	SBUS	0.11	0.76
tblVehicleEF	SBUS	0.05	6.1000e-003
tblVehicleEF	SBUS	0.82	0.71
tblVehicleEF	SBUS	2.56	0.03
tblVehicleEF	SBUS	3.21	0.51
tblVehicleEF	SBUS	5.9690e-003	5.4000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.1410e-003	3.0000e-004
tblVehicleEF	SBUS	0.19	0.02
tblVehicleEF	SBUS	0.43	0.06
tblVehicleEF	SBUS	0.12	0.84
tblVehicleEF	SBUS	0.05	6.1000e-003
tblVehicleEF	SBUS	0.89	0.79

tblVehicleEF	SBUS	2.56	0.03
tblVehicleEF	SBUS	3.44	0.54
tblVehicleEF	SBUS	5.8270e-003	0.03
tblVehicleEF	SBUS	6.9290e-003	0.04
tblVehicleEF	SBUS	0.00	0.04
tblVehicleEF	SBUS	1.44	5.49
tblVehicleEF	SBUS	10.16	8.15
tblVehicleEF	SBUS	67.56	9.66
tblVehicleEF	SBUS	9.7500e-004	1.8560e-003
tblVehicleEF	SBUS	7.83	8.58
tblVehicleEF	SBUS	8.56	10.44
tblVehicleEF	SBUS	3.71	0.58
tblVehicleEF	SBUS	0.03	0.12
tblVehicleEF	SBUS	0.53	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.08	0.47
tblVehicleEF	SBUS	0.01	1.3000e-003
tblVehicleEF	SBUS	0.03	0.11
tblVehicleEF	SBUS	0.23	5.4000e-003
tblVehicleEF	SBUS	2.7000e-003	3.0000e-003
tblVehicleEF	SBUS	0.08	0.43
tblVehicleEF	SBUS	9.9970e-003	1.2000e-003
tblVehicleEF	SBUS	0.02	6.5000e-003
tblVehicleEF	SBUS	0.43	0.06
tblVehicleEF	SBUS	0.13	0.76
tblVehicleEF	SBUS	8.5480e-003	1.3000e-003
tblVehicleEF	SBUS	0.79	0.70
tblVehicleEF	SBUS	3.47	0.04

tblVehicleEF	SBUS	4.55	0.68
tblVehicleEF	SBUS	5.1720e-003	5.4000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.5640e-003	4.0000e-004
tblVehicleEF	SBUS	0.02	6.5000e-003
tblVehicleEF	SBUS	0.43	0.06
tblVehicleEF	SBUS	0.14	0.84
tblVehicleEF	SBUS	8.5480e-003	1.3000e-003
tblVehicleEF	SBUS	0.87	0.78
tblVehicleEF	SBUS	3.47	0.04
tblVehicleEF	SBUS	4.87	0.73
tblVehicleEF	UBUS	0.00	0.06
tblVehicleEF	UBUS	0.00	0.11
tblVehicleEF	UBUS	7.76	9.98
tblVehicleEF	UBUS	21.63	30.06
tblVehicleEF	UBUS	1.6370e-003	1.4990e-003
tblVehicleEF	UBUS	11.85	14.59
tblVehicleEF	UBUS	2.63	3.60
tblVehicleEF	UBUS	0.62	0.01
tblVehicleEF	UBUS	8.0000e-003	9.1000e-003
tblVehicleEF	UBUS	0.18	0.23
tblVehicleEF	UBUS	1.1190e-003	3.8000e-003
tblVehicleEF	UBUS	0.27	5.4000e-003
tblVehicleEF	UBUS	2.0000e-003	2.3000e-003
tblVehicleEF	UBUS	0.17	0.21
tblVehicleEF	UBUS	9.7600e-004	3.5000e-003
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.14	0.16

tblVehicleEF	UBUS	3.9700e-003	4.1000e-003
tblVehicleEF	UBUS	0.93	1.32
tblVehicleEF	UBUS	0.78	0.03
tblVehicleEF	UBUS	1.52	2.05
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	7.9900e-004	9.0000e-004
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.14	0.16
tblVehicleEF	UBUS	3.9700e-003	4.1000e-003
tblVehicleEF	UBUS	1.03	1.45
tblVehicleEF	UBUS	0.78	0.03
tblVehicleEF	UBUS	1.63	2.19
tblVehicleEF	UBUS	0.00	0.07
tblVehicleEF	UBUS	0.00	0.10
tblVehicleEF	UBUS	7.91	10.21
tblVehicleEF	UBUS	17.12	23.03
tblVehicleEF	UBUS	1.6370e-003	1.4990e-003
tblVehicleEF	UBUS	11.16	14.52
tblVehicleEF	UBUS	2.46	3.36
tblVehicleEF	UBUS	0.62	0.01
tblVehicleEF	UBUS	8.0000e-003	9.1000e-003
tblVehicleEF	UBUS	0.18	0.23
tblVehicleEF	UBUS	1.1190e-003	3.8000e-003
tblVehicleEF	UBUS	0.27	5.4000e-003
tblVehicleEF	UBUS	2.0000e-003	2.3000e-003
tblVehicleEF	UBUS	0.17	0.21
tblVehicleEF	UBUS	9.7600e-004	3.5000e-003
tblVehicleEF	UBUS	0.03	0.02

tblVehicleEF	UBUS	0.18	0.21
tblVehicleEF	UBUS	9.3980e-003	0.01
tblVehicleEF	UBUS	0.95	1.35
tblVehicleEF	UBUS	0.75	0.03
tblVehicleEF	UBUS	1.32	1.75
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	7.2200e-004	8.0000e-004
tblVehicleEF	UBUS	0.03	0.02
tblVehicleEF	UBUS	0.18	0.21
tblVehicleEF	UBUS	9.3980e-003	0.01
tblVehicleEF	UBUS	1.05	1.48
tblVehicleEF	UBUS	0.75	0.03
tblVehicleEF	UBUS	1.41	1.87
tblVehicleEF	UBUS	0.00	0.06
tblVehicleEF	UBUS	0.00	0.12
tblVehicleEF	UBUS	7.74	9.91
tblVehicleEF	UBUS	27.02	34.08
tblVehicleEF	UBUS	1.6370e-003	1.4990e-003
tblVehicleEF	UBUS	12.15	15.13
tblVehicleEF	UBUS	2.80	3.75
tblVehicleEF	UBUS	0.62	0.01
tblVehicleEF	UBUS	8.0000e-003	9.1000e-003
tblVehicleEF	UBUS	0.18	0.23
tblVehicleEF	UBUS	1.1190e-003	3.8000e-003
tblVehicleEF	UBUS	0.27	5.4000e-003
tblVehicleEF	UBUS	2.0000e-003	2.3000e-003
tblVehicleEF	UBUS	0.17	0.21
tblVehicleEF	UBUS	9.7600e-004	3.5000e-003

tblVehicleEF	UBUS	3.3720e-003	8.6000e-003
tblVehicleEF	UBUS	0.16	0.20
tblVehicleEF	UBUS	1.6550e-003	2.3000e-003
tblVehicleEF	UBUS	0.92	1.30
tblVehicleEF	UBUS	0.94	0.03
tblVehicleEF	UBUS	1.76	2.24
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	8.9100e-004	1.0000e-003
tblVehicleEF	UBUS	3.3720e-003	8.6000e-003
tblVehicleEF	UBUS	0.16	0.20
tblVehicleEF	UBUS	1.6550e-003	2.3000e-003
tblVehicleEF	UBUS	1.02	1.42
tblVehicleEF	UBUS	0.94	0.03
tblVehicleEF	UBUS	1.88	2.39
tblWater	AerobicPercent	87.46	84.69
tblWater	AnaDigestCombDigestGasPercent	100.00	3.17
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	2.14
tblWater	IndoorWaterUseRate	110,403,375.00	2,347,445,242.74
tblWater	SepticTankPercent	10.33	10.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.2862	2.8054	2.1539	2.5300e-003	0.2134	0.1477	0.3611	0.0975	0.1370	0.2345	0.0000	235.2682	235.2682	0.0563	0.0000	236.4510
Total	**0.2862**	**2.8054**	**2.1539**	**2.5300e-003**	**0.2134**	**0.1477**	**0.3611**	**0.0975**	**0.1370**	**0.2345**	**0.0000**	**235.2682**	**235.2682**	**0.0563**	**0.0000**	**236.4510**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2014	0.2862	2.8054	2.1539	2.5300e-003	0.1017	0.1477	0.2494	0.0430	0.1370	0.1800	0.0000	235.2680	235.2680	0.0563	0.0000	236.4507
Total	**0.2862**	**2.8054**	**2.1539**	**2.5300e-003**	**0.1017**	**0.1477**	**0.2494**	**0.0430**	**0.1370**	**0.1800**	**0.0000**	**235.2680**	**235.2680**	**0.0563**	**0.0000**	**236.4507**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**52.35**	**0.00**	**30.94**	**55.88**	**0.00**	**23.23**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.1969	4.0000e-005	4.5900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5300e-003	8.5300e-003	3.0000e-005	0.0000	9.0700e-003
Energy	0.0455	0.4135	0.3474	2.4800e-003		0.0314	0.0314		0.0314	0.0314	0.0000	816.7827	816.7827	0.0252	0.0145	821.8200
Mobile	2.7695	16.7790	29.9759	0.0432	2.5264	0.5443	3.0707	0.6477	0.5085	1.1562	0.0000	4,232.7833	4,232.7833	0.1802	0.0000	4,236.5682
Waste						0.0000	0.0000		0.0000	0.0000	5,638.2100	0.0000	5,638.2100	333.2087	0.0000	12,635.5920
Water						0.0000	0.0000		0.0000	0.0000	721.1490	3,694.6465	4,415.7956	74.2209	1.8123	6,536.2323
Total	**5.0119**	**17.1926**	**30.3279**	**0.0457**	**2.5264**	**0.5758**	**3.1022**	**0.6477**	**0.5399**	**1.1877**	**6,359.3590**	**8,744.2210**	**15,103.5800**	**407.6350**	**1.8268**	**24,230.2215**

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	2.1969	4.0000e-005	4.5900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5300e-003	8.5300e-003	3.0000e-005	0.0000	9.0700e-003
Energy	0.0455	0.4135	0.3474	2.4800e-003		0.0314	0.0314		0.0314	0.0314	0.0000	816.7827	816.7827	0.0252	0.0145	821.8200
Mobile	2.6596	15.8615	28.3350	0.0402	2.3395	0.5077	2.8472	0.5998	0.4742	1.0741	0.0000	3,930.4793	3,930.4793	0.1693	0.0000	3,934.0354
Waste						0.0000	0.0000		0.0000	0.0000	2,819.1050	0.0000	2,819.1050	166.6043	0.0000	6,317.7960
Water						0.0000	0.0000		0.0000	0.0000	721.1490	3,685.1742	4,406.3233	74.2204	1.8121	6,526.7006
Total	**4.9021**	**16.2751**	**28.6870**	**0.0426**	**2.3395**	**0.5392**	**2.8787**	**0.5998**	**0.5057**	**1.1055**	**3,540.2540**	**8,432.4448**	**11,972.6988**	**241.0193**	**1.8266**	**17,600.3611**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**2.19**	**5.34**	**5.41**	**6.65**	**7.40**	**6.36**	**7.20**	**7.40**	**6.34**	**6.92**	**44.33**	**3.57**	**20.73**	**40.87**	**0.01**	**27.36**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	83.3200
Vegetation Land Change	0.0000
Total	**83.3200**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Site Preparation	4/1/2014	4/4/2014	5	4	
2	Machine Installation	Building Construction	4/5/2014	4/14/2014	5	6	
3	Storm Pond Construction	Trenching	4/15/2014	5/26/2014	5	30	
4	Modular Installation	Building Construction	5/27/2014	6/20/2014	5	19	
5	Paving	Paving	6/21/2014	7/3/2014	5	9	
6	Landscape Planting	Site Preparation	7/4/2014	7/22/2014	5	13	

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: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Rubber Tired Dozers	3	8.00	358	0.59
Grading	Tractors/Loaders/Backhoes	4	8.00	75	0.55
Machine Installation	Cranes	1	7.00	208	0.43
Machine Installation	Forklifts	3	8.00	149	0.30
Machine Installation	Generator Sets	1	8.00	84	0.74
Machine Installation	Rubber Tired Dozers	3	8.00	358	0.59
Machine Installation	Tractors/Loaders/Backhoes	4	8.00	75	0.55
Machine Installation	Welders	1	8.00	46	0.45
Storm Pond Construction	Air Compressors	1	6.00	78	0.48
Modular Installation	Cranes	1	7.00	208	0.43
Modular Installation	Forklifts	3	8.00	149	0.30
Modular Installation	Generator Sets	1	8.00	84	0.74
Modular Installation	Tractors/Loaders/Backhoes	3	7.00	75	0.55
Modular Installation	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	89	0.62
Paving	Paving Equipment	2	8.00	82	0.53
Paving	Rollers	2	8.00	84	0.56
Landscape Planting	Concrete/Industrial Saws	1	8.00	81	0.73
Landscape Planting	Excavators	3	8.00	157	0.57
Landscape Planting	Excavators	2	8.00	157	0.57
Landscape Planting	Graders	1	8.00	162	0.61
Landscape Planting	Pavers	0	0.00	0	0.00
Landscape Planting	Paving Equipment	0	0.00	0	0.00
Landscape Planting	Rollers	2	8.00	84	0.56

Landscape Planting	Rubber Tired Dozers	2	8.00	358	0.59
Landscape Planting	Rubber Tired Dozers	1	8.00	358	0.59
Landscape Planting	Scrapers	2	8.00	356	0.72
Landscape Planting	Tractors/Loaders/Backhoes	2	8.00	75	0.55

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
Grading	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Machine Installation	13	201.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Storm Pond Construction	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Modular Installation	9	201.00	78.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Landscape Planting	16	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Landscape Planting	16	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Landscape Planting	16	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0361	0.0000	0.0361	0.0199	0.0000	0.0199	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0192	0.2126	0.1601	1.4000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	13.4004	13.4004	3.9600e-003	0.0000	13.4836
Total	**0.0192**	**0.2126**	**0.1601**	**1.4000e-004**	**0.0361**	**0.0110**	**0.0471**	**0.0199**	**0.0101**	**0.0299**	**0.0000**	**13.4004**	**13.4004**	**3.9600e-003**	**0.0000**	**13.4836**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.2000e-004	2.2200e-003	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2776	0.2776	2.0000e-005	0.0000	0.2779
Total	**1.8000e-004**	**2.2000e-004**	**2.2200e-003**	**0.0000**	**2.9000e-004**	**0.0000**	**2.9000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.2776**	**0.2776**	**2.0000e-005**	**0.0000**	**0.2779**

3.2 Grading - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0141	0.0000	0.0141	7.7500e-003	0.0000	7.7500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0192	0.2126	0.1601	1.4000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	13.4004	13.4004	3.9600e-003	0.0000	13.4836
Total	**0.0192**	**0.2126**	**0.1601**	**1.4000e-004**	**0.0141**	**0.0110**	**0.0250**	**7.7500e-003**	**0.0101**	**0.0178**	**0.0000**	**13.4004**	**13.4004**	**3.9600e-003**	**0.0000**	**13.4836**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.2000e-004	2.2200e-003	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	7.0000e-005	0.0000	0.2776	0.2776	2.0000e-005	0.0000	0.2779
Total	**1.8000e-004**	**2.2000e-004**	**2.2200e-003**	**0.0000**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**6.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2776**	**0.2776**	**2.0000e-005**	**0.0000**	**0.2779**

3.3 Machine Installation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0401	0.4193	0.2943	2.9000e-004		0.0222	0.0222		0.0205	0.0205	0.0000	27.6315	27.6315	7.8600e-003	0.0000	27.7966
Total	**0.0401**	**0.4193**	**0.2943**	**2.9000e-004**		**0.0222**	**0.0222**		**0.0205**	**0.0205**	**0.0000**	**27.6315**	**27.6315**	**7.8600e-003**	**0.0000**	**27.7966**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9800e-003	3.7300e-003	0.0371	6.0000e-005	4.8200e-003	4.0000e-005	4.8600e-003	1.2800e-003	4.0000e-005	1.3200e-003	0.0000	4.6489	4.6489	2.9000e-004	0.0000	4.6550
Total	**2.9800e-003**	**3.7300e-003**	**0.0371**	**6.0000e-005**	**4.8200e-003**	**4.0000e-005**	**4.8600e-003**	**1.2800e-003**	**4.0000e-005**	**1.3200e-003**	**0.0000**	**4.6489**	**4.6489**	**2.9000e-004**	**0.0000**	**4.6550**

3.3 Machine Installation - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0401	0.4193	0.2943	2.9000e-004		0.0222	0.0222		0.0205	0.0205	0.0000	27.6314	27.6314	7.8600e-003	0.0000	27.7965
Total	**0.0401**	**0.4193**	**0.2943**	**2.9000e-004**		**0.0222**	**0.0222**		**0.0205**	**0.0205**	**0.0000**	**27.6314**	**27.6314**	**7.8600e-003**	**0.0000**	**27.7965**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9800e-003	3.7300e-003	0.0371	6.0000e-005	3.9900e-003	4.0000e-005	4.0300e-003	1.0800e-003	4.0000e-005	1.1200e-003	0.0000	4.6489	4.6489	2.9000e-004	0.0000	4.6550
Total	**2.9800e-003**	**3.7300e-003**	**0.0371**	**6.0000e-005**	**3.9900e-003**	**4.0000e-005**	**4.0300e-003**	**1.0800e-003**	**4.0000e-005**	**1.1200e-003**	**0.0000**	**4.6489**	**4.6489**	**2.9000e-004**	**0.0000**	**4.6550**

3.4 Storm Pond Construction - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.6900e-003	0.0417	0.0288	4.0000e-005		3.6800e-003	3.6800e-003		3.6800e-003	3.6800e-003	0.0000	3.8299	3.8299	5.5000e-004	0.0000	3.8413
Total	**6.6900e-003**	**0.0417**	**0.0288**	**4.0000e-005**		**3.6800e-003**	**3.6800e-003**		**3.6800e-003**	**3.6800e-003**	**0.0000**	**3.8299**	**3.8299**	**5.5000e-004**	**0.0000**	**3.8413**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	2.8000e-004	2.7700e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3469	0.3469	2.0000e-005	0.0000	0.3474
Total	**2.2000e-004**	**2.8000e-004**	**2.7700e-003**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3469**	**0.3469**	**2.0000e-005**	**0.0000**	**0.3474**

3.4 Storm Pond Construction - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.6900e-003	0.0417	0.0288	4.0000e-005		3.6800e-003	3.6800e-003		3.6800e-003	3.6800e-003	0.0000	3.8299	3.8299	5.5000e-004	0.0000	3.8413
Total	**6.6900e-003**	**0.0417**	**0.0288**	**4.0000e-005**		**3.6800e-003**	**3.6800e-003**		**3.6800e-003**	**3.6800e-003**	**0.0000**	**3.8299**	**3.8299**	**5.5000e-004**	**0.0000**	**3.8413**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	2.8000e-004	2.7700e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.3469	0.3469	2.0000e-005	0.0000	0.3474
Total	**2.2000e-004**	**2.8000e-004**	**2.7700e-003**	**0.0000**	**3.0000e-004**	**0.0000**	**3.0000e-004**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**0.0000**	**0.3469**	**0.3469**	**2.0000e-005**	**0.0000**	**0.3474**

3.5 Modular Installation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0463	0.4191	0.2410	3.5000e-004		0.0261	0.0261		0.0245	0.0245	0.0000	32.4558	32.4558	8.6300e-003	0.0000	32.6370
Total	**0.0463**	**0.4191**	**0.2410**	**3.5000e-004**		**0.0261**	**0.0261**		**0.0245**	**0.0245**	**0.0000**	**32.4558**	**32.4558**	**8.6300e-003**	**0.0000**	**32.6370**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0143	0.1001	0.1484	1.8000e-004	4.8200e-003	2.0700e-003	6.8900e-003	1.3800e-003	1.9000e-003	3.2800e-003	0.0000	16.4023	16.4023	1.8000e-004	0.0000	16.4061
Worker	9.4200e-003	0.0118	0.1175	1.8000e-004	0.0153	1.4000e-004	0.0154	4.0600e-003	1.2000e-004	4.1800e-003	0.0000	14.7215	14.7215	9.2000e-004	0.0000	14.7408
Total	**0.0237**	**0.1120**	**0.2660**	**3.6000e-004**	**0.0201**	**2.2100e-003**	**0.0223**	**5.4400e-003**	**2.0200e-003**	**7.4600e-003**	**0.0000**	**31.1238**	**31.1238**	**1.1000e-003**	**0.0000**	**31.1469**

3.5 Modular Installation - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0463	0.4191	0.2410	3.5000e-004		0.0261	0.0261		0.0245	0.0245	0.0000	32.4557	32.4557	8.6300e-003	0.0000	32.6369
Total	**0.0463**	**0.4191**	**0.2410**	**3.5000e-004**		**0.0261**	**0.0261**		**0.0245**	**0.0245**	**0.0000**	**32.4557**	**32.4557**	**8.6300e-003**	**0.0000**	**32.6369**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0143	0.1001	0.1484	1.8000e-004	4.1300e-003	2.0700e-003	6.2000e-003	1.2100e-003	1.9000e-003	3.1100e-003	0.0000	16.4023	16.4023	1.8000e-004	0.0000	16.4061
Worker	9.4200e-003	0.0118	0.1175	1.8000e-004	0.0126	1.4000e-004	0.0128	3.4100e-003	1.2000e-004	3.5300e-003	0.0000	14.7215	14.7215	9.2000e-004	0.0000	14.7408
Total	**0.0237**	**0.1120**	**0.2660**	**3.6000e-004**	**0.0168**	**2.2100e-003**	**0.0190**	**4.6200e-003**	**2.0200e-003**	**6.6400e-003**	**0.0000**	**31.1238**	**31.1238**	**1.1000e-003**	**0.0000**	**31.1469**

3.6 Paving - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0158	0.1460	0.0880	1.1000e-004		0.0111	0.0111		0.0102	0.0102	0.0000	10.8436	10.8436	3.2000e-003	0.0000	10.9109
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0158**	**0.1460**	**0.0880**	**1.1000e-004**		**0.0111**	**0.0111**		**0.0102**	**0.0102**	**0.0000**	**10.8436**	**10.8436**	**3.2000e-003**	**0.0000**	**10.9109**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0158	0.1460	0.0880	1.1000e-004		0.0111	0.0111		0.0102	0.0102	0.0000	10.8436	10.8436	3.2000e-003	0.0000	10.9109
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0158**	**0.1460**	**0.0880**	**1.1000e-004**		**0.0111**	**0.0111**		**0.0102**	**0.0102**	**0.0000**	**10.8436**	**10.8436**	**3.2000e-003**	**0.0000**	**10.9109**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Landscape Planting - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1347	0.0000	0.1347	0.0664	0.0000	0.0664	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1272	1.4458	0.9857	1.0900e-003		0.0714	0.0714		0.0659	0.0659	0.0000	104.6964	104.6964	0.0303	0.0000	105.3331
Total	**0.1272**	**1.4458**	**0.9857**	**1.0900e-003**	**0.1347**	**0.0714**	**0.2061**	**0.0664**	**0.0659**	**0.1323**	**0.0000**	**104.6964**	**104.6964**	**0.0303**	**0.0000**	**105.3331**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8500e-003	4.8300e-003	0.0480	8.0000e-005	0.0170	6.0000e-005	0.0171	4.3100e-003	5.0000e-005	4.3600e-003	0.0000	6.0135	6.0135	3.8000e-004	0.0000	6.0214
Total	**3.8500e-003**	**4.8300e-003**	**0.0480**	**8.0000e-005**	**0.0170**	**6.0000e-005**	**0.0171**	**4.3100e-003**	**5.0000e-005**	**4.3600e-003**	**0.0000**	**6.0135**	**6.0135**	**3.8000e-004**	**0.0000**	**6.0214**

3.7 Landscape Planting - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0525	0.0000	0.0525	0.0259	0.0000	0.0259	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1272	1.4458	0.9857	1.0900e-003		0.0714	0.0714		0.0659	0.0659	0.0000	104.6963	104.6963	0.0303	0.0000	105.3330
Total	**0.1272**	**1.4458**	**0.9857**	**1.0900e-003**	**0.0525**	**0.0714**	**0.1239**	**0.0259**	**0.0659**	**0.0918**	**0.0000**	**104.6963**	**104.6963**	**0.0303**	**0.0000**	**105.3330**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8500e-003	4.8300e-003	0.0480	8.0000e-005	0.0138	6.0000e-005	0.0139	3.5100e-003	5.0000e-005	3.5600e-003	0.0000	6.0135	6.0135	3.8000e-004	0.0000	6.0214
Total	**3.8500e-003**	**4.8300e-003**	**0.0480**	**8.0000e-005**	**0.0138**	**6.0000e-005**	**0.0139**	**3.5100e-003**	**5.0000e-005**	**3.5600e-003**	**0.0000**	**6.0135**	**6.0135**	**3.8000e-004**	**0.0000**	**6.0214**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.6596	15.8615	28.3350	0.0402	2.3395	0.5077	2.8472	0.5998	0.4742	1.0741	0.0000	3,930.4793	3,930.4793	0.1693	0.0000	3,934.0354
Unmitigated	2.7695	16.7790	29.9759	0.0432	2.5264	0.5443	3.0707	0.6477	0.5085	1.1562	0.0000	4,232.7833	4,232.7833	0.1802	0.0000	4,236.5682

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	3,327.62	630.19	324.65	7,337,535	6,794,792
Total	3,327.62	630.19	324.65	7,337,535	6,794,792

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.401351	0.114567	0.191273	0.108577	0.024306	0.008283	0.019186	0.115582	0.001077	0.001499	0.009465	0.001856	0.002978

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	366.6078	366.6078	0.0166	6.2900e-003	368.9055
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	366.6078	366.6078	0.0166	6.2900e-003	368.9055
NaturalGas Mitigated	0.0455	0.4135	0.3474	2.4800e-003		0.0314	0.0314		0.0314	0.0314	0.0000	450.1749	450.1749	8.6300e-003	8.2500e-003	452.9146
NaturalGas Unmitigated	0.0455	0.4135	0.3474	2.4800e-003		0.0314	0.0314		0.0314	0.0314	0.0000	450.1749	450.1749	8.6300e-003	8.2500e-003	452.9146

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					
General Light Industry	8.43596e+006	0.0455	0.4135	0.3474	2.4800e-003		0.0314	0.0314		0.0314	0.0314	0.0000	450.1749	450.1749	8.6300e-003	8.2500e-003	452.9146
Total		**0.0455**	**0.4135**	**0.3474**	**2.4800e-003**		**0.0314**	**0.0314**		**0.0314**	**0.0314**	**0.0000**	**450.1749**	**450.1749**	**8.6300e-003**	**8.2500e-003**	**452.9146**

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					
General Light Industry	8.43596e+006	0.0455	0.4135	0.3474	2.4800e-003		0.0314	0.0314		0.0314	0.0314	0.0000	450.1749	450.1749	8.6300e-003	8.2500e-003	452.9146
Total		**0.0455**	**0.4135**	**0.3474**	**2.4800e-003**		**0.0314**	**0.0314**		**0.0314**	**0.0314**	**0.0000**	**450.1749**	**450.1749**	**8.6300e-003**	**8.2500e-003**	**452.9146**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.26038e+006	366.6078	0.0166	6.2900e-003	368.9055
Total		**366.6078**	**0.0166**	**6.2900e-003**	**368.9055**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.26038e+006	366.6078	0.0166	6.2900e-003	368.9055
Total		**366.6078**	**0.0166**	**6.2900e-003**	**368.9055**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.1969	4.0000e-005	4.5900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5300e-003	8.5300e-003	3.0000e-005	0.0000	9.0700e-003
Unmitigated	2.1969	4.0000e-005	4.5900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5300e-003	8.5300e-003	3.0000e-005	0.0000	9.0700e-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	tons/yr										MT/yr					
Architectural Coating	0.3319					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8646					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.6000e-004	4.0000e-005	4.5900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5300e-003	8.5300e-003	3.0000e-005	0.0000	9.0700e-003
Total	**2.1969**	**4.0000e-005**	**4.5900e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**8.5300e-003**	**8.5300e-003**	**3.0000e-005**	**0.0000**	**9.0700e-003**

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	0.3319					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8646					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.6000e-004	4.0000e-005	4.5900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5300e-003	8.5300e-003	3.0000e-005	0.0000	9.0700e-003
Total	**2.1969**	**4.0000e-005**	**4.5900e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**8.5300e-003**	**8.5300e-003**	**3.0000e-005**	**0.0000**	**9.0700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Use Water Efficient Irrigation System

Use Water Efficient Landscaping

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,406.3233	74.2204	1.8121	6,526.7006
Unmitigated	4,415.7956	74.2209	1.8123	6,536.2323

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	2347.45 / 0	4,415.7956	74.2209	1.8123	6,536.2323
Total		**4,415.7956**	**74.2209**	**1.8123**	**6,536.2323**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	2347.45 / 0	4,406.3233	74.2204	1.8121	6,526.7006
Total		**4,406.3233**	**74.2204**	**1.8121**	**6,526.7006**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2,819.1050	166.6043	0.0000	6,317.7960
Unmitigated	5,638.2100	333.2087	0.0000	12,635.5920

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	27775.7	5,638.2100	333.2087	0.0000	12,635.5920
Total		**5,638.2100**	**333.2087**	**0.0000**	**12,635.5920**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	13887.8	2,819.1050	166.6043	0.0000	6,317.7960
Total		**2,819.1050**	**166.6043**	**0.0000**	**6,317.7960**

9.0 Operational Offroad

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

10.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	83.3200	0.0000	0.0000	83.3200

10.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	5.13 / 5.13	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

10.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Cedar/Larch	130	68.6400	0.0000	0.0000	68.6400
Mixed Hardwood	20	14.6800	0.0000	0.0000	14.6800
Total		**83.3200**	**0.0000**	**0.0000**	**83.3200**

APPENDIX B

CALEEMOD REPORT 2020

Sunnyview Yard

San Joaquin Valley Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
General Light Industry	477.42	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Utility Company**	Southern California Edison
Climate Zone	7	**Precipitation Freq (Days)**	45		

1.3 User Entered Comments

Project Characteristics -

Land Use -

Construction Phase - Full construction will not be occuring on the site. Exisitng Machinery from an existing site will be transported and installed at the proposed location. The project building will merely consist of a 1,600 S.F. Modular Building.

Off-road Equipment - No Paving equipment is necessary for landscape planting.

Road Dust -

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Water Mitigation -

Waste Mitigation -

Trips and VMT - The paving required for the project will be provided from the on site asphlat plant and will eliminate trips that would have otherwide been required.

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.15	1.04	0.92	0.00	0.19	0.05	0.23	0.08	0.05	0.12	0.00	193.81	193.81	0.01	0.00	194.06
Total	**0.15**	**1.04**	**0.92**	**0.00**	**0.19**	**0.05**	**0.23**	**0.08**	**0.05**	**0.12**	**0.00**	**193.81**	**193.81**	**0.01**	**0.00**	**194.06**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.15	1.04	0.92	0.00	0.09	0.05	0.14	0.03	0.05	0.08	0.00	193.81	193.81	0.01	0.00	194.06
Total	**0.15**	**1.04**	**0.92**	**0.00**	**0.09**	**0.05**	**0.14**	**0.03**	**0.05**	**0.08**	**0.00**	**193.81**	**193.81**	**0.01**	**0.00**	**194.06**

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	2.20	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.05	0.41	0.35	0.00		0.00	0.03		0.00	0.03	0.00	816.79	816.79	0.03	0.01	821.83
Mobile	2.30	10.88	18.83	0.04	3.81	0.32	4.13	0.07	0.30	0.37	0.00	3,974.32	3,974.32	0.13	0.00	3,977.01
Waste						0.00	0.00		0.00	0.00	5,638.21	0.00	5,638.21	333.21	0.00	12,635.59
Water						0.00	0.00		0.00	0.00	0.00	3,720.97	3,720.97	71.82	1.84	5,799.75
Total	**4.55**	**11.29**	**19.18**	**0.04**	**3.81**	**0.32**	**4.16**	**0.07**	**0.30**	**0.40**	**5,638.21**	**8,512.08**	**14,150.29**	**405.19**	**1.85**	**23,234.18**

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	2.20	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.05	0.41	0.35	0.00		0.00	0.03		0.00	0.03	0.00	816.79	816.79	0.03	0.01	821.83
Mobile	2.19	10.41	17.84	0.04	3.53	0.30	3.83	0.07	0.28	0.35	0.00	3,698.09	3,698.09	0.12	0.00	3,700.62
Waste						0.00	0.00		0.00	0.00	2,819.10	0.00	2,819.10	166.60	0.00	6,317.80
Water						0.00	0.00		0.00	0.00	0.00	3,720.97	3,720.97	71.82	1.84	5,799.75
Total	**4.44**	**10.82**	**18.19**	**0.04**	**3.53**	**0.30**	**3.86**	**0.07**	**0.28**	**0.38**	**2,819.10**	**8,235.85**	**11,054.95**	**238.57**	**1.85**	**16,640.00**

2.3 Vegetation

Vegetation

	ROG	NOx	CO	SO2	CO2e
Category	tons				MT
New Trees					134.10
Vegetation Land Change					0.00
Total					**134.10**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.03	0.00	0.03	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.07	0.05	0.00		0.00	0.00		0.00	0.00	0.00	10.88	10.88	0.00	0.00	10.90
Total	**0.01**	**0.07**	**0.05**	**0.00**	**0.03**	**0.00**	**0.03**	**0.01**	**0.00**	**0.01**	**0.00**	**10.88**	**10.88**	**0.00**	**0.00**	**10.90**

3.2 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19	0.00	0.00	0.19
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.19**	**0.19**	**0.00**	**0.00**	**0.19**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.01	0.07	0.05	0.00		0.00	0.00		0.00	0.00	0.00	10.88	10.88	0.00	0.00	10.90
Total	**0.01**	**0.07**	**0.05**	**0.00**	**0.01**	**0.00**	**0.01**	**0.01**	**0.00**	**0.01**	**0.00**	**10.88**	**10.88**	**0.00**	**0.00**	**10.90**

3.2 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.19	0.00	0.00	0.19
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.19**	**0.19**	**0.00**	**0.00**	**0.19**

3.3 Machine Installation - 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	0.01	0.06	0.08	0.00		0.00	0.00		0.00	0.00	0.00	12.83	12.83	0.00	0.00	12.84
Total	**0.01**	**0.06**	**0.08**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**12.83**	**12.83**	**0.00**	**0.00**	**12.84**

3.3 Machine Installation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.86	6.86	0.00	0.00	6.86
Worker	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	5.02	5.02	0.00	0.00	5.03
Total	**0.00**	**0.03**	**0.04**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**11.88**	**11.88**	**0.00**	**0.00**	**11.89**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.01	0.06	0.08	0.00		0.00	0.00		0.00	0.00	0.00	12.83	12.83	0.00	0.00	12.84
Total	**0.01**	**0.06**	**0.08**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**12.83**	**12.83**	**0.00**	**0.00**	**12.84**

3.3 Machine Installation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.86	6.86	0.00	0.00	6.86
Worker	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	5.02	5.02	0.00	0.00	5.03
Total	**0.00**	**0.03**	**0.04**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**11.88**	**11.88**	**0.00**	**0.00**	**11.89**

3.4 Modular Installation - 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	0.03	0.16	0.20	0.00		0.01	0.01		0.01	0.01	0.00	32.98	32.98	0.00	0.00	33.02
Total	**0.03**	**0.16**	**0.20**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**32.98**	**32.98**	**0.00**	**0.00**	**33.02**

3.4 Modular Installation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	17.63	17.63	0.00	0.00	17.64
Worker	0.01	0.01	0.06	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	12.92	12.92	0.00	0.00	12.93
Total	**0.02**	**0.08**	**0.10**	**0.00**	**0.03**	**0.00**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**	**30.55**	**30.55**	**0.00**	**0.00**	**30.57**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.03	0.16	0.20	0.00		0.01	0.01		0.01	0.01	0.00	32.98	32.98	0.00	0.00	33.02
Total	**0.03**	**0.16**	**0.20**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**32.98**	**32.98**	**0.00**	**0.00**	**33.02**

3.4 Modular Installation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.01	0.07	0.04	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	17.63	17.63	0.00	0.00	17.64
Worker	0.01	0.01	0.06	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	12.92	12.92	0.00	0.00	12.93
Total	**0.02**	**0.08**	**0.10**	**0.00**	**0.02**	**0.00**	**0.03**	**0.00**	**0.00**	**0.00**	**0.00**	**30.55**	**30.55**	**0.00**	**0.00**	**30.57**

3.5 Paving - 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	0.02	0.11	0.10	0.00		0.01	0.01		0.01	0.01	0.00	13.23	13.23	0.00	0.00	13.26
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.02**	**0.11**	**0.10**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**13.23**	**13.23**	**0.00**	**0.00**	**13.26**

3.5 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.02	0.11	0.10	0.00		0.01	0.01		0.01	0.01	0.00	13.23	13.23	0.00	0.00	13.26
Paving	0.00					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.02**	**0.11**	**0.10**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**	**0.00**	**13.23**	**13.23**	**0.00**	**0.00**	**13.26**

3.5 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.6 Landscape Planting - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.11	0.00	0.11	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.07	0.53	0.33	0.00		0.02	0.02		0.02	0.02	0.00	78.05	78.05	0.01	0.00	78.17
Total	**0.07**	**0.53**	**0.33**	**0.00**	**0.11**	**0.02**	**0.13**	**0.06**	**0.02**	**0.08**	**0.00**	**78.05**	**78.05**	**0.01**	**0.00**	**78.17**

3.6 Landscape Planting - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	3.21	3.21	0.00	0.00	3.22
Total	**0.00**	**0.00**	**0.02**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**3.21**	**3.21**	**0.00**	**0.00**	**3.22**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.04	0.00	0.04	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
Off-Road	0.07	0.53	0.33	0.00		0.02	0.02		0.02	0.02	0.00	78.05	78.05	0.01	0.00	78.17
Total	**0.07**	**0.53**	**0.33**	**0.00**	**0.04**	**0.02**	**0.06**	**0.02**	**0.02**	**0.04**	**0.00**	**78.05**	**78.05**	**0.01**	**0.00**	**78.17**

3.6 Landscape Planting - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	3.21	3.21	0.00	0.00	3.22
Total	**0.00**	**0.00**	**0.02**	**0.00**	**0.01**	**0.00**	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**3.21**	**3.21**	**0.00**	**0.00**	**3.22**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.19	10.41	17.84	0.04	3.53	0.30	3.83	0.07	0.28	0.35	0.00	3,698.09	3,698.09	0.12	0.00	3,700.62
Unmitigated	2.30	10.88	18.83	0.04	3.81	0.32	4.13	0.07	0.30	0.37	0.00	3,974.32	3,974.32	0.13	0.00	3,977.01
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	3,327.62	630.19	324.65	7,337,535	6,794,792
Total	3,327.62	630.19	324.65	7,337,535	6,794,792

4.3 Trip Type Information

	Miles			Trip %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00

5.0 Energy Detail

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						0.00	0.00		0.00	0.00	0.00	366.61	366.61	0.02	0.01	368.91
Electricity Unmitigated						0.00	0.00		0.00	0.00	0.00	366.61	366.61	0.02	0.01	368.91
NaturalGas Mitigated	0.05	0.41	0.35	0.00		0.00	0.03		0.00	0.03	0.00	450.18	450.18	0.01	0.01	452.92
NaturalGas Unmitigated	0.05	0.41	0.35	0.00		0.00	0.03		0.00	0.03	0.00	450.18	450.18	0.01	0.01	452.92
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	tons/yr										MT/yr					
General Light Industry	8.43601e+006	0.05	0.41	0.35	0.00		0.00	0.03		0.00	0.03	0.00	450.18	450.18	0.01	0.01	452.92
Total		**0.05**	**0.41**	**0.35**	**0.00**		**0.00**	**0.03**		**0.00**	**0.03**	**0.00**	**450.18**	**450.18**	**0.01**	**0.01**	**452.92**

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	tons/yr										MT/yr					
General Light Industry	8.43601e+006	0.05	0.41	0.35	0.00		0.00	0.03		0.00	0.03	0.00	450.18	450.18	0.01	0.01	452.92
Total		**0.05**	**0.41**	**0.35**	**0.00**		**0.00**	**0.03**		**0.00**	**0.03**	**0.00**	**450.18**	**450.18**	**0.01**	**0.01**	**452.92**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
General Light Industry	1.26039e+006					366.61	0.02	0.01	368.91
Total						**366.61**	**0.02**	**0.01**	**368.91**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	kWh	tons/yr				MT/yr			
General Light Industry	1.26039e+006					366.61	0.02	0.01	368.91
Total						**366.61**	**0.02**	**0.01**	**368.91**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.20	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unmitigated	2.20	0.00	0.00	0.00		0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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	0.33					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.86					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	0.00	0.00
Total	**2.19**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	0.33					0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.86					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	0.00	0.00
Total	**2.19**	**0.00**	**0.00**	**0.00**		**0.00**	**0.00**		**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr				MT/yr			
Mitigated					3,720.97	71.82	1.84	5,799.75
Unmitigated					3,720.97	71.82	1.84	5,799.75
Total	NA	NA	NA	NA	NA	NA	NA	NA

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
General Light Industry	2347.45 / 0					3,720.97	71.82	1.84	5,799.75
Total						**3,720.97**	**71.82**	**1.84**	**5,799.75**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr				MT/yr			
General Light Industry	2347.45 / 0					3,720.97	71.82	1.84	5,799.75
Total						**3,720.97**	**71.82**	**1.84**	**5,799.75**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	tons/yr				MT/yr			
Mitigated					2,819.10	166.60	0.00	6,317.80
Unmitigated					5,638.21	333.21	0.00	12,635.59
Total	NA	NA	NA	NA	NA	NA	NA	NA

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
General Light Industry	27775.7					5,638.21	333.21	0.00	12,635.59
Total						**5,638.21**	**333.21**	**0.00**	**12,635.59**

Mitigated

	Waste Disposed	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr				MT/yr			
General Light Industry	13887.8					2,819.10	166.60	0.00	6,317.80
Total						**2,819.10**	**166.60**	**0.00**	**6,317.80**

9.0 Vegetation

	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
Category	tons				MT			
Unmitigated					134.10	0.00	0.00	134.10
Total	NA	NA	NA	NA	NA	NA	NA	NA

9.1 Vegetation Land Change

Vegetation Type

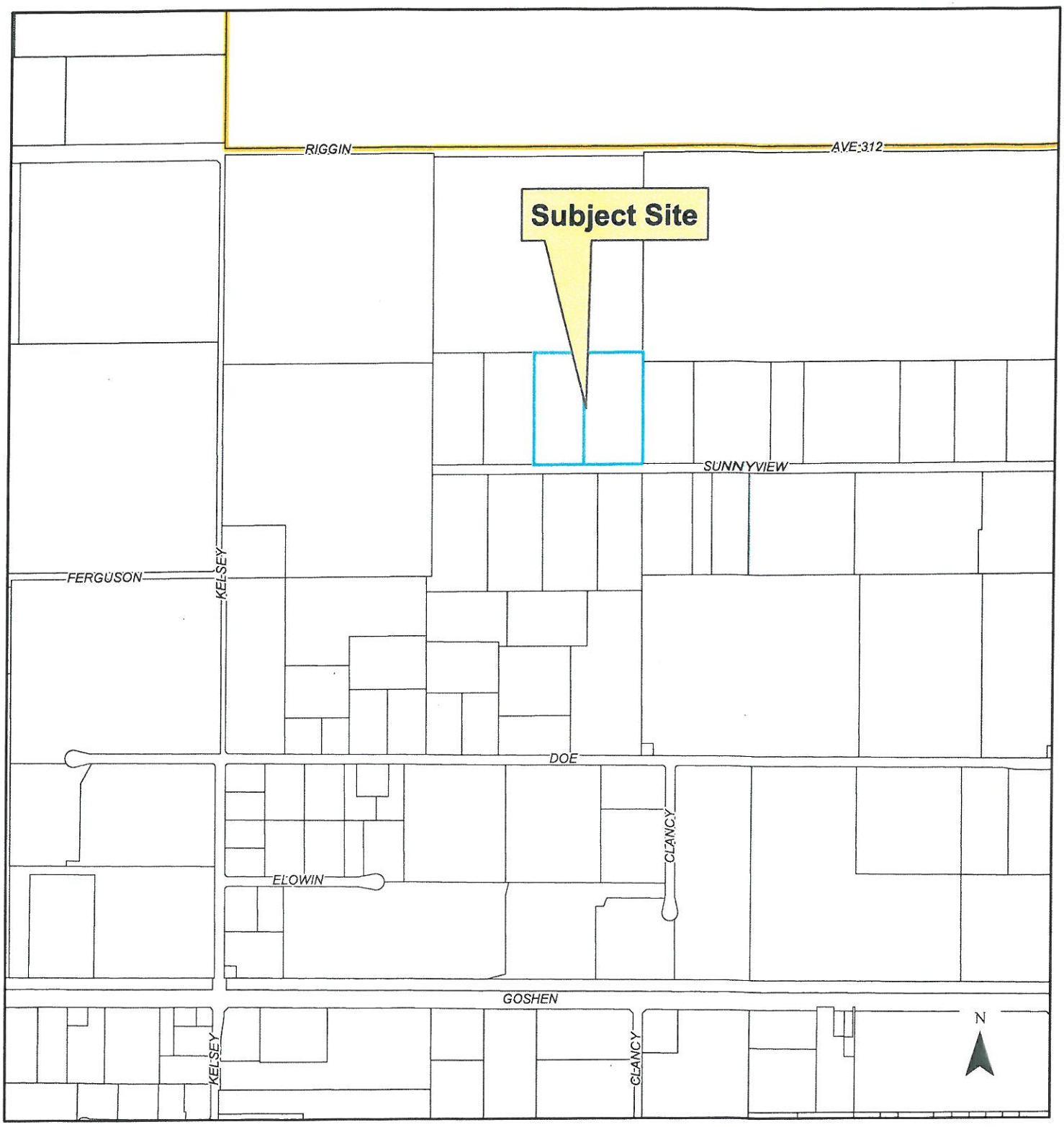
	Initial/Final	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
	Acres	tons				MT			
Grassland	5.13 / 5.13					0.00	0.00	0.00	0.00
Total						**0.00**	**0.00**	**0.00**	**0.00**

9.1 Net New Trees

Species Class

	Number of Trees	ROG	NOx	CO	SO2	Total CO2	CH4	N2O	CO2e
		lons				MT			
Douglas Fir	150					134.10	0.00	0.00	134.10
Total						**134.10**	**0.00**	**0.00**	**134.10**

City of Visalia



Location Map