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February 3, 2021

Tammy Martin, REHS  
SMA  
Steve Martin Associates, Inc.  
130 S. Main Street, Suite 201  
Sebastopol, CA 95472

**VIA E-Mail:** [tammy@smassociates.net](mailto:tammy@smassociates.net)

**SUBJECT:** **Caneros Vintners, Sonoma County, CA**  
**Greenhouse Gas Emissions Analysis – I&R #21-009**

Dear Tammy:

This letter presents the evaluation of greenhouse gas (GHG) emissions associated with the proposed expansion of the Caneros Vintners facility at 4200 Stage Gulch Road in Sonoma County. The project is located in the portion of the Bay Area where air quality is regulated by the Bay Area Air Quality Management District (BAAQMD).

### **Project Description**

Caneros Vintners received an approved Use Permit in April 2007 (PLP02-0085) with an annual production capacity of 250,000 cases of wine, public tastings, a 52,000 square foot (sf) winery facility, a 4,200-sf hospitality building (existing barn reconstruction), and 1,260 sf office/tasting building (existing house conversion). The 52,000-sf winery building was constructed and is currently producing 250,000 cases of wine for custom crush customers. The Phase II public tasting has never been implemented. The proposed Use Permit Modification seeks to allow additional grape crushing and wine production as a bulk wine/custom crush service of up to 2.5 million cases and eliminate the public tours and tastings uses approved with the current winery Use Permit.

GHG emissions associated with the winery use were computed for three scenarios:

1. Existing operations that produces 250,000 cases per year (Existing);
2. Full operation under the approved Use Permit that produces 250,000 cases per year plus a hospitality component (Permitted); and
3. Full operation of the proposed Use Permit that would produce up to 2,500,000 cases per year with no hospitality component (Proposed).

The increase in production would be accommodated within the existing 52,000-sf winery building and within a proposed new 22,000 sf production building. Due to the elimination of public tours, the 1,260-sf office/tasting room will be eliminated. The existing 4,250-sf barn will remain as

winery storage but will not include any hospitality use.

## **Setting and Regulatory Background**

The project is located in the San Francisco Bay Area Air Basin. The Bay Area Air Quality Management District's (BAAQMD) California Environmental Quality Act (CEQA) Air Quality Guidelines to assess air quality and GHG emissions from land use projects. This analysis was conducted following guidance provided by BAAQMD.<sup>1</sup>

Global temperatures are affected by naturally occurring and anthropogenic-generated (generated by humankind) atmospheric gases, such as water vapor, carbon dioxide, methane, and nitrous oxide. Gases that trap heat in the atmosphere are called GHGs. Solar radiation enters the earth's atmosphere from space, and a portion of the radiation is absorbed at the surface. The earth emits this radiation back toward space as infrared radiation. GHGs, which are mostly transparent to incoming solar radiation, are effective in absorbing infrared radiation and redirecting some of this back to the earth's surface. As a result, this radiation that otherwise would have escaped back into space is now retained, resulting in a warming of the atmosphere. This is known as the greenhouse effect.

The greenhouse effect helps maintain a habitable climate. Emissions of GHGs from human activities, such as electricity production, motor vehicle use and agriculture, are elevating the concentration of GHGs in the atmosphere, and are reported to have led to a trend of unnatural warming of the earth's natural climate, known as global warming or global climate change. The term "global climate change" is often used interchangeably with the term "global warming," but "global climate change" is preferred because it implies that there are other consequences to the global climate in addition to rising temperatures. Other than water vapor, the primary GHGs contributing to global climate change include the following gases:

- CO<sub>2</sub>, primarily a byproduct of fuel combustion;
- Nitrous oxide (N<sub>2</sub>O), a byproduct of fuel combustion; also associated with agricultural operations such as the fertilization of crops;
- Methane (CH<sub>4</sub>), commonly created by off-gassing from agricultural practices (e.g. livestock), wastewater treatment and landfill operations;
- Chlorofluorocarbons (CFCs) were used as refrigerants, propellants and cleaning solvents, but their production has been mostly prohibited by international treaty;
- Hydrofluorocarbons (HFCs) are now widely used as a substitute for chlorofluorocarbons in refrigeration and cooling; and
- Perfluorocarbons (PFCs) and sulfur hexafluoride (SF<sub>6</sub>) emissions are commonly created by industries such as aluminum production and semiconductor manufacturing.

These gases vary considerably in terms of Global Warming Potential (GWP), a term developed to compare the propensity of each GHG to trap heat in the atmosphere relative to another GHG. GWP is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation

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<sup>1</sup> BAAQMD, 2017. *BAAQMD CEQA Air Quality Guidelines*. May.

and the length of time of gas remains in the atmosphere. The GWP of each GHG is measured relative to CO<sub>2</sub>. Accordingly, GHG emissions are typically measured and reported in terms of equivalent CO<sub>2</sub> (CO<sub>2</sub>e). For instance, SF<sub>6</sub> is 22,800 times more intense in terms of global climate change contribution than CO<sub>2</sub>.

The State of California is addressing the issue of GHG through legislation, policy guidance, and outreach programs. CO<sub>2</sub> is the primary GHG emitted from land use and industrial projects. In 2006 California enacted AB 32 – the Global Warming Solutions Act, which requires that statewide GHG emissions be reduced to 1990 levels by 2020. In 2008, the California Air Resources Board (CARB) adopted the Climate Change Scoping Plan in response to AB 32. This plan describes the strategies that the State will implement to reduce future emissions by 28% to meet the 1990 target goal in 2020. BAAQMD’s analysis of future land use development in the Bay Area and applicable AB 32 GHG reduction strategies lead to the development of emission-based significance thresholds for the projects in the Bay Area, which are also used in Sonoma County.

### Climate Action 2020 and Beyond – Sonoma County Regional Climate Action Plan

Climate Action 2020 and Beyond is a regional climate action plan (CAP) established by Sonoma County to reduce GHG emissions.<sup>2</sup> The CAP was published in July 2016. According to the County CAP, the county emitted approximately 3,944,000 MT CO<sub>2</sub>e in the year 2010. This countywide inventory identified that 53 percent of the emissions were due to on-road transportation, 34 percent came from building energy, 7 percent came from fertilizer and livestock, 4 percent came from solid waste, 2 percent came from off-road transportation and equipment, and less than one percent was due to wastewater treatment and water conveyance. Transportation and building energy are the biggest GHG emissions sources in Sonoma County.

The CAP includes measures to reduce GHG emissions by 25 percent below 1990 levels by 2020, which is the primary goal. The CAP’s long-term goals include to reduce GHG emissions by 40 percent in 2030 and by 80 percent in 2050. The CAP includes goals and GHG reduction measures for six different GHG sources. Additionally, the CAP includes per capita targets to assess whether the long-term goals are being met. The 2020 County Target is 5.8 MT CO<sub>2</sub>e per capita, while the 2040 and 2050 targets are 2.6 and 1.3 MT CO<sub>2</sub>e per capita, respectively. The CAP also includes a consistency checklist listed as *Appendix A Climate Action 2020 Community Climate Action Plan Consistency Checklist Template* as a tool for local agencies to evaluate consistency with the CAP.<sup>3</sup> However, this CAP is not a valid CAP, and therefore not used for CEQA purposes.<sup>4</sup>

### BAAQMD CEQA Thresholds

The BAAQMD Air Quality CEQA Guidelines include a bright-line emissions threshold of 1,100 metric tons (MT) of CO<sub>2</sub>e or an emission efficiency metric of 4.6 MT of CO<sub>2</sub>e per year per service population (future residences and full-time workers) if the bright-line threshold is exceeded. Projects that have emissions below 1,100 MT of CO<sub>2</sub>e per year, or 4.6 MT of CO<sub>2</sub>e per year per

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<sup>2</sup> Sonoma County Regional Climate Protection Authority, 2016. *Climate Action 2020 and Beyond*. July. Web: [https://rcpa.ca.gov/wp-content/uploads/2016/07/CA2020\\_Plan\\_7-7-16\\_web.pdf](https://rcpa.ca.gov/wp-content/uploads/2016/07/CA2020_Plan_7-7-16_web.pdf)

<sup>3</sup> Sonoma County Regional Climate Protection Authority, 2016. *Climate Action 2020 and Beyond Appendices*. July. Web: [https://rcpa.ca.gov/wp-content/uploads/2016/07/CA2020\\_Appendices\\_7-7-16\\_web.pdf](https://rcpa.ca.gov/wp-content/uploads/2016/07/CA2020_Appendices_7-7-16_web.pdf)

<sup>4</sup> Sonoma County, 2018. *Resolution Number 18-0166*. May.

capita, are considered to have less-than-significant GHG emissions. For this analysis, only the metric ton threshold of 1,100 MT of CO<sub>2e</sub> per year would apply.

## **Project Emissions**

GHG emissions are based on the CalEEMod modeling. The California Emissions Estimator Model, Version 2016.3.2 (CalEEMod) was used to estimate construction and operational emissions. CalEEMod is a computer model developed by the South Coast Air Quality Management District with cooperation of other California Air Districts to estimate air pollutant and GHG emissions from land use development projects. The model is recommended by BAAQMD for use in estimating emissions from land use development projects. The model accounts for emissions from construction equipment and traffic during construction and traffic, energy usage, water usage, solid waste generation, stationary equipment (i.e., boilers) and off-road equipment (i.e., forklifts).

### Construction Emissions

Construction emissions were based on model CalEEMod default conditions for construction of a 22,000-sf manufacturing building and about 0.66 acre of asphalt surfaces. Construction period GHG emissions are predicted to be 283 metric tons (MT). There are no construction GHG emissions thresholds to compare project construction GHG emissions against.

### Operational Emissions

Project operational emissions of carbon dioxide would result from a combination of traffic, energy usage, water usage, solid waste generation and combustion equipment. Biogenic emissions would be generated by fermentation of grapes to make wine; however, these are considered biogenic and not included in the project total emissions. CalEEMod was used to model direct and indirect land use emissions caused by the project. Annual GHG emissions were computed for the Existing, Permitted, and Proposed operation conditions.

### *CalEEMod Modeling*

CalEEMod was used to estimate full build-out operational GHG emissions. Unless otherwise noted below, the model defaults for the Sonoma County – San Francisco Bay Area were used. The year 2023 was used for modeling, as this was assumed to be the earliest the project could be fully operational. Annual emissions occurring after 2023 would be lower as vehicle and electricity production emission rates are anticipated to continually decrease.

### *Operational Trip Emissions*

Forecasted project trip generation rates provided by the traffic consultant were applied to the wine tasting room land use.<sup>5</sup> However, the trip generation rates were adjusted to the project land uses and broken down by passenger trips and truck trips. Passenger trips were assumed to be made up of light-duty automobile, light-duty trucks, and medium-duty vehicle classes. Truck traffic was assumed to be made up of medium heavy-duty and heavy heavy-duty trucks. CalEEMod default

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<sup>5</sup> W-Trans, 2019. *Traffic Study for the Carneros Vintners Winery Use Permit Modification*. July.

trip lengths were used.

### *EMFAC2017 Adjustment*

The CalEEMod model uses mobile emission factors from the California Air Resources Board's older EMISSION FACTORS (EMFAC) 2014 model. EMFAC2017 became available for use in March 2018 and approved by the EPA in August 2019. It includes the latest data on California's car and truck fleets and travel activity. Additionally, CARB has recently released EMFAC off-model adjustment factors to account for the Safer Affordable Efficient (SAFE) Vehicle Rule Part one.<sup>6,7</sup> The SAFE vehicle Rule Part One revoked California's authority to set its own GHG emission standards and set zero emission vehicle mandates in California. As a result of this ruling, mobile criteria pollutant and GHG emissions would increase. Therefore, the CalEEMod vehicle emission factors and fleet mix were updated with the emission rates and fleet mix from EMFAC2017, which were adjusted with the CARB EMFAC off-model adjustment factors. More details about the updates in emissions calculation methodologies and data are available in the EMFAC2017 Technical Support Document.<sup>8</sup>

### *Energy, Natural Gas, and Solid Waste Production*

CalEEMod defaults for energy use were overwritten using projected electricity usage for each modeled condition. The model has a default intensity rate of 641.3 pounds of CO<sub>2</sub> per megawatt of electricity produced, which is based on the Pacific, Gas and Electric Company's (PG&E) 2008 emissions rate. However, the project acquires electricity from Sonoma Clean Energy, which has a rate of 98 pounds CO<sub>2</sub> per megawatt of electricity delivered in the year 2018.<sup>9</sup>

Default model assumptions for emissions associated with solid waste generation use were applied to the project.

### *Water Usage*

Water/wastewater use estimates were entered into CalEEMod along with the types of treatment that would occur. Domestic wastewater would be treated through septic systems while winery waste water would be treated using facultative lagoons and spray fields.

### *Natural Gas*

A 4.5-mBtu rated boiler is currently used for 10 hours per week for 2 months or 8 weeks per year. This boiler was accounted for as "Stationary Equipment" in CalEEMod.

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<sup>6</sup> California Air Resource Board, 2019. *EMFAC Off-Model Adjustment Factors to Account for the SAFE Vehicle Rule Part One*. November. Web: [https://ww3.arb.ca.gov/msei/emfac\\_off\\_model\\_adjustment\\_factors\\_final\\_draft.pdf](https://ww3.arb.ca.gov/msei/emfac_off_model_adjustment_factors_final_draft.pdf)

<sup>7</sup> California Air Resource Board, 2020. *EMFAC Off-Model Adjustment Factors for Carbon Dioxide (CO<sub>2</sub>) Emissions to Accounts for the SAFE Vehicles Rule Part One and the Final SAFE Rule*. June. Web:

[https://ww3.arb.ca.gov/msei/emfac\\_off\\_model\\_co2\\_adjustment\\_factors\\_06262020-final.pdf?utm\\_medium=email&utm\\_source=govdelivery](https://ww3.arb.ca.gov/msei/emfac_off_model_co2_adjustment_factors_06262020-final.pdf?utm_medium=email&utm_source=govdelivery)

<sup>8</sup> See CARB 2018: <https://ww2.arb.ca.gov/our-work/programs/mobile-source-emissions-inventory/road-documentation/msei-modeling-tools-emfac>

<sup>9</sup> SCE, 2021. Website: <https://sonomacleanpower.org/power-sources> Accessed 1/29/2021.

*Off-Road Equipment*

The facility currently operates 8 forklifts about 4 hours per day. That activity is assumed to remain under permitted conditions. Under the Proposed conditions, there would be 12 forklifts. These were accounted as “Off-Road Equipment” in CalEEMod. A 5,000-pound forklift using CNG was assumed that is rated at 60 horsepower.

Wine Fermentation

The emissions calculations do not include biogenic emissions such as wine fermentation. These emissions are considered part of the natural carbon cycle associated with grape growing that does not occur at the Project site.

Summary of Operational Criteria Pollutants and GHG Emissions

Table 1 presents the results of this assessment. BAAQMD does not provide any guidance for assessing emissions from wineries, other than use of CalEEMod. The wine industry considers fermentation emissions to be biogenic and part of the natural carbon cycle associated with farming of grapes. Farming of grapes does not occur as part of the proposed project.

**Table 1. Annual Operational GHG Emissions (MT CO<sub>2</sub>e/Year)**

Source	Existing	Permitted	Proposed	Methodology
Area	0	0	0	Based on CalEEMod default
Energy Consumption	4	4	5	Based on electricity only of 80,000 kW/yr for existing and permitted and 120,000 kW for Proposed, adjusted to SCE verified intensity rate for electricity
Mobile	27	113	312	CalEEMod modified with EMFAC2017 using projected daily traffic generation broken down by cars and trucks.
Off Road Equipment	48	48	72	CalEEMod for 5000-lb forklift using CNG. 8 forklifts for Existing and Permitted and 12 forklifts for Proposed
Stationary Equipment	27	27	37	Based on CalEEMod for 4.5 MBTU-rated boiler 10 hrs/week for 8 weeks
Water and wastewater	11	11	58	Based on CalEEMod using estimated domestic flow for septic system and winery flow for lagoons/spray fields
Solid Waste	27	27	37	Based on CalEEMod default
<b>Project Total</b>	<b>120</b>	<b>206</b>	<b>488</b>	
<b>Increase over existing</b>			<b>368</b>	
<b>Increase over permitted</b>			<b>282</b>	
<b>BAAQMD Threshold</b>			<b>1,100 MT CO<sub>2</sub>e/Year</b>	
<i>Exceed Threshold?</i>			<i>No</i>	

\* \* \*

This concludes our assessment of the GHG emissions from this project. If you have any questions or comments, please feel free to contact me at (707) 794-0400 x106. We appreciate the opportunity to assist you.

Sincerely,

James A. Reyff  
Principal Consultant  
***Illingworth & Rodkin, Inc.***  
21-009

Attachment 1: CalEEMod Outputs

# Attachment 1: CalEEMod Outputs, EMFAC2017 Outputs, and Wine Fermentation Worksheets

Caneros Vintners Winery Use Permit Modification			
GHG Modeling Inputs/Data Request			
<b>Wine Process</b>			
<u>For existing and permitted, we are assuming:</u>			
250,000 cases full production (crush, ferment, store and bottle)			
Fermented Total:	250,000 cases		
% Red?	50%	%White?	50%
<u>For Proposed:</u>			
55,000 cases full production (crush, ferment, store and bottle)			
289,000 cases crushed and hauled (no fermentation or storage)			
1,056,000 cases crush, fermentation and then hauled in bulk			
300,000 cases Lees wine (filtered and bottled on site - <b>no fermentation</b> )			
800,000 cases bottled only			
Total = 2,500,000 cases			
Fermented Total:	1,111,000 cases		
% Red?	50%	%White?	50%
<b>Wastewater (annual gallons)</b>			
<u>For existing the flows are as follows:</u>			
Domestic to septic office/public/tasting?	84,863 gallons		of domestic / sanitary wastewater generated by 15 employees & 3 business visitors on average
Treatment (ponds) Wine production?	1,200,000 gallons		of winery process wastewater generated from 250,000 cases annual production
<u>For permitted the flows would have been as follows:</u>			
Domestic to septic office/public/tasting?	197,100 gallons		Notes: they are permitted for a Phase 2 hospitality component, but have never implemented.
Treatment (ponds) Wine production?	1,200,000 gallons		of domestic / sanitary wastewater generated by 24 employees and 60 tasting room visitors on average.
<u>For Proposed:</u>			
Domestic to septic office?	84,500 gallons		of domestic / sanitary wastewater generated by 15 employees & 3 business visitors on average. See WW
Treatment (ponds) Wine production?	6,259,200 gallons		of winery process wastewater generated from the above noted mix of production types. See WWFS.
<b>Water</b>			
<u>For existing and permitted, we are assuming:</u>			
Domestic + treatment wastewater	1,284,863 gallons		
<u>For Permitted the water use would have been:</u>			
Domestic + treatment wastewater	1,397,100 gallons		
<u>For Proposed:</u>			
Domestic + treatment wastewater	6,343,700 gallons		
<b>Electricity Usage (if known or can be estimated)</b>			
<u>Existing:</u>	80,000 kw/hr/year		
<u>Future:</u>	120,000 kw/hr/year		
Electricity Provider	PG&E	utility or provider (e.g., So	Description via Sonoma Clean Energy
Solar?	n/a	describe size	Description
<b>Combustion Equipment (construction type, diesel generators, boilers)</b>			
<u>Existing:</u>			
Forklifts	8 qty	Description	propane/4hrs/day/260 days
Other (describe)	boiler	Description	4.5 million btu in use for 10 hours/week for 2 months
Diesel stationary engines	n/a	qty	Description
<i>-include size and fuel type</i>			
<u>Proposed:</u>			
Forklifts	12 qty	Description	propane/4hrs/day/260 days
Other (describe)	boiler	Description	4.5 million btu in use for 20 hours/week for 2 months
Diesel stationary engines	n/a	qty	Description
<i>-include size and fuel type</i>			
<b>Traffic (average daily based on annual inputs)</b>			
<u>Existing:</u>	45 cars	3 trucks	from W-Trans
<u>Permitted:</u>	72 cars	19 trucks	
<u>Proposed:</u>	51 cars	64 trucks	



Caneros Vintners Proposed Project Operation - Sonoma-San Francisco County, Annual

**Caneros Vintners Proposed Project Operation  
Sonoma-San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	78.25	1000sqft	1.80	78,250.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	75
<b>Climate Zone</b>	4			<b>Operational Year</b>	2023
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MW hr)</b>	98.81	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - Sonoma Clean Energy

Land Use - Assume production is 52ksf+22ksf(new)+4.25ksf(barn storage) = 78.25ksf

Construction Phase - Operational run

Off-road Equipment - operational run

Vehicle Trips - Total = 115/78.25 = 1.47 trips/ksf

Energy Use - No natural gas (see boiler) and 120,000kw/hr electricity

Water And Wastewater - 6343700 total Domestic = 84,500 and wine prod = 6259200 gallons (1.3%)

Operational Off-Road Equipment - Assume 60hp for 5,000lb forklift

Fleet Mix - Based on traffic study for proposed = 56% trucks (MHD&HHD) and 44% LDA/LDT (LDA,LDT2,MDV)

Stationary Sources - Process Boilers - 4.5mbtu boiler 10hrs/week for 8 weeks

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	1.62	0.00
tblEnergyUse	NT24E	7.99	1.53
tblEnergyUse	NT24NG	3.06	0.00
tblEnergyUse	T24E	0.14	0.00
tblEnergyUse	T24NG	0.73	0.00
tblFleetMix	HHD	0.03	0.28
tblFleetMix	LDA	0.59	0.30
tblFleetMix	LDT1	0.04	0.01
tblFleetMix	LDT2	0.17	0.08
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.0700e-003	0.00
tblFleetMix	MCY	4.9970e-003	0.00
tblFleetMix	MDV	0.10	0.05
tblFleetMix	MH	9.6700e-004	0.00
tblFleetMix	MHD	0.03	0.28
tblFleetMix	OBUS	3.1370e-003	0.00
tblFleetMix	SBUS	8.8000e-004	0.00
tblFleetMix	UBUS	1.7060e-003	0.00
tblGrading	AcresOfGrading	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	89.00	60.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	12.00
tblProjectCharacteristics	CO2IntensityFactor	0	98.81
tblStationaryBoilersUse	AnnualHeatInput	0.00	80.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	4.50

tblStationaryBoilersUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblVehicleEF	HHD	0.52	0.02
tblVehicleEF	HHD	0.08	0.04
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tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.09	0.27
tblVehicleEF	LDT1	0.01	7.1834e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.50	1.40
tblVehicleEF	LDT1	4.30	2.68
tblVehicleEF	LDT1	314.23	309.50
tblVehicleEF	LDT1	71.44	66.18
tblVehicleEF	LDT1	0.17	0.13
tblVehicleEF	LDT1	0.24	0.32
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.8260e-003	2.3481e-003
tblVehicleEF	LDT1	3.8030e-003	2.7567e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.6040e-003	2.1631e-003
tblVehicleEF	LDT1	3.4980e-003	2.5349e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.37	0.28
tblVehicleEF	LDT1	0.10	0.10

tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.24	1.06
tblVehicleEF	LDT1	0.29	0.47
tblVehicleEF	LDT1	3.1610e-003	3.0604e-003
tblVehicleEF	LDT1	7.9000e-004	0.00
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.37	0.28
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.24	1.06
tblVehicleEF	LDT1	0.32	0.51
tblVehicleEF	LDT2	6.3340e-003	4.3583e-003
tblVehicleEF	LDT2	9.2280e-003	0.08
tblVehicleEF	LDT2	0.77	0.94
tblVehicleEF	LDT2	1.94	2.99
tblVehicleEF	LDT2	346.44	328.64
tblVehicleEF	LDT2	78.86	70.37
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	0.15	0.32
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8370e-003	1.6165e-003
tblVehicleEF	LDT2	2.4120e-003	1.8791e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6900e-003	1.4885e-003
tblVehicleEF	LDT2	2.2180e-003	1.7278e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.04	0.07

tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.60
tblVehicleEF	LDT2	0.12	0.37
tblVehicleEF	LDT2	3.4710e-003	0.01
tblVehicleEF	LDT2	8.2200e-004	6.8743e-005
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.60
tblVehicleEF	LDT2	0.14	0.41
tblVehicleEF	LHD1	4.8180e-003	4.1312e-003
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.16
tblVehicleEF	LHD1	1.63	1.28
tblVehicleEF	LHD1	2.83	0.97
tblVehicleEF	LHD1	9.51	9.63
tblVehicleEF	LHD1	687.07	767.97
tblVehicleEF	LHD1	26.48	9.45
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	2.56	1.78
tblVehicleEF	LHD1	0.96	0.27
tblVehicleEF	LHD1	1.1650e-003	1.1434e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	1.0190e-003	2.6372e-004
tblVehicleEF	LHD1	1.1150e-003	1.0939e-003
tblVehicleEF	LHD1	0.03	0.03

tblVehicleEF	LHD1	2.5910e-003	2.5575e-003
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	9.3700e-004	2.4248e-004
tblVehicleEF	LHD1	2.7220e-003	2.2437e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3250e-003	1.0851e-003
tblVehicleEF	LHD1	0.19	0.15
tblVehicleEF	LHD1	0.45	0.79
tblVehicleEF	LHD1	0.29	0.08
tblVehicleEF	LHD1	9.4000e-005	9.2838e-005
tblVehicleEF	LHD1	6.7270e-003	7.4590e-003
tblVehicleEF	LHD1	3.1800e-004	9.3471e-005
tblVehicleEF	LHD1	2.7220e-003	2.2437e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.3250e-003	1.0851e-003
tblVehicleEF	LHD1	0.23	0.18
tblVehicleEF	LHD1	0.45	0.79
tblVehicleEF	LHD1	0.31	0.08
tblVehicleEF	LHD2	3.4550e-003	2.9309e-003
tblVehicleEF	LHD2	9.8680e-003	8.2151e-003
tblVehicleEF	LHD2	8.5420e-003	8.4513e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.77	0.80
tblVehicleEF	LHD2	1.20	0.55
tblVehicleEF	LHD2	14.55	14.95
tblVehicleEF	LHD2	720.23	780.00
tblVehicleEF	LHD2	22.80	6.90
tblVehicleEF	LHD2	0.12	0.13



tblVehicleEF	LHD2	1.54	1.50
tblVehicleEF	LHD2	0.53	0.18
tblVehicleEF	LHD2	1.3320e-003	1.5140e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9000e-004	1.1186e-004
tblVehicleEF	LHD2	1.2740e-003	1.4485e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7030e-003	2.7260e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.5800e-004	1.0285e-004
tblVehicleEF	LHD2	8.7700e-004	9.2933e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.8700e-004	4.9390e-004
tblVehicleEF	LHD2	0.13	0.14
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	1.4200e-004	1.4269e-004
tblVehicleEF	LHD2	6.9990e-003	7.5149e-003
tblVehicleEF	LHD2	2.5000e-004	6.8326e-005
tblVehicleEF	LHD2	8.7700e-004	9.2933e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.8700e-004	4.9390e-004
tblVehicleEF	LHD2	0.15	0.16
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.13	0.05
tblVehicleEF	MCY	0.47	0.36

tblVehicleEF	MCY	0.18	0.27
tblVehicleEF	MCY	21.85	21.88
tblVehicleEF	MCY	10.31	9.16
tblVehicleEF	MCY	176.12	217.83
tblVehicleEF	MCY	48.02	63.72
tblVehicleEF	MCY	1.19	1.19
tblVehicleEF	MCY	0.33	0.28
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.2550e-003	2.1248e-003
tblVehicleEF	MCY	4.6950e-003	3.4394e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1160e-003	1.9918e-003
tblVehicleEF	MCY	4.4440e-003	3.2498e-003
tblVehicleEF	MCY	0.94	1.82
tblVehicleEF	MCY	0.97	0.89
tblVehicleEF	MCY	0.50	0.97
tblVehicleEF	MCY	2.51	2.52
tblVehicleEF	MCY	0.96	2.59
tblVehicleEF	MCY	2.40	2.09
tblVehicleEF	MCY	2.1910e-003	2.1556e-003
tblVehicleEF	MCY	7.2000e-004	6.3060e-004
tblVehicleEF	MCY	0.94	1.82
tblVehicleEF	MCY	0.97	0.89
tblVehicleEF	MCY	0.50	0.97
tblVehicleEF	MCY	3.07	3.07
tblVehicleEF	MCY	0.96	2.59
tblVehicleEF	MCY	2.61	2.27
tblVehicleEF	MDV	0.01	5.2751e-003

tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.33	1.05
tblVehicleEF	MDV	4.05	3.58
tblVehicleEF	MDV	479.75	404.42
tblVehicleEF	MDV	107.07	86.09
tblVehicleEF	MDV	0.19	0.11
tblVehicleEF	MDV	0.37	0.40
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.0170e-003	1.7373e-003
tblVehicleEF	MDV	2.6930e-003	2.0728e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.8590e-003	1.6039e-003
tblVehicleEF	MDV	2.4760e-003	1.9063e-003
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.24	0.19
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.15	0.66
tblVehicleEF	MDV	0.31	0.49
tblVehicleEF	MDV	4.8070e-003	3.9971e-003
tblVehicleEF	MDV	1.1430e-003	8.5188e-004
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.24	0.19
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.15	0.66
tblVehicleEF	MDV	0.34	0.53
tblVehicleEF	MH	0.05	0.01

tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	3.31	1.61
tblVehicleEF	MH	7.06	2.19
tblVehicleEF	MH	1,227.75	1,554.49
tblVehicleEF	MH	58.60	18.32
tblVehicleEF	MH	1.85	1.96
tblVehicleEF	MH	1.03	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.2460e-003	2.7082e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2340e-003	3.3115e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.1450e-003	2.4901e-004
tblVehicleEF	MH	1.02	0.78
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.35	0.28
tblVehicleEF	MH	0.15	0.10
tblVehicleEF	MH	0.03	1.77
tblVehicleEF	MH	0.41	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	7.0900e-004	1.8126e-004
tblVehicleEF	MH	1.02	0.78
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.35	0.28
tblVehicleEF	MH	0.20	0.13
tblVehicleEF	MH	0.03	1.77
tblVehicleEF	MH	0.45	0.11
tblVehicleEF	MHD	0.02	2.4462e-003

tblVehicleEF	MHD	4.5390e-003	2.0510e-003
tblVehicleEF	MHD	0.07	7.3580e-003
tblVehicleEF	MHD	0.26	0.33
tblVehicleEF	MHD	0.37	0.28
tblVehicleEF	MHD	5.40	0.95
tblVehicleEF	MHD	186.52	70.65
tblVehicleEF	MHD	1,187.19	1,058.10
tblVehicleEF	MHD	37.21	6.95
tblVehicleEF	MHD	0.55	0.42
tblVehicleEF	MHD	1.23	1.57
tblVehicleEF	MHD	14.78	1.82
tblVehicleEF	MHD	1.9400e-004	3.9854e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	3.5340e-003	7.8818e-003
tblVehicleEF	MHD	6.8000e-004	9.9166e-005
tblVehicleEF	MHD	1.8600e-004	3.8130e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	3.3780e-003	7.5367e-003
tblVehicleEF	MHD	6.2500e-004	9.1180e-005
tblVehicleEF	MHD	8.5900e-004	4.2094e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	4.2400e-004	2.0719e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.7870e-003	6.6955e-004
tblVehicleEF	MHD	0.01	0.01

tblVehicleEF	MHD	4.6700e-004	6.8743e-005
tblVehicleEF	MHD	8.5900e-004	4.2094e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	4.2400e-004	2.0719e-004
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	OBUS	0.01	7.2998e-003
tblVehicleEF	OBUS	7.7330e-003	5.6034e-003
tblVehicleEF	OBUS	0.04	0.02
tblVehicleEF	OBUS	0.24	0.62
tblVehicleEF	OBUS	0.57	0.67
tblVehicleEF	OBUS	6.43	2.29
tblVehicleEF	OBUS	176.23	97.54
tblVehicleEF	OBUS	1,309.54	1,365.34
tblVehicleEF	OBUS	60.95	16.91
tblVehicleEF	OBUS	0.41	0.39
tblVehicleEF	OBUS	1.15	1.48
tblVehicleEF	OBUS	4.83	1.05
tblVehicleEF	OBUS	3.7000e-005	1.2970e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	3.1200e-003	7.4863e-003
tblVehicleEF	OBUS	8.1000e-004	1.7937e-004
tblVehicleEF	OBUS	3.6000e-005	1.2409e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.9740e-003	7.1489e-003
tblVehicleEF	OBUS	7.4500e-004	1.6492e-004

tblVehicleEF	OBUS	1.4310e-003	1.4052e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	6.1500e-004	5.9637e-004
tblVehicleEF	OBUS	0.06	0.03
tblVehicleEF	OBUS	0.03	0.29
tblVehicleEF	OBUS	0.39	0.11
tblVehicleEF	OBUS	1.6920e-003	9.2675e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.2200e-004	1.6735e-004
tblVehicleEF	OBUS	1.4310e-003	1.4052e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	6.1500e-004	5.9637e-004
tblVehicleEF	OBUS	0.07	0.05
tblVehicleEF	OBUS	0.03	0.29
tblVehicleEF	OBUS	0.43	0.12
tblVehicleEF	SBUS	0.90	0.03
tblVehicleEF	SBUS	8.8800e-003	4.3425e-003
tblVehicleEF	SBUS	0.07	2.5140e-003
tblVehicleEF	SBUS	3.79	1.50
tblVehicleEF	SBUS	0.54	0.32
tblVehicleEF	SBUS	3.50	0.37
tblVehicleEF	SBUS	1,361.31	336.72
tblVehicleEF	SBUS	1,190.61	1,081.67
tblVehicleEF	SBUS	21.68	2.17
tblVehicleEF	SBUS	12.74	3.23
tblVehicleEF	SBUS	4.83	4.31
tblVehicleEF	SBUS	17.40	0.99
tblVehicleEF	SBUS	0.01	2.8334e-003

tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.0200e-004	2.6205e-005
tblVehicleEF	SBUS	0.01	2.7108e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.8490e-003	2.8299e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	3.7000e-004	2.4094e-005
tblVehicleEF	SBUS	9.5000e-004	2.0005e-004
tblVehicleEF	SBUS	9.9240e-003	2.0276e-003
tblVehicleEF	SBUS	0.46	0.14
tblVehicleEF	SBUS	4.0400e-004	9.1773e-005
tblVehicleEF	SBUS	0.11	0.07
tblVehicleEF	SBUS	5.1430e-003	0.01
tblVehicleEF	SBUS	0.17	0.01
tblVehicleEF	SBUS	0.01	3.1942e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.7700e-004	2.1427e-005
tblVehicleEF	SBUS	9.5000e-004	2.0005e-004
tblVehicleEF	SBUS	9.9240e-003	2.0276e-003
tblVehicleEF	SBUS	0.65	0.20
tblVehicleEF	SBUS	4.0400e-004	9.1773e-005
tblVehicleEF	SBUS	0.13	0.09
tblVehicleEF	SBUS	5.1430e-003	0.01
tblVehicleEF	SBUS	0.19	0.02
tblVehicleEF	UBUS	0.29	3.17
tblVehicleEF	UBUS	0.07	0.01
tblVehicleEF	UBUS	3.54	24.50
tblVehicleEF	UBUS	9.82	0.84



tblVehicleEF	UBUS	2,000.29	1,777.04
tblVehicleEF	UBUS	139.05	8.70
tblVehicleEF	UBUS	6.12	0.60
tblVehicleEF	UBUS	12.97	0.08
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.2785e-003
tblVehicleEF	UBUS	8.3300e-004	7.1542e-005
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.7722e-003
tblVehicleEF	UBUS	0.10	4.0882e-003
tblVehicleEF	UBUS	7.6600e-004	6.5780e-005
tblVehicleEF	UBUS	3.8960e-003	2.7474e-004
tblVehicleEF	UBUS	0.07	4.1066e-003
tblVehicleEF	UBUS	2.3470e-003	1.6501e-004
tblVehicleEF	UBUS	0.39	0.05
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.88	0.05
tblVehicleEF	UBUS	0.02	7.5775e-003
tblVehicleEF	UBUS	1.5710e-003	8.6104e-005
tblVehicleEF	UBUS	3.8960e-003	2.7474e-004
tblVehicleEF	UBUS	0.07	4.1066e-003
tblVehicleEF	UBUS	2.3470e-003	1.6501e-004
tblVehicleEF	UBUS	0.72	3.24
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.96	0.05
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.47

tblVehicleTrips	SU_TR	1.68	1.47
tblVehicleTrips	WD_TR	1.68	1.47
tblWater	AerobicPercent	87.46	8.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	90.00
tblWater	IndoorWaterUseRate	18,095,312.50	6,343,700.00
tblWater	SepticTankPercent	10.33	2.00

## 2.0 Emissions Summary

### 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3465	1.0000e-005	7.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4000e-003	1.4000e-003	0.0000	0.0000	1.4900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.3659	5.3659	0.0000	0.0000	5.3659
Mobile	0.0338	0.6405	0.3529	3.1700e-003	0.1468	3.7700e-003	0.1505	0.0411	3.6000e-003	0.0447	0.0000	312.6474	312.6474	6.5100e-003	0.0000	312.8100
Offroad	0.0539	0.5046	0.6020	8.0000e-004		0.0312	0.0312		0.0287	0.0287	0.0000	70.6161	70.6161	0.0228	0.0000	71.1871
Stationary	2.2000e-004	4.4000e-004	3.8400e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2692	4.2692	8.0000e-005	0.0000	4.2712
Waste						0.0000	0.0000		0.0000	0.0000	14.9300	0.0000	14.9300	0.8823	0.0000	36.9884
Water						0.0000	0.0000		0.0000	0.0000	2.1995	1.5385	3.7380	2.1112	4.8800e-003	57.9713
<b>Total</b>	<b>0.4344</b>	<b>1.1456</b>	<b>0.9594</b>	<b>3.9900e-003</b>	<b>0.1468</b>	<b>0.0353</b>	<b>0.1820</b>	<b>0.0411</b>	<b>0.0326</b>	<b>0.0737</b>	<b>17.1295</b>	<b>394.4384</b>	<b>411.5679</b>	<b>3.0229</b>	<b>4.8800e-003</b>	<b>488.5953</b>

### Mitigated Operational







### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Refrigerated Warehouse-No Pail	119723	5.3659	0.0000	0.0000	5.3659
<b>Total</b>		<b>5.3659</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.3659</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Refrigerated Warehouse-No Pail	119723	5.3659	0.0000	0.0000	5.3659
<b>Total</b>		<b>5.3659</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.3659</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3465	1.0000e-005	7.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4000e-003	1.4000e-003	0.0000	0.0000	1.4900e-003
Unmitigated	0.3465	1.0000e-005	7.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4000e-003	1.4000e-003	0.0000	0.0000	1.4900e-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	0.0408					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3056					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4000e-003	1.4000e-003	0.0000	0.0000	1.4900e-003
<b>Total</b>	<b>0.3465</b>	<b>1.0000e-005</b>	<b>7.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.4000e-003</b>	<b>1.4000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.4900e-003</b>

### 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
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SubCategory	tons/yr								MT/yr							
	Architectural Coating	0.0408					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3056					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	7.0000e-005	1.0000e-005	7.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.4000e-003	1.4000e-003	0.0000	0.0000	1.4900e-003
<b>Total</b>	<b>0.3465</b>	<b>1.0000e-005</b>	<b>7.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.4000e-003</b>	<b>1.4000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.4900e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.7380	2.1112	4.8800e-003	57.9713
Unmitigated	3.7380	2.1112	4.8800e-003	57.9713

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Refrigerated Warehouse-No	6.3437 / 0	3.7380	2.1112	4.8800e-003	57.9713



Total		3.7380	2.1112	4.8800e-003	57.9713
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**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Refrigerated Warehouse-No	6.3437 / 0	3.7380	2.1112	4.8800e-003	57.9713
<b>Total</b>		<b>3.7380</b>	<b>2.1112</b>	<b>4.8800e-003</b>	<b>57.9713</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.9300	0.8823	0.0000	36.9884
Unmitigated	14.9300	0.8823	0.0000	36.9884

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Refrigerated Warehouse-No	73.55	14.9300	0.8823	0.0000	36.9884
<b>Total</b>		<b>14.9300</b>	<b>0.8823</b>	<b>0.0000</b>	<b>36.9884</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Refrigerated Warehouse-No	73.55	14.9300	0.8823	0.0000	36.9884
<b>Total</b>		<b>14.9300</b>	<b>0.8823</b>	<b>0.0000</b>	<b>36.9884</b>

## 9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	12	4.00	260	60	0.20	Diesel

### UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	0.0539	0.5046	0.6020	8.0000e-004		0.0312	0.0312		0.0287	0.0287	0.0000	70.6161	70.6161	0.0228	0.0000	71.1871
<b>Total</b>	<b>0.0539</b>	<b>0.5046</b>	<b>0.6020</b>	<b>8.0000e-004</b>		<b>0.0312</b>	<b>0.0312</b>		<b>0.0287</b>	<b>0.0287</b>	<b>0.0000</b>	<b>70.6161</b>	<b>70.6161</b>	<b>0.0228</b>	<b>0.0000</b>	<b>71.1871</b>

## 10.0 Stationary Equipment

### Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	1	0	80	4.5	CNG

### User Defined Equipment

Equipment Type	Number
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## 10.1 Stationary Sources

### Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Boiler - CNG (2 - 5 MMBTU)	2.2000e-004	4.4000e-004	3.8400e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2692	4.2692	8.0000e-005	0.0000	4.2712

Total	2.2000e-004	4.4000e-004	3.8400e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2692	4.2692	8.0000e-005	0.0000	4.2712
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## 11.0 Vegetation

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Caneros Vintners Permitted Project Operation - Sonoma-San Francisco County, Annual

**Caneros Vintners Permitted Project Operation  
Sonoma-San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	52.00	1000sqft	1.19	52,000.00	0
Quality Restaurant	4.46	1000sqft	0.10	4,460.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	75
<b>Climate Zone</b>	4	<b>Operational Year</b>		2023	
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MWhr)</b>	98.81	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0

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

Project Characteristics - Sonoma Clean Energy

Land Use - Best fit of permitted uses to CalEEMod uses

Construction Phase - Operational run

Off-road Equipment - operational run

Vehicle Trips - Total = 91 daily with all traffic assigned to tasting (Restaurant) 72/4.46 or 16.15 and trucks assigned to 52ksf building 19/52=0.37/ksf

Energy Use - No natural gas (see boiler) Electricity based on 80,000 kw/yr

Water And Wastewater - Based on water/wastewater provided for domestic (septic) and industrial (lagoon)

Operational Off-Road Equipment - HP for 5,000lb gas

Fleet Mix - Only trucks assigned to this land use

Stationary Sources - Process Boilers - 4.5mbtu Boiler 10hr/week for 8 weeks

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	5.35	0.00
tblEnergyUse	LightingElect	2.14	0.00
tblEnergyUse	NT24E	22.30	0.00
tblEnergyUse	NT24E	1.07	1.54
tblEnergyUse	NT24NG	147.47	0.00
tblEnergyUse	NT24NG	0.07	0.00
tblEnergyUse	T24E	5.07	0.00
tblEnergyUse	T24E	0.32	0.00
tblEnergyUse	T24NG	60.41	0.00
tblEnergyUse	T24NG	3.40	0.00
tblFleetMix	HHD	0.03	0.50
tblFleetMix	LDA	0.59	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.0700e-003	0.00
tblFleetMix	MCY	4.9970e-003	0.00

tblFleetMix	MDV	0.10	0.00
tblFleetMix	MH	9.6700e-004	0.00
tblFleetMix	MHD	0.03	0.50
tblFleetMix	OBUS	3.1370e-003	0.00
tblFleetMix	SBUS	8.8000e-004	0.00
tblFleetMix	UBUS	1.7060e-003	0.00
tblGrading	AcresOfGrading	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	89.00	60.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	0	98.81
tblStationaryBoilersUse	AnnualHeatInput	0.00	80.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	4.50
tblStationaryBoilersUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblVehicleEF	HHD	0.52	0.02
tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	0.10	3.9790e-007
tblVehicleEF	HHD	1.52	5.38
tblVehicleEF	HHD	0.92	0.45
tblVehicleEF	HHD	2.95	0.02
tblVehicleEF	HHD	3,682.43	922.43
tblVehicleEF	HHD	1,622.09	1,472.05
tblVehicleEF	HHD	8.37	0.20
tblVehicleEF	HHD	14.25	4.91
tblVehicleEF	HHD	2.21	2.91
tblVehicleEF	HHD	19.87	2.77
tblVehicleEF	HHD	0.01	3.1987e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	7.0730e-003	0.02
tblVehicleEF	HHD	7.2000e-005	4.4571e-006
tblVehicleEF	HHD	0.01	3.0603e-003
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.3600e-003	8.4966e-003
tblVehicleEF	HHD	6.7660e-003	0.02
tblVehicleEF	HHD	6.7000e-005	4.0981e-006
tblVehicleEF	HHD	8.8000e-005	1.4211e-005
tblVehicleEF	HHD	4.5990e-003	7.5331e-004
tblVehicleEF	HHD	0.38	0.37
tblVehicleEF	HHD	5.1000e-005	7.2957e-006
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	5.1700e-004	4.8790e-003
tblVehicleEF	HHD	0.08	2.0787e-006
tblVehicleEF	HHD	0.03	8.6148e-003
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.3200e-004	1.9300e-006
tblVehicleEF	HHD	8.8000e-005	1.4211e-005

tblVehicleEF	HHD	4.5990e-003	7.5331e-004
tblVehicleEF	HHD	0.45	0.42
tblVehicleEF	HHD	5.1000e-005	7.2957e-006
tblVehicleEF	HHD	0.17	0.07
tblVehicleEF	HHD	5.1700e-004	4.8790e-003
tblVehicleEF	HHD	0.09	2.2759e-006
tblVehicleEF	LDA	4.4080e-003	2.5943e-003
tblVehicleEF	LDA	6.1510e-003	0.05
tblVehicleEF	LDA	0.57	0.65
tblVehicleEF	LDA	1.35	2.31
tblVehicleEF	LDA	250.79	252.70
tblVehicleEF	LDA	55.97	52.68
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.08	0.19
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.9060e-003	1.6299e-003
tblVehicleEF	LDA	2.3200e-003	1.8450e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.7590e-003	1.5044e-003
tblVehicleEF	LDA	2.1330e-003	1.6965e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.08	0.24
tblVehicleEF	LDA	2.5110e-003	1.0745e-004
tblVehicleEF	LDA	5.8300e-004	0.00
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.11	0.11
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tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.09	0.27
tblVehicleEF	LDT1	0.01	7.1834e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.50	1.40
tblVehicleEF	LDT1	4.30	2.68
tblVehicleEF	LDT1	314.23	309.50
tblVehicleEF	LDT1	71.44	66.18
tblVehicleEF	LDT1	0.17	0.13
tblVehicleEF	LDT1	0.24	0.32
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.8260e-003	2.3481e-003
tblVehicleEF	LDT1	3.8030e-003	2.7567e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	2.6040e-003	2.1631e-003

tblVehicleEF	LDT1	3.4980e-003	2.5349e-003
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.37	0.28
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.24	1.06
tblVehicleEF	LDT1	0.29	0.47
tblVehicleEF	LDT1	3.1610e-003	3.0604e-003
tblVehicleEF	LDT1	7.9000e-004	0.00
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	0.37	0.28
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.24	1.06
tblVehicleEF	LDT1	0.32	0.51
tblVehicleEF	LDT2	6.3340e-003	4.3583e-003
tblVehicleEF	LDT2	9.2280e-003	0.08
tblVehicleEF	LDT2	0.77	0.94
tblVehicleEF	LDT2	1.94	2.99
tblVehicleEF	LDT2	346.44	328.64
tblVehicleEF	LDT2	78.86	70.37
tblVehicleEF	LDT2	0.09	0.09
tblVehicleEF	LDT2	0.15	0.32
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8370e-003	1.6165e-003
tblVehicleEF	LDT2	2.4120e-003	1.8791e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.6900e-003	1.4885e-003
tblVehicleEF	LDT2	2.2180e-003	1.7278e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.08	0.60
tblVehicleEF	LDT2	0.12	0.37
tblVehicleEF	LDT2	3.4710e-003	0.01
tblVehicleEF	LDT2	8.2200e-004	6.8743e-005
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tblVehicleEF	LDT2	0.14	0.16
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.60
tblVehicleEF	LDT2	0.14	0.41
tblVehicleEF	LHD1	4.8180e-003	4.1312e-003
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.16
tblVehicleEF	LHD1	1.63	1.28
tblVehicleEF	LHD1	2.83	0.97



tblVehicleEF	LHD1	9.51	9.63
tblVehicleEF	LHD1	687.07	767.97
tblVehicleEF	LHD1	26.48	9.45
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	2.56	1.78
tblVehicleEF	LHD1	0.96	0.27
tblVehicleEF	LHD1	1.1650e-003	1.1434e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	1.0190e-003	2.6372e-004
tblVehicleEF	LHD1	1.1150e-003	1.0939e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5910e-003	2.5575e-003
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	9.3700e-004	2.4248e-004
tblVehicleEF	LHD1	2.7220e-003	2.2437e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3250e-003	1.0851e-003
tblVehicleEF	LHD1	0.19	0.15
tblVehicleEF	LHD1	0.45	0.79
tblVehicleEF	LHD1	0.29	0.08
tblVehicleEF	LHD1	9.4000e-005	9.2838e-005
tblVehicleEF	LHD1	6.7270e-003	7.4590e-003
tblVehicleEF	LHD1	3.1800e-004	9.3471e-005
tblVehicleEF	LHD1	2.7220e-003	2.2437e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.3250e-003	1.0851e-003
tblVehicleEF	LHD1	0.23	0.18
tblVehicleEF	LHD1	0.45	0.79
tblVehicleEF	LHD1	0.31	0.08
tblVehicleEF	LHD2	3.4550e-003	2.9309e-003
tblVehicleEF	LHD2	9.8680e-003	8.2151e-003
tblVehicleEF	LHD2	8.5420e-003	8.4513e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.77	0.80
tblVehicleEF	LHD2	1.20	0.55
tblVehicleEF	LHD2	14.55	14.95
tblVehicleEF	LHD2	720.23	780.00
tblVehicleEF	LHD2	22.80	6.90
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	1.54	1.50
tblVehicleEF	LHD2	0.53	0.18
tblVehicleEF	LHD2	1.3320e-003	1.5140e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.9000e-004	1.1186e-004
tblVehicleEF	LHD2	1.2740e-003	1.4485e-003

tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.7030e-003	2.7260e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	3.5800e-004	1.0285e-004
tblVehicleEF	LHD2	8.7700e-004	9.2933e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.8700e-004	4.9390e-004
tblVehicleEF	LHD2	0.13	0.14
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.12	0.04
tblVehicleEF	LHD2	1.4200e-004	1.4269e-004
tblVehicleEF	LHD2	6.9990e-003	7.5149e-003
tblVehicleEF	LHD2	2.5000e-004	6.8326e-005
tblVehicleEF	LHD2	8.7700e-004	9.2933e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.8700e-004	4.9390e-004
tblVehicleEF	LHD2	0.15	0.16
tblVehicleEF	LHD2	0.09	0.29
tblVehicleEF	LHD2	0.13	0.05
tblVehicleEF	MCY	0.47	0.36
tblVehicleEF	MCY	0.18	0.27
tblVehicleEF	MCY	21.85	21.88
tblVehicleEF	MCY	10.31	9.16
tblVehicleEF	MCY	176.12	217.83
tblVehicleEF	MCY	48.02	63.72
tblVehicleEF	MCY	1.19	1.19
tblVehicleEF	MCY	0.33	0.28
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.2550e-003	2.1248e-003
tblVehicleEF	MCY	4.6950e-003	3.4394e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1160e-003	1.9918e-003
tblVehicleEF	MCY	4.4440e-003	3.2498e-003
tblVehicleEF	MCY	0.94	1.82
tblVehicleEF	MCY	0.97	0.89
tblVehicleEF	MCY	0.50	0.97
tblVehicleEF	MCY	2.51	2.52
tblVehicleEF	MCY	0.96	2.59
tblVehicleEF	MCY	2.40	2.09
tblVehicleEF	MCY	2.1910e-003	2.1556e-003
tblVehicleEF	MCY	7.2000e-004	6.3060e-004
tblVehicleEF	MCY	0.94	1.82
tblVehicleEF	MCY	0.97	0.89
tblVehicleEF	MCY	0.50	0.97
tblVehicleEF	MCY	3.07	3.07
tblVehicleEF	MCY	0.96	2.59
tblVehicleEF	MCY	2.61	2.27

tblVehicleEF	MDV	0.01	5.2751e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.33	1.05
tblVehicleEF	MDV	4.05	3.58
tblVehicleEF	MDV	479.75	404.42
tblVehicleEF	MDV	107.07	86.09
tblVehicleEF	MDV	0.19	0.11
tblVehicleEF	MDV	0.37	0.40
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.0170e-003	1.7373e-003
tblVehicleEF	MDV	2.6930e-003	2.0728e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.8590e-003	1.6039e-003
tblVehicleEF	MDV	2.4760e-003	1.9063e-003
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.24	0.19
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.15	0.66
tblVehicleEF	MDV	0.31	0.49
tblVehicleEF	MDV	4.8070e-003	3.9971e-003
tblVehicleEF	MDV	1.1430e-003	8.5188e-004
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.24	0.19
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.15	0.66
tblVehicleEF	MDV	0.34	0.53
tblVehicleEF	MH	0.05	0.01
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	3.31	1.61
tblVehicleEF	MH	7.06	2.19
tblVehicleEF	MH	1,227.75	1,554.49
tblVehicleEF	MH	58.60	18.32
tblVehicleEF	MH	1.85	1.96
tblVehicleEF	MH	1.03	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.2460e-003	2.7082e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2340e-003	3.3115e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.1450e-003	2.4901e-004
tblVehicleEF	MH	1.02	0.78
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.35	0.28
tblVehicleEF	MH	0.15	0.10
tblVehicleEF	MH	0.03	1.77

tblVehicleEF	MH	0.41	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	7.0900e-004	1.8126e-004
tblVehicleEF	MH	1.02	0.78
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.35	0.28
tblVehicleEF	MH	0.20	0.13
tblVehicleEF	MH	0.03	1.77
tblVehicleEF	MH	0.45	0.11
tblVehicleEF	MHD	0.02	2.4462e-003
tblVehicleEF	MHD	4.5390e-003	2.0510e-003
tblVehicleEF	MHD	0.07	7.3580e-003
tblVehicleEF	MHD	0.26	0.33
tblVehicleEF	MHD	0.37	0.28
tblVehicleEF	MHD	5.40	0.95
tblVehicleEF	MHD	186.52	70.65
tblVehicleEF	MHD	1,187.19	1,058.10
tblVehicleEF	MHD	37.21	6.95
tblVehicleEF	MHD	0.55	0.42
tblVehicleEF	MHD	1.23	1.57
tblVehicleEF	MHD	14.78	1.82
tblVehicleEF	MHD	1.9400e-004	3.9854e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	3.5340e-003	7.8818e-003
tblVehicleEF	MHD	6.8000e-004	9.9166e-005
tblVehicleEF	MHD	1.8600e-004	3.8130e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	3.3780e-003	7.5367e-003
tblVehicleEF	MHD	6.2500e-004	9.1180e-005
tblVehicleEF	MHD	8.5900e-004	4.2094e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.01
tblVehicleEF	MHD	4.2400e-004	2.0719e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.7870e-003	6.6955e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	4.6700e-004	6.8743e-005
tblVehicleEF	MHD	8.5900e-004	4.2094e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	4.2400e-004	2.0719e-004
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.02	0.14
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	OBUS	0.01	7.2998e-003
tblVehicleEF	OBUS	7.7330e-003	5.6034e-003
tblVehicleEF	OBUS	0.04	0.02

tblVehicleEF	OBUS	0.24	0.62
tblVehicleEF	OBUS	0.57	0.67
tblVehicleEF	OBUS	6.43	2.29
tblVehicleEF	OBUS	176.23	97.54
tblVehicleEF	OBUS	1,309.54	1,365.34
tblVehicleEF	OBUS	60.95	16.91
tblVehicleEF	OBUS	0.41	0.39
tblVehicleEF	OBUS	1.15	1.48
tblVehicleEF	OBUS	4.83	1.05
tblVehicleEF	OBUS	3.7000e-005	1.2970e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	3.1200e-003	7.4863e-003
tblVehicleEF	OBUS	8.1000e-004	1.7937e-004
tblVehicleEF	OBUS	3.6000e-005	1.2409e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.9740e-003	7.1489e-003
tblVehicleEF	OBUS	7.4500e-004	1.6492e-004
tblVehicleEF	OBUS	1.4310e-003	1.4052e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	6.1500e-004	5.9637e-004
tblVehicleEF	OBUS	0.06	0.03
tblVehicleEF	OBUS	0.03	0.29
tblVehicleEF	OBUS	0.39	0.11
tblVehicleEF	OBUS	1.6920e-003	9.2675e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.2200e-004	1.6735e-004
tblVehicleEF	OBUS	1.4310e-003	1.4052e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	6.1500e-004	5.9637e-004
tblVehicleEF	OBUS	0.07	0.05
tblVehicleEF	OBUS	0.03	0.29
tblVehicleEF	OBUS	0.43	0.12
tblVehicleEF	SBUS	0.90	0.03
tblVehicleEF	SBUS	8.8800e-003	4.3425e-003
tblVehicleEF	SBUS	0.07	2.5140e-003
tblVehicleEF	SBUS	3.79	1.50
tblVehicleEF	SBUS	0.54	0.32
tblVehicleEF	SBUS	3.50	0.37
tblVehicleEF	SBUS	1,361.31	336.72
tblVehicleEF	SBUS	1,190.61	1,081.67
tblVehicleEF	SBUS	21.68	2.17
tblVehicleEF	SBUS	12.74	3.23
tblVehicleEF	SBUS	4.83	4.31
tblVehicleEF	SBUS	17.40	0.99
tblVehicleEF	SBUS	0.01	2.8334e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.0200e-004	2.6205e-005
tblVehicleEF	SBUS	0.01	2.7108e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.8490e-003	2.8299e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	3.7000e-004	2.4094e-005
tblVehicleEF	SBUS	9.5000e-004	2.0005e-004
tblVehicleEF	SBUS	9.9240e-003	2.0276e-003
tblVehicleEF	SBUS	0.46	0.14
tblVehicleEF	SBUS	4.0400e-004	9.1773e-005
tblVehicleEF	SBUS	0.11	0.07
tblVehicleEF	SBUS	5.1430e-003	0.01
tblVehicleEF	SBUS	0.17	0.01
tblVehicleEF	SBUS	0.01	3.1942e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.7700e-004	2.1427e-005
tblVehicleEF	SBUS	9.5000e-004	2.0005e-004
tblVehicleEF	SBUS	9.9240e-003	2.0276e-003
tblVehicleEF	SBUS	0.65	0.20
tblVehicleEF	SBUS	4.0400e-004	9.1773e-005
tblVehicleEF	SBUS	0.13	0.09
tblVehicleEF	SBUS	5.1430e-003	0.01
tblVehicleEF	SBUS	0.19	0.02
tblVehicleEF	UBUS	0.29	3.17
tblVehicleEF	UBUS	0.07	0.01
tblVehicleEF	UBUS	3.54	24.50
tblVehicleEF	UBUS	9.82	0.84
tblVehicleEF	UBUS	2,000.29	1,777.04
tblVehicleEF	UBUS	139.05	8.70
tblVehicleEF	UBUS	6.12	0.60
tblVehicleEF	UBUS	12.97	0.08
tblVehicleEF	UBUS	0.52	0.08
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.11	4.2785e-003
tblVehicleEF	UBUS	8.3300e-004	7.1542e-005
tblVehicleEF	UBUS	0.22	0.03
tblVehicleEF	UBUS	3.0000e-003	7.7722e-003
tblVehicleEF	UBUS	0.10	4.0882e-003
tblVehicleEF	UBUS	7.6600e-004	6.5780e-005
tblVehicleEF	UBUS	3.8960e-003	2.7474e-004
tblVehicleEF	UBUS	0.07	4.1066e-003
tblVehicleEF	UBUS	2.3470e-003	1.6501e-004
tblVehicleEF	UBUS	0.39	0.05
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.88	0.05
tblVehicleEF	UBUS	0.02	7.5775e-003
tblVehicleEF	UBUS	1.5710e-003	8.6104e-005
tblVehicleEF	UBUS	3.8960e-003	2.7474e-004
tblVehicleEF	UBUS	0.07	4.1066e-003
tblVehicleEF	UBUS	2.3470e-003	1.6501e-004

tblVehicleEF	UBUS	0.72	3.24
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.96	0.05
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	94.36	16.15
tblVehicleTrips	ST_TR	1.68	0.37
tblVehicleTrips	SU_TR	72.16	16.15
tblVehicleTrips	SU_TR	1.68	0.37
tblVehicleTrips	WD_TR	89.95	16.15
tblVehicleTrips	WD_TR	1.68	0.37
tblWater	AerobicPercent	87.46	10.00
tblWater	AerobicPercent	87.46	10.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	90.00
tblWater	IndoorWaterUseRate	1,353,760.36	197,100.00
tblWater	IndoorWaterUseRate	12,025,000.00	1,200,000.00
tblWater	OutdoorWaterUseRate	86,410.24	0.00
tblWater	SepticTankPercent	10.33	90.00
tblWater	SepticTankPercent	10.33	0.00

## 2.0 Emissions Summary

### 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										M/yr					
Area	0.2500	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.5891	3.5891	0.0000	0.0000	3.5891
Mobile	0.0337	0.2258	0.2113	1.1400e-003	0.0583	1.3800e-003	0.0597	0.0162	1.3100e-003	0.0175	0.0000	112.9517	112.9517	4.0400e-003	0.0000	113.0526
Offroad	0.0360	0.3364	0.4013	5.4000e-004		0.0208	0.0208		0.0191	0.0191	0.0000	47.0774	47.0774	0.0152	0.0000	47.4581
Stationary	2.2000e-004	4.4000e-004	3.8400e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2692	4.2692	8.0000e-005	0.0000	4.2712
Waste						0.0000	0.0000		0.0000	0.0000	10.7484	0.0000	10.7484	0.6352	0.0000	26.6286
Water						0.0000	0.0000		0.0000	0.0000	0.4315	0.3388	0.7704	0.4343	1.0700e-003	11.9468
<b>Total</b>	<b>0.3198</b>	<b>0.5627</b>	<b>0.6169</b>	<b>1.7000e-003</b>	<b>0.0583</b>	<b>0.0225</b>	<b>0.0808</b>	<b>0.0162</b>	<b>0.0207</b>	<b>0.0369</b>	<b>11.1799</b>	<b>168.2272</b>	<b>179.4071</b>	<b>1.0888</b>	<b>1.0700e-003</b>	<b>206.9476</b>

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										M/yr					
Area	0.2500	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-003

Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.5891	3.5891	0.0000	0.0000	3.5891
Mobile	0.0337	0.2258	0.2113	1.1400e-003	0.0583	1.3800e-003	0.0597	0.0162	1.3100e-003	0.0175	0.0000	112.9517	112.9517	4.0400e-003	0.0000	113.0526
Offroad	0.0360	0.3364	0.4013	5.4000e-004		0.0208	0.0208		0.0191	0.0191	0.0000	47.0774	47.0774	0.0152	0.0000	47.4581
Stationary	2.2000e-004	4.4000e-004	3.8400e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2692	4.2692	8.0000e-005	0.0000	4.2712
Waste						0.0000	0.0000		0.0000	0.0000	10.7484	0.0000	10.7484	0.6352	0.0000	26.6286
Water						0.0000	0.0000		0.0000	0.0000	0.4315	0.3388	0.7704	0.4343	1.0700e-003	11.9468
<b>Total</b>	<b>0.3198</b>	<b>0.5627</b>	<b>0.6169</b>	<b>1.7000e-003</b>	<b>0.0583</b>	<b>0.0225</b>	<b>0.0808</b>	<b>0.0162</b>	<b>0.0207</b>	<b>0.0369</b>	<b>11.1799</b>	<b>168.2272</b>	<b>179.4071</b>	<b>1.0888</b>	<b>1.0700e-003</b>	<b>206.9476</b>

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

#### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0337	0.2258	0.2113	1.1400e-003	0.0583	1.3800e-003	0.0597	0.0162	1.3100e-003	0.0175	0.0000	112.9517	112.9517	4.0400e-003	0.0000	113.0526
Unmitigated	0.0337	0.2258	0.2113	1.1400e-003	0.0583	1.3800e-003	0.0597	0.0162	1.3100e-003	0.0175	0.0000	112.9517	112.9517	4.0400e-003	0.0000	113.0526

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Quality Restaurant	72.03	72.03	72.03	85,438	85,438
Unrefrigerated Warehouse-No Rail	19.24	19.24	19.24	60,215	60,215
<b>Total</b>	<b>91.27</b>	<b>91.27</b>	<b>91.27</b>	<b>145,653</b>	<b>145,653</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	100	0	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Quality Restaurant	0.594113	0.036394	0.166849	0.102253	0.024126	0.006070	0.030484	0.028024	0.003137	0.001706	0.004997	0.000880	0.000967
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.500000	0.500000	0.000000	0.000000	0.000000	0.000000	0.000000

#### 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	3.5891	3.5891	0.0000	0.0000	3.5891
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3.5891	3.5891	0.0000	0.0000	3.5891
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

### 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					
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

#### 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					
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	80080	3.5891	0.0000	0.0000	3.5891
<b>Total</b>		<b>3.5891</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.5891</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Fuel	80080	3.5891	0.0000	0.0000	3.5891
<b>Total</b>		<b>3.5891</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.5891</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2500	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-003
Unmitigated	0.2500	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-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	0.0294					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2205					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-003
<b>Total</b>	<b>0.2500</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0800e-003</b>

#### 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	0.0294					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2205					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-003
<b>Total</b>	<b>0.2500</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0800e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.7704	0.4343	1.0700e-003	11.9468
Unmitigated	0.7704	0.4343	1.0700e-003	11.9468

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Quality Restaurant	0.1971 / 0	0.0548	0.0403	1.5000e-004	1.1078
Unrefrigerated Warehouse-No	1.2 / 0	0.7156	0.3939	9.2000e-004	10.8390
<b>Total</b>		<b>0.7704</b>	<b>0.4342</b>	<b>1.0700e-003</b>	<b>11.9468</b>

#### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Quality Restaurant	0.1971 / 0	0.0548	0.0403	1.5000e-004	1.1078
Unrefrigerated Warehouse-No	1.2 / 0	0.7156	0.3939	9.2000e-004	10.8390
<b>Total</b>		<b>0.7704</b>	<b>0.4342</b>	<b>1.0700e-003</b>	<b>11.9468</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.7484	0.6352	0.0000	26.6286

Unmitigated	10.7484	0.6352	0.0000	26.6286
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## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Quality Restaurant	4.07	0.8262	0.0488	0.0000	2.0468
Unrefrigerated Warehouse-No	48.88	9.9222	0.5864	0.0000	24.5818
<b>Total</b>		<b>10.7484</b>	<b>0.6352</b>	<b>0.0000</b>	<b>26.6286</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Quality Restaurant	4.07	0.8262	0.0488	0.0000	2.0468
Unrefrigerated Warehouse-No	48.88	9.9222	0.5864	0.0000	24.5818
<b>Total</b>		<b>10.7484</b>	<b>0.6352</b>	<b>0.0000</b>	<b>26.6286</b>

## 9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	8	4.00	260	60	0.20	Diesel

### UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	0.0360	0.3364	0.4013	5.4000e-004		0.0208	0.0208		0.0191	0.0191	0.0000	47.0774	47.0774	0.0152	0.0000	47.4581
<b>Total</b>	<b>0.0360</b>	<b>0.3364</b>	<b>0.4013</b>	<b>5.4000e-004</b>		<b>0.0208</b>	<b>0.0208</b>		<b>0.0191</b>	<b>0.0191</b>	<b>0.0000</b>	<b>47.0774</b>	<b>47.0774</b>	<b>0.0152</b>	<b>0.0000</b>	<b>47.4581</b>

## 10.0 Stationary Equipment

### Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	1	0	80	4.5	CNG

**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Boiler - CNG (2 - 5 MMBTU)	2.2000e-004	4.4000e-004	3.8400e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2692	4.2692	8.0000e-005	0.0000	4.2712
<b>Total</b>	<b>2.2000e-004</b>	<b>4.4000e-004</b>	<b>3.8400e-003</b>	<b>2.0000e-005</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>4.2692</b>	<b>4.2692</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>4.2712</b>

**11.0 Vegetation**

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Caneros Vintners Existing Operation - Sonoma-San Francisco County, Annual

**Caneros Vintners Existing Operation  
Sonoma-San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	52.00	1000sqft	1.19	52,000.00	0
Quality Restaurant	4.46	1000sqft	0.10	4,460.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	75
<b>Climate Zone</b>	4			<b>Operational Year</b>	2020
<b>Utility Company</b>	User Defined				
<b>CO2 Intensity (lb/MW hr)</b>	98.81	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - Sonoma Clean Energy

Land Use - Best fit of permitted uses to CalEEMod uses

Construction Phase - Operational run

Off-road Equipment - operational run

Vehicle Trips - Total = 48 daily with all traffic assigned to tasting (Restaurant) 45/4.46 or 10.09 and trucks assigned to 52ksf building 3/52=0.06/ksf

Energy Use - No natural gas (see boiler). Electricity usage = 80,000kw/year

Water And Wastewater - Water and Wastewater

Operational Off-Road Equipment - Reported 8 forklifts = 60hp for 5000lb gas

Fleet Mix - Only trucks assigned to this land use

Stationary Sources - Process Boilers - 4.5mbtu boiler 10hr/week for 8 weeks

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	5.35	0.00
tblEnergyUse	LightingElect	2.14	0.00
tblEnergyUse	NT24E	22.30	0.00
tblEnergyUse	NT24E	1.07	1.54
tblEnergyUse	NT24NG	147.47	0.00
tblEnergyUse	NT24NG	0.07	0.00
tblEnergyUse	T24E	5.07	0.00
tblEnergyUse	T24E	0.32	0.00
tblEnergyUse	T24NG	60.41	0.00
tblEnergyUse	T24NG	3.40	0.00
tblGrading	AcresOfGrading	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	89.00	60.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	0	98.81
tblStationaryBoilersUse	AnnualHeatInput	0.00	80.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	4.50
tblStationaryBoilersUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	0.00	8.00
tblVehicleEF	HHD	0.66	0.02
tblVehicleEF	HHD	0.08	0.04
tblVehicleEF	HHD	0.15	4.1079e-007
tblVehicleEF	HHD	2.41	4.67

tblVehicleEF	HHD	1.04	0.86
tblVehicleEF	HHD	3.89	0.03
tblVehicleEF	HHD	3,790.78	941.26
tblVehicleEF	HHD	1,727.21	1,619.79
tblVehicleEF	HHD	9.56	0.26
tblVehicleEF	HHD	21.24	5.58
tblVehicleEF	HHD	4.62	5.10
tblVehicleEF	HHD	19.82	2.06
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.02	0.08
tblVehicleEF	HHD	1.3000e-004	7.8489e-006
tblVehicleEF	HHD	0.03	0.01
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	8.3800e-003	8.5139e-003
tblVehicleEF	HHD	0.02	0.08
tblVehicleEF	HHD	1.2100e-004	7.2168e-006
tblVehicleEF	HHD	1.3900e-004	2.6437e-005
tblVehicleEF	HHD	7.5560e-003	1.3721e-003
tblVehicleEF	HHD	0.62	0.39
tblVehicleEF	HHD	7.4000e-005	1.3098e-005
tblVehicleEF	HHD	0.14	0.19
tblVehicleEF	HHD	1.0060e-003	9.1314e-003
tblVehicleEF	HHD	0.13	2.1503e-006
tblVehicleEF	HHD	0.04	8.8082e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.6100e-004	2.5485e-006
tblVehicleEF	HHD	1.3900e-004	2.6437e-005
tblVehicleEF	HHD	7.5560e-003	1.3721e-003



tblVehicleEF	HHD	0.72	0.44
tblVehicleEF	HHD	7.4000e-005	1.3098e-005
tblVehicleEF	HHD	0.23	0.25
tblVehicleEF	HHD	1.0060e-003	9.1314e-003
tblVehicleEF	HHD	0.15	2.3543e-006
tblVehicleEF	LDA	6.1410e-003	4.1754e-003
tblVehicleEF	LDA	9.5540e-003	0.07
tblVehicleEF	LDA	0.72	0.89
tblVehicleEF	LDA	1.90	2.56
tblVehicleEF	LDA	282.21	276.78
tblVehicleEF	LDA	62.03	57.71
tblVehicleEF	LDA	0.07	0.07
tblVehicleEF	LDA	0.12	0.24
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.0920e-003	1.9506e-003
tblVehicleEF	LDA	2.4410e-003	2.1416e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.9340e-003	1.8024e-003
tblVehicleEF	LDA	2.2450e-003	1.9694e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.14	0.14
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.28
tblVehicleEF	LDA	0.13	0.34
tblVehicleEF	LDA	2.8270e-003	1.0223e-004
tblVehicleEF	LDA	6.5300e-004	0.00
tblVehicleEF	LDA	0.04	0.06

tblVehicleEF	LDA	0.14	0.14
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.04	0.28
tblVehicleEF	LDA	0.14	0.37
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.03	0.12
tblVehicleEF	LDT1	2.22	2.04
tblVehicleEF	LDT1	5.98	3.08
tblVehicleEF	LDT1	348.12	335.82
tblVehicleEF	LDT1	76.74	71.85
tblVehicleEF	LDT1	0.24	0.20
tblVehicleEF	LDT1	0.32	0.40
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.4770e-003	3.0580e-003
tblVehicleEF	LDT1	4.6320e-003	3.4712e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.2060e-003	2.8184e-003
tblVehicleEF	LDT1	4.2620e-003	3.1924e-003
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.44	0.35
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.06	0.05
tblVehicleEF	LDT1	0.29	1.30
tblVehicleEF	LDT1	0.41	0.64
tblVehicleEF	LDT1	3.5120e-003	2.9692e-003
tblVehicleEF	LDT1	8.7400e-004	0.00
tblVehicleEF	LDT1	0.16	0.17

tblVehicleEF	LDT1	0.44	0.35
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.29	1.30
tblVehicleEF	LDT1	0.45	0.70
tblVehicleEF	LDT2	8.7300e-003	6.1166e-003
tblVehicleEF	LDT2	0.01	0.09
tblVehicleEF	LDT2	0.99	1.24
tblVehicleEF	LDT2	2.72	3.34
tblVehicleEF	LDT2	387.62	363.53
tblVehicleEF	LDT2	86.75	77.66
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.23	0.41
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8800e-003	1.8418e-003
tblVehicleEF	LDT2	2.4720e-003	2.1320e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.7290e-003	1.6960e-003
tblVehicleEF	LDT2	2.2730e-003	1.9606e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.18	0.18
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.09	0.65
tblVehicleEF	LDT2	0.18	0.47
tblVehicleEF	LDT2	3.8850e-003	0.01
tblVehicleEF	LDT2	9.1500e-004	7.5615e-005
tblVehicleEF	LDT2	0.06	0.08

tblVehicleEF	LDT2	0.18	0.18
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.09	0.65
tblVehicleEF	LDT2	0.20	0.52
tblVehicleEF	LHD1	5.2520e-003	4.3071e-003
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.16
tblVehicleEF	LHD1	1.88	1.51
tblVehicleEF	LHD1	3.21	1.05
tblVehicleEF	LHD1	9.51	9.75
tblVehicleEF	LHD1	698.52	786.20
tblVehicleEF	LHD1	27.40	9.82
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	2.87	2.13
tblVehicleEF	LHD1	1.02	0.29
tblVehicleEF	LHD1	1.1740e-003	1.1473e-003
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	1.1500e-003	3.0561e-004
tblVehicleEF	LHD1	1.1230e-003	1.0977e-003
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5750e-003	2.5567e-003
tblVehicleEF	LHD1	0.03	0.02
tblVehicleEF	LHD1	1.0580e-003	2.8144e-004
tblVehicleEF	LHD1	2.7490e-003	2.4113e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	1.2880e-003	1.1262e-003
tblVehicleEF	LHD1	0.20	0.17
tblVehicleEF	LHD1	0.41	0.81
tblVehicleEF	LHD1	0.33	0.09
tblVehicleEF	LHD1	9.5000e-005	9.3986e-005
tblVehicleEF	LHD1	6.8480e-003	7.6363e-003
tblVehicleEF	LHD1	3.3500e-004	9.7146e-005
tblVehicleEF	LHD1	2.7490e-003	2.4113e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.2880e-003	1.1262e-003
tblVehicleEF	LHD1	0.25	0.21
tblVehicleEF	LHD1	0.41	0.81
tblVehicleEF	LHD1	0.36	0.10
tblVehicleEF	LHD2	3.9010e-003	3.1102e-003
tblVehicleEF	LHD2	0.01	9.3955e-003
tblVehicleEF	LHD2	0.01	9.8664e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.92	0.90
tblVehicleEF	LHD2	1.45	0.62
tblVehicleEF	LHD2	14.66	15.11
tblVehicleEF	LHD2	738.26	801.72
tblVehicleEF	LHD2	23.61	7.28
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	2.08	1.81
tblVehicleEF	LHD2	0.61	0.19
tblVehicleEF	LHD2	1.3840e-003	1.4914e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	4.7000e-004	1.3202e-004
tblVehicleEF	LHD2	1.3240e-003	1.4269e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6940e-003	2.7207e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.3200e-004	1.2147e-004
tblVehicleEF	LHD2	1.0090e-003	1.0173e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	5.2600e-004	5.0613e-004
tblVehicleEF	LHD2	0.15	0.14
tblVehicleEF	LHD2	0.11	0.33
tblVehicleEF	LHD2	0.15	0.05
tblVehicleEF	LHD2	1.4300e-004	1.4423e-004
tblVehicleEF	LHD2	7.1790e-003	7.7261e-003
tblVehicleEF	LHD2	2.6300e-004	7.2025e-005
tblVehicleEF	LHD2	1.0090e-003	1.0173e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	5.2600e-004	5.0613e-004
tblVehicleEF	LHD2	0.17	0.17
tblVehicleEF	LHD2	0.11	0.33
tblVehicleEF	LHD2	0.17	0.06
tblVehicleEF	MCY	0.45	0.37
tblVehicleEF	MCY	0.18	0.27
tblVehicleEF	MCY	23.52	23.39
tblVehicleEF	MCY	10.26	9.09
tblVehicleEF	MCY	173.91	218.40
tblVehicleEF	MCY	49.09	64.65
tblVehicleEF	MCY	1.20	1.20

tblVehicleEF	MCY	0.33	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.2400e-003	2.0722e-003
tblVehicleEF	MCY	5.5390e-003	3.9791e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1090e-003	1.9486e-003
tblVehicleEF	MCY	5.2570e-003	3.7709e-003
tblVehicleEF	MCY	0.94	1.80
tblVehicleEF	MCY	1.01	0.92
tblVehicleEF	MCY	0.51	0.97
tblVehicleEF	MCY	2.62	2.61
tblVehicleEF	MCY	1.02	2.88
tblVehicleEF	MCY	2.45	2.13
tblVehicleEF	MCY	2.1980e-003	2.1612e-003
tblVehicleEF	MCY	7.3100e-004	6.3981e-004
tblVehicleEF	MCY	0.94	1.80
tblVehicleEF	MCY	1.01	0.92
tblVehicleEF	MCY	0.51	0.97
tblVehicleEF	MCY	3.16	3.16
tblVehicleEF	MCY	1.02	2.88
tblVehicleEF	MCY	2.67	2.32
tblVehicleEF	MDV	0.02	8.3702e-003
tblVehicleEF	MDV	0.03	0.12
tblVehicleEF	MDV	1.89	1.58
tblVehicleEF	MDV	5.26	4.26
tblVehicleEF	MDV	525.68	443.92
tblVehicleEF	MDV	114.87	94.65
tblVehicleEF	MDV	0.26	0.18

tblVehicleEF	MDV	0.49	0.52
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.1740e-003	2.0341e-003
tblVehicleEF	MDV	3.0160e-003	2.4984e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.0070e-003	1.8796e-003
tblVehicleEF	MDV	2.7790e-003	2.3018e-003
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.25	0.21
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.16	0.71
tblVehicleEF	MDV	0.42	0.64
tblVehicleEF	MDV	5.2750e-003	4.3882e-003
tblVehicleEF	MDV	1.2430e-003	9.3660e-004
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.25	0.21
tblVehicleEF	MDV	0.07	0.08
tblVehicleEF	MDV	0.08	0.06
tblVehicleEF	MDV	0.16	0.71
tblVehicleEF	MDV	0.46	0.70
tblVehicleEF	MH	0.07	0.02
tblVehicleEF	MH	0.04	0.03
tblVehicleEF	MH	5.47	2.60
tblVehicleEF	MH	9.04	2.53
tblVehicleEF	MH	1,240.96	1,612.05
tblVehicleEF	MH	62.20	19.93
tblVehicleEF	MH	2.16	2.14



tblVehicleEF	MH	1.17	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.04	0.05
tblVehicleEF	MH	1.8100e-003	3.4852e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2260e-003	3.2961e-003
tblVehicleEF	MH	0.04	0.04
tblVehicleEF	MH	1.6760e-003	3.2120e-004
tblVehicleEF	MH	1.22	0.96
tblVehicleEF	MH	0.11	0.09
tblVehicleEF	MH	0.41	0.32
tblVehicleEF	MH	0.22	0.13
tblVehicleEF	MH	0.03	2.12
tblVehicleEF	MH	0.55	0.12
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	7.8100e-004	1.9722e-004
tblVehicleEF	MH	1.22	0.96
tblVehicleEF	MH	0.11	0.09
tblVehicleEF	MH	0.41	0.32
tblVehicleEF	MH	0.31	0.18
tblVehicleEF	MH	0.03	2.12
tblVehicleEF	MH	0.60	0.13
tblVehicleEF	MHD	0.02	2.6183e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.09	8.3025e-003
tblVehicleEF	MHD	0.41	0.33
tblVehicleEF	MHD	0.70	0.92
tblVehicleEF	MHD	7.84	1.15
tblVehicleEF	MHD	186.88	74.90

tblVehicleEF	MHD	1,207.53	1,146.61
tblVehicleEF	MHD	41.62	7.64
tblVehicleEF	MHD	1.26	0.70
tblVehicleEF	MHD	2.43	3.39
tblVehicleEF	MHD	14.35	1.14
tblVehicleEF	MHD	5.5470e-003	2.6511e-003
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.05	0.09
tblVehicleEF	MHD	9.6200e-004	1.3214e-004
tblVehicleEF	MHD	5.3070e-003	2.5364e-003
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	0.05	0.08
tblVehicleEF	MHD	8.8500e-004	1.2150e-004
tblVehicleEF	MHD	1.3030e-003	6.1946e-004
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.0800e-004	2.8802e-004
tblVehicleEF	MHD	0.14	0.22
tblVehicleEF	MHD	0.03	0.18
tblVehicleEF	MHD	0.46	0.05
tblVehicleEF	MHD	1.7920e-003	7.0978e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	5.5400e-004	7.5615e-005
tblVehicleEF	MHD	1.3030e-003	6.1946e-004
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	6.0800e-004	2.8802e-004
tblVehicleEF	MHD	0.16	0.26

tblVehicleEF	MHD	0.03	0.18
tblVehicleEF	MHD	0.51	0.05
tblVehicleEF	OBUS	0.01	8.1179e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.04	0.02
tblVehicleEF	OBUS	0.31	0.60
tblVehicleEF	OBUS	0.89	1.32
tblVehicleEF	OBUS	7.91	2.49
tblVehicleEF	OBUS	181.61	102.03
tblVehicleEF	OBUS	1,341.81	1,447.78
tblVehicleEF	OBUS	62.52	17.89
tblVehicleEF	OBUS	1.17	0.74
tblVehicleEF	OBUS	2.93	2.68
tblVehicleEF	OBUS	4.84	0.80
tblVehicleEF	OBUS	5.5000e-004	3.4193e-003
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.01	0.06
tblVehicleEF	OBUS	8.3400e-004	1.9354e-004
tblVehicleEF	OBUS	5.2600e-004	3.2714e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	0.01	0.05
tblVehicleEF	OBUS	7.6700e-004	1.7795e-004
tblVehicleEF	OBUS	1.6330e-003	1.4883e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	6.7000e-004	6.0547e-004
tblVehicleEF	OBUS	0.11	0.18
tblVehicleEF	OBUS	0.04	0.28

tblVehicleEF	OBUS	0.49	0.12
tblVehicleEF	OBUS	1.7440e-003	9.6945e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6400e-004	1.7706e-004
tblVehicleEF	OBUS	1.6330e-003	1.4883e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.08
tblVehicleEF	OBUS	6.7000e-004	6.0547e-004
tblVehicleEF	OBUS	0.13	0.22
tblVehicleEF	OBUS	0.04	0.28
tblVehicleEF	OBUS	0.53	0.13
tblVehicleEF	SBUS	0.95	0.03
tblVehicleEF	SBUS	0.01	4.4885e-003
tblVehicleEF	SBUS	0.08	2.2595e-003
tblVehicleEF	SBUS	3.44	1.37
tblVehicleEF	SBUS	0.61	0.33
tblVehicleEF	SBUS	3.43	0.35
tblVehicleEF	SBUS	1,403.01	338.33
tblVehicleEF	SBUS	1,216.29	1,102.46
tblVehicleEF	SBUS	18.13	1.97
tblVehicleEF	SBUS	15.41	3.38
tblVehicleEF	SBUS	6.16	4.61
tblVehicleEF	SBUS	18.04	0.91
tblVehicleEF	SBUS	0.02	3.2857e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	3.4100e-004	2.2269e-005
tblVehicleEF	SBUS	0.02	3.1436e-003
tblVehicleEF	SBUS	0.32	0.32

tblVehicleEF	SBUS	2.8740e-003	2.8457e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	3.1400e-004	2.0476e-005
tblVehicleEF	SBUS	9.2800e-004	1.2935e-004
tblVehicleEF	SBUS	9.9720e-003	1.2640e-003
tblVehicleEF	SBUS	0.42	0.13
tblVehicleEF	SBUS	3.5600e-004	5.5679e-005
tblVehicleEF	SBUS	0.13	0.08
tblVehicleEF	SBUS	5.9340e-003	8.9114e-003
tblVehicleEF	SBUS	0.17	0.01
tblVehicleEF	SBUS	0.01	3.2082e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.4000e-004	1.9491e-005
tblVehicleEF	SBUS	9.2800e-004	1.2935e-004
tblVehicleEF	SBUS	9.9720e-003	1.2640e-003
tblVehicleEF	SBUS	0.59	0.18
tblVehicleEF	SBUS	3.5600e-004	5.5679e-005
tblVehicleEF	SBUS	0.15	0.09
tblVehicleEF	SBUS	5.9340e-003	8.9114e-003
tblVehicleEF	SBUS	0.18	0.01
tblVehicleEF	UBUS	0.32	3.67
tblVehicleEF	UBUS	0.06	0.01
tblVehicleEF	UBUS	4.09	23.61
tblVehicleEF	UBUS	10.00	0.84
tblVehicleEF	UBUS	2,046.70	1,805.71
tblVehicleEF	UBUS	133.97	9.31
tblVehicleEF	UBUS	7.82	1.36
tblVehicleEF	UBUS	13.39	0.09
tblVehicleEF	UBUS	0.53	0.08
tblVehicleEF	UBUS	0.01	0.03

tblVehicleEF	UBUS	0.14	4.7703e-003
tblVehicleEF	UBUS	6.5300e-004	3.9762e-005
tblVehicleEF	UBUS	0.23	0.03
tblVehicleEF	UBUS	3.0000e-003	7.7722e-003
tblVehicleEF	UBUS	0.13	4.5608e-003
tblVehicleEF	UBUS	6.0100e-004	3.6560e-005
tblVehicleEF	UBUS	3.4740e-003	3.3865e-004
tblVehicleEF	UBUS	0.07	5.2841e-003
tblVehicleEF	UBUS	2.0410e-003	2.0916e-004
tblVehicleEF	UBUS	0.51	0.15
tblVehicleEF	UBUS	0.01	0.04
tblVehicleEF	UBUS	0.86	0.05
tblVehicleEF	UBUS	0.02	7.4357e-003
tblVehicleEF	UBUS	1.5230e-003	9.2163e-005
tblVehicleEF	UBUS	3.4740e-003	3.3865e-004
tblVehicleEF	UBUS	0.07	5.2841e-003
tblVehicleEF	UBUS	2.0410e-003	2.0916e-004
tblVehicleEF	UBUS	0.87	3.86
tblVehicleEF	UBUS	0.01	0.04
tblVehicleEF	UBUS	0.94	0.06
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	94.36	10.09
tblVehicleTrips	ST_TR	1.68	0.06
tblVehicleTrips	SU_TR	72.16	10.09
tblVehicleTrips	SU_TR	1.68	0.06
tblVehicleTrips	WD_TR	89.95	10.09
tblVehicleTrips	WD_TR	1.68	0.06
tblWater	AerobicPercent	87.46	10.00

tblWater	AerobicPercent	87.46	10.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	90.00
tblWater	IndoorWaterUseRate	1,353,760.36	84,863.00
tblWater	IndoorWaterUseRate	12,025,000.00	1,200,000.00
tblWater	OutdoorWaterUseRate	86,410.24	0.00
tblWater	SepticTankPercent	10.33	90.00
tblWater	SepticTankPercent	10.33	0.00

## 2.0 Emissions Summary

### 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2500	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.5891	3.5891	0.0000	0.0000	3.5891
Mobile	0.0260	0.0401	0.1440	2.6000e-004	0.0234	5.7000e-004	0.0240	6.2800e-003	5.4000e-004	6.8200e-003	0.0000	26.8012	26.8012	2.3700e-003	0.0000	26.8606
Offroad	0.0505	0.4549	0.4138	5.4000e-004		0.0339	0.0339		0.0312	0.0312	0.0000	47.0774	47.0774	0.0152	0.0000	47.4581
Stationary	2.2000e-004	4.4000e-004	3.8400e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2692	4.2692	8.0000e-005	0.0000	4.2712
Waste						0.0000	0.0000		0.0000	0.0000	10.7484	0.0000	10.7484	0.6352	0.0000	26.6286
Water						0.0000	0.0000		0.0000	0.0000	0.4276	0.3116	0.7392	0.4113	9.9000e-004	11.3160
<b>Total</b>	<b>0.3267</b>	<b>0.4954</b>	<b>0.5621</b>	<b>8.2000e-004</b>	<b>0.0234</b>	<b>0.0348</b>	<b>0.0581</b>	<b>6.2800e-003</b>	<b>0.0320</b>	<b>0.0383</b>	<b>11.1759</b>	<b>82.0496</b>	<b>93.2255</b>	<b>1.0642</b>	<b>9.9000e-004</b>	<b>120.1247</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2500	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.5891	3.5891	0.0000	0.0000	3.5891
Mobile	0.0260	0.0401	0.1440	2.6000e-004	0.0234	5.7000e-004	0.0240	6.2800e-003	5.4000e-004	6.8200e-003	0.0000	26.8012	26.8012	2.3700e-003	0.0000	26.8606
Offroad	0.0505	0.4549	0.4138	5.4000e-004		0.0339	0.0339		0.0312	0.0312	0.0000	47.0774	47.0774	0.0152	0.0000	47.4581
Stationary	2.2000e-004	4.4000e-004	3.8400e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2692	4.2692	8.0000e-005	0.0000	4.2712
Waste						0.0000	0.0000		0.0000	0.0000	10.7484	0.0000	10.7484	0.6352	0.0000	26.6286
Water						0.0000	0.0000		0.0000	0.0000	0.4276	0.3116	0.7392	0.4113	9.9000e-004	11.3160
<b>Total</b>	<b>0.3267</b>	<b>0.4954</b>	<b>0.5621</b>	<b>8.2000e-004</b>	<b>0.0234</b>	<b>0.0348</b>	<b>0.0581</b>	<b>6.2800e-003</b>	<b>0.0320</b>	<b>0.0383</b>	<b>11.1759</b>	<b>82.0496</b>	<b>93.2255</b>	<b>1.0642</b>	<b>9.9000e-004</b>	<b>120.1247</b>

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0260	0.0401	0.1440	2.6000e-004	0.0234	5.7000e-004	0.0240	6.2800e-003	5.4000e-004	6.8200e-003	0.0000	26.8012	26.8012	2.3700e-003	0.0000	26.8606
Unmitigated	0.0260	0.0401	0.1440	2.6000e-004	0.0234	5.7000e-004	0.0240	6.2800e-003	5.4000e-004	6.8200e-003	0.0000	26.8012	26.8012	2.3700e-003	0.0000	26.8606

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Quality Restaurant	45.00	45.00	45.00	53,379	53,379
Unrefrigerated Warehouse-No Rail	3.12	3.12	3.12	9,765	9,765
Total	48.12	48.12	48.12	63,144	63,144

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Unrefrigerated Warehouse-No Rail	9.50	7.30	7.30	59.00	0.00	41.00	100	0	0

## 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Quality Restaurant	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190
Unrefrigerated Warehouse-No Rail	0.568926	0.041373	0.172015	0.112977	0.030659	0.007080	0.028564	0.025868	0.003029	0.001930	0.005517	0.000872	0.001190

## 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	3.5891	3.5891	0.0000	0.0000	3.5891
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3.5891	3.5891	0.0000	0.0000	3.5891
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**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					
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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					

Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	80080	3.5891	0.0000	0.0000	3.5891
<b>Total</b>		<b>3.5891</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.5891</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No	80080	3.5891	0.0000	0.0000	3.5891
<b>Total</b>		<b>3.5891</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.5891</b>

### 6.0 Area Detail

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## 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2500	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-003
Unmitigated	0.2500	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-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	0.0294					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2205					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-003
<b>Total</b>	<b>0.2500</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0800e-003</b>

### 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	0.0294					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2205					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-003
<b>Total</b>	<b>0.2500</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0800e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.7392	0.4113	9.9000e-004	11.3160
Unmitigated	0.7392	0.4113	9.9000e-004	11.3160

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

Quality Restaurant	0.084863 / 0	0.0236	0.0174	7.0000e-005	0.4770
Unrefrigerated Warehouse-No	1.2 / 0	0.7156	0.3939	9.2000e-004	10.8390
<b>Total</b>		<b>0.7392</b>	<b>0.4113</b>	<b>9.9000e-004</b>	<b>11.3160</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Quality Restaurant	0.084863 / 0	0.0236	0.0174	7.0000e-005	0.4770
Unrefrigerated Warehouse-No	1.2 / 0	0.7156	0.3939	9.2000e-004	10.8390
<b>Total</b>		<b>0.7392</b>	<b>0.4113</b>	<b>9.9000e-004</b>	<b>11.3160</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.7484	0.6352	0.0000	26.6286
Unmitigated	10.7484	0.6352	0.0000	26.6286

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Quality Restaurant	4.07	0.8262	0.0488	0.0000	2.0468
Unrefrigerated Warehouse-No	48.88	9.9222	0.5864	0.0000	24.5818
<b>Total</b>		<b>10.7484</b>	<b>0.6352</b>	<b>0.0000</b>	<b>26.6286</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Quality Restaurant	4.07	0.8262	0.0488	0.0000	2.0468
Unrefrigerated Warehouse-No	48.88	9.9222	0.5864	0.0000	24.5818
<b>Total</b>		<b>10.7484</b>	<b>0.6352</b>	<b>0.0000</b>	<b>26.6286</b>

## 9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	8	4.00	260	60	0.20	CNG

**UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	0.0505	0.4549	0.4138	5.4000e-004		0.0339	0.0339		0.0312	0.0312	0.0000	47.0774	47.0774	0.0152	0.0000	47.4581
<b>Total</b>	<b>0.0505</b>	<b>0.4549</b>	<b>0.4138</b>	<b>5.4000e-004</b>		<b>0.0339</b>	<b>0.0339</b>		<b>0.0312</b>	<b>0.0312</b>	<b>0.0000</b>	<b>47.0774</b>	<b>47.0774</b>	<b>0.0152</b>	<b>0.0000</b>	<b>47.4581</b>

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	1	0	80	4.5	CNG

**User Defined Equipment**

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/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
Equipment Type	tons/yr										MT/yr					



Boiler - CNG (2 - 5 MMBTU)	2.2000e- 004	4.4000e- 004	3.8400e- 003	2.0000e- 005		3.0000e- 004	3.0000e- 004		3.0000e- 004	3.0000e- 004	0.0000	4.2692	4.2692	8.0000e- 005	0.0000	4.2712
<b>Total</b>	<b>2.2000e- 004</b>	<b>4.4000e- 004</b>	<b>3.8400e- 003</b>	<b>2.0000e- 005</b>		<b>3.0000e- 004</b>	<b>3.0000e- 004</b>		<b>3.0000e- 004</b>	<b>3.0000e- 004</b>	<b>0.0000</b>	<b>4.2692</b>	<b>4.2692</b>	<b>8.0000e- 005</b>	<b>0.0000</b>	<b>4.2712</b>

## 11.0 Vegetation

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Caneros Vintners - Construction - Sonoma-San Francisco County, Annual

**Caneros Vintners - Construction**  
**Sonoma-San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Manufacturing	22.00	1000sqft	0.51	22,000.00	0
Other Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	98	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

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

Project Characteristics - SCE  
 Land Use - New building construction. Estimated approximately 1 acre of asphalt  
 Vehicle Trips - Operational addressed seperately  
 Energy Use - Operational addressed seperately  
 Water And Wastewater - Operational addressed seperately  
 Solid Waste - Operational addressed seperately  
 Operational Off-Road Equipment -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	T24E	1.48	0.00
tblEnergyUse	T24NG	19.71	0.00
tblProjectCharacteristics	CO2IntensityFactor	0	98
tblSolidWaste	SolidWasteGenerationRate	27.28	0.00
tblVehicleTrips	ST_TR	1.49	0.00
tblVehicleTrips	SU_TR	0.62	0.00
tblVehicleTrips	WD_TR	3.82	0.00
tblWater	IndoorWaterUseRate	5,087,500.00	0.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

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

2021	0.1509	1.1984	1.0708	2.0300e-003	0.0355	0.0566	0.0920	0.0134	0.0542	0.0676	0.0000	172.7945	172.7945	0.0290	0.0000	173.5182
2022	0.1946	0.5350	0.5521	1.0600e-003	0.0112	0.0235	0.0347	3.0500e-003	0.0226	0.0257	0.0000	89.9556	89.9556	0.0142	0.0000	90.3093
<b>Maximum</b>	<b>0.1946</b>	<b>1.1984</b>	<b>1.0708</b>	<b>2.0300e-003</b>	<b>0.0355</b>	<b>0.0566</b>	<b>0.0920</b>	<b>0.0134</b>	<b>0.0542</b>	<b>0.0676</b>	<b>0.0000</b>	<b>172.7945</b>	<b>172.7945</b>	<b>0.0290</b>	<b>0.0000</b>	<b>173.5182</b>

### 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										M/yr					
2021	0.1509	1.1984	1.0708	2.0300e-003	0.0355	0.0566	0.0920	0.0134	0.0542	0.0676	0.0000	172.7944	172.7944	0.0290	0.0000	173.5180
2022	0.1946	0.5350	0.5521	1.0600e-003	0.0112	0.0235	0.0347	3.0500e-003	0.0226	0.0257	0.0000	89.9555	89.9555	0.0142	0.0000	90.3093
<b>Maximum</b>	<b>0.1946</b>	<b>1.1984</b>	<b>1.0708</b>	<b>2.0300e-003</b>	<b>0.0355</b>	<b>0.0566</b>	<b>0.0920</b>	<b>0.0134</b>	<b>0.0542</b>	<b>0.0676</b>	<b>0.0000</b>	<b>172.7944</b>	<b>172.7944</b>	<b>0.0290</b>	<b>0.0000</b>	<b>173.5180</b>

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	0.6025	0.6025
2	9-1-2021	11-30-2021	0.5493	0.5493
3	12-1-2021	2-28-2022	0.5146	0.5146
4	3-1-2022	5-31-2022	0.4095	0.4095
		<b>Highest</b>	<b>0.6025</b>	<b>0.6025</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	4/27/2022	5/10/2022	5	10	
2	Building Construction	Building Construction	7/7/2021	4/12/2022	5	200	
3	Demolition	Demolition	6/1/2021	6/28/2021	5	20	
4	Grading	Grading	7/1/2021	7/6/2021	5	4	
5	Paving	Paving	4/13/2022	4/26/2022	5	10	
6	Site Preparation	Site Preparation	6/29/2021	6/30/2021	5	2	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 33,000; Non-Residential Outdoor: 11,000; Striped Parking Area:

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	231	0.29

Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

### 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
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	28.00	11.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

### 3.2 Architectural Coating - 2022

#### Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
<b>Total</b>	<b>0.1248</b>	<b>7.0400e-003</b>	<b>9.0700e-003</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2787</b>

#### Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	8.5000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2017	0.2017	1.0000e-005	0.0000	0.2019

<b>Total</b>	<b>1.2000e-004</b>	<b>8.0000e-005</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.2017</b>	<b>0.2017</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2019</b>
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
<b>Total</b>	<b>0.1248</b>	<b>7.0400e-003</b>	<b>9.0700e-003</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2787</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	8.5000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2017	0.2017	1.0000e-005	0.0000	0.2019
<b>Total</b>	<b>1.2000e-004</b>	<b>8.0000e-005</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.2017</b>	<b>0.2017</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2019</b>

**3.3 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1160	0.8727	0.8256	1.4100e-003		0.0438	0.0438		0.0423	0.0423	0.0000	116.1905	116.1905	0.0207	0.0000	116.7091
<b>Total</b>	<b>0.1160</b>	<b>0.8727</b>	<b>0.8256</b>	<b>1.4100e-003</b>		<b>0.0438</b>	<b>0.0438</b>		<b>0.0423</b>	<b>0.0423</b>	<b>0.0000</b>	<b>116.1905</b>	<b>116.1905</b>	<b>0.0207</b>	<b>0.0000</b>	<b>116.7091</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2400e-003	0.0767	0.0188	1.9000e-004	4.5600e-003	1.9000e-004	4.7600e-003	1.3200e-003	1.8000e-004	1.5000e-003	0.0000	17.9620	17.9620	1.0700e-003	0.0000	17.9887
Worker	7.9200e-003	5.5400e-003	0.0565	1.4000e-004	0.0141	1.1000e-004	0.0142	3.7400e-003	1.0000e-004	3.8400e-003	0.0000	12.5073	12.5073	4.2000e-004	0.0000	12.5179

<b>Total</b>	<b>0.0102</b>	<b>0.0822</b>	<b>0.0752</b>	<b>3.3000e-004</b>	<b>0.0186</b>	<b>3.0000e-004</b>	<b>0.0189</b>	<b>5.0600e-003</b>	<b>2.8000e-004</b>	<b>5.3400e-003</b>	<b>0.0000</b>	<b>30.4693</b>	<b>30.4693</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>30.5066</b>
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1160	0.8727	0.8256	1.4100e-003		0.0438	0.0438		0.0423	0.0423	0.0000	116.1903	116.1903	0.0207	0.0000	116.7089
<b>Total</b>	<b>0.1160</b>	<b>0.8727</b>	<b>0.8256</b>	<b>1.4100e-003</b>		<b>0.0438</b>	<b>0.0438</b>		<b>0.0423</b>	<b>0.0423</b>	<b>0.0000</b>	<b>116.1903</b>	<b>116.1903</b>	<b>0.0207</b>	<b>0.0000</b>	<b>116.7089</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2400e-003	0.0767	0.0188	1.9000e-004	4.5600e-003	1.9000e-004	4.7600e-003	1.3200e-003	1.8000e-004	1.5000e-003	0.0000	17.9620	17.9620	1.0700e-003	0.0000	17.9887
Worker	7.9200e-003	5.5400e-003	0.0565	1.4000e-004	0.0141	1.1000e-004	0.0142	3.7400e-003	1.0000e-004	3.8400e-003	0.0000	12.5073	12.5073	4.2000e-004	0.0000	12.5179
<b>Total</b>	<b>0.0102</b>	<b>0.0822</b>	<b>0.0752</b>	<b>3.3000e-004</b>	<b>0.0186</b>	<b>3.0000e-004</b>	<b>0.0189</b>	<b>5.0600e-003</b>	<b>2.8000e-004</b>	<b>5.3400e-003</b>	<b>0.0000</b>	<b>30.4693</b>	<b>30.4693</b>	<b>1.4900e-003</b>	<b>0.0000</b>	<b>30.5066</b>

**3.3 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0594	0.4501	0.4582	7.9000e-004		0.0212	0.0212		0.0205	0.0205	0.0000	65.3677	65.3677	0.0114	0.0000	65.6523
<b>Total</b>	<b>0.0594</b>	<b>0.4501</b>	<b>0.4582</b>	<b>7.9000e-004</b>		<b>0.0212</b>	<b>0.0212</b>		<b>0.0205</b>	<b>0.0205</b>	<b>0.0000</b>	<b>65.3677</b>	<b>65.3677</b>	<b>0.0114</b>	<b>0.0000</b>	<b>65.6523</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1600e-003	0.0410	9.6800e-003	1.0000e-004	2.5700e-003	9.0000e-005	2.6600e-003	7.4000e-004	9.0000e-005	8.3000e-004	0.0000	10.0098	10.0098	5.9000e-004	0.0000	10.0244
Worker	4.1300e-003	2.7700e-003	0.0285	8.0000e-005	7.9100e-003	6.0000e-005	7.9700e-003	2.1100e-003	5.0000e-005	2.1600e-003	0.0000	6.7779	6.7779	2.1000e-004	0.0000	6.7832

<b>Total</b>	<b>5.2900e-003</b>	<b>0.0437</b>	<b>0.0381</b>	<b>1.8000e-004</b>	<b>0.0105</b>	<b>1.5000e-004</b>	<b>0.0106</b>	<b>2.8500e-003</b>	<b>1.4000e-004</b>	<b>2.9900e-003</b>	<b>0.0000</b>	<b>16.7877</b>	<b>16.7877</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>16.8076</b>
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0594	0.4501	0.4582	7.9000e-004		0.0212	0.0212		0.0205	0.0205	0.0000	65.3676	65.3676	0.0114	0.0000	65.6522
<b>Total</b>	<b>0.0594</b>	<b>0.4501</b>	<b>0.4582</b>	<b>7.9000e-004</b>		<b>0.0212</b>	<b>0.0212</b>		<b>0.0205</b>	<b>0.0205</b>	<b>0.0000</b>	<b>65.3676</b>	<b>65.3676</b>	<b>0.0114</b>	<b>0.0000</b>	<b>65.6522</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1600e-003	0.0410	9.6800e-003	1.0000e-004	2.5700e-003	9.0000e-005	2.6600e-003	7.4000e-004	9.0000e-005	8.3000e-004	0.0000	10.0098	10.0098	5.9000e-004	0.0000	10.0244
Worker	4.1300e-003	2.7700e-003	0.0285	8.0000e-005	7.9100e-003	6.0000e-005	7.9700e-003	2.1100e-003	5.0000e-005	2.1600e-003	0.0000	6.7779	6.7779	2.1000e-004	0.0000	6.7832
<b>Total</b>	<b>5.2900e-003</b>	<b>0.0437</b>	<b>0.0381</b>	<b>1.8000e-004</b>	<b>0.0105</b>	<b>1.5000e-004</b>	<b>0.0106</b>	<b>2.8500e-003</b>	<b>1.4000e-004</b>	<b>2.9900e-003</b>	<b>0.0000</b>	<b>16.7877</b>	<b>16.7877</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>16.8076</b>

**3.4 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0199	0.1970	0.1449	2.4000e-004		0.0104	0.0104		9.7100e-003	9.7100e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060
<b>Total</b>	<b>0.0199</b>	<b>0.1970</b>	<b>0.1449</b>	<b>2.4000e-004</b>		<b>0.0104</b>	<b>0.0104</b>		<b>9.7100e-003</b>	<b>9.7100e-003</b>	<b>0.0000</b>	<b>21.0713</b>	<b>21.0713</b>	<b>5.3900e-003</b>	<b>0.0000</b>	<b>21.2060</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	4.0000e-004	4.1000e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.9073	0.9073	3.0000e-005	0.0000	0.9081

Total	5.7000e-004	4.0000e-004	4.1000e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.9073	0.9073	3.0000e-005	0.0000	0.9081
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0199	0.1970	0.1449	2.4000e-004		0.0104	0.0104		9.7100e-003	9.7100e-003	0.0000	21.0713	21.0713	5.3900e-003	0.0000	21.2060
<b>Total</b>	<b>0.0199</b>	<b>0.1970</b>	<b>0.1449</b>	<b>2.4000e-004</b>		<b>0.0104</b>	<b>0.0104</b>		<b>9.7100e-003</b>	<b>9.7100e-003</b>	<b>0.0000</b>	<b>21.0713</b>	<b>21.0713</b>	<b>5.3900e-003</b>	<b>0.0000</b>	<b>21.2060</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	4.0000e-004	4.1000e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.9073	0.9073	3.0000e-005	0.0000	0.9081
<b>Total</b>	<b>5.7000e-004</b>	<b>4.0000e-004</b>	<b>4.1000e-003</b>	<b>1.0000e-005</b>	<b>1.0200e-003</b>	<b>1.0000e-005</b>	<b>1.0300e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.9073</b>	<b>0.9073</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.9081</b>

**3.5 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5800e-003	0.0287	0.0127	3.0000e-005		1.2800e-003	1.2800e-003		1.1700e-003	1.1700e-003	0.0000	2.4767	2.4767	8.0000e-004	0.0000	2.4968
<b>Total</b>	<b>2.5800e-003</b>	<b>0.0287</b>	<b>0.0127</b>	<b>3.0000e-005</b>	<b>9.8300e-003</b>	<b>1.2800e-003</b>	<b>0.0111</b>	<b>5.0500e-003</b>	<b>1.1700e-003</b>	<b>6.2200e-003</b>	<b>0.0000</b>	<b>2.4767</b>	<b>2.4767</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.4968</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.0000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1117	0.1117	0.0000	0.0000	0.1118



Total	7.0000e-005	5.0000e-005	5.0000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1117	0.1117	0.0000	0.0000	0.1118
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5800e-003	0.0287	0.0127	3.0000e-005		1.2800e-003	1.2800e-003		1.1700e-003	1.1700e-003	0.0000	2.4767	2.4767	8.0000e-004	0.0000	2.4968
<b>Total</b>	<b>2.5800e-003</b>	<b>0.0287</b>	<b>0.0127</b>	<b>3.0000e-005</b>	<b>9.8300e-003</b>	<b>1.2800e-003</b>	<b>0.0111</b>	<b>5.0500e-003</b>	<b>1.1700e-003</b>	<b>6.2200e-003</b>	<b>0.0000</b>	<b>2.4767</b>	<b>2.4767</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.4968</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.0000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1117	0.1117	0.0000	0.0000	0.1118
<b>Total</b>	<b>7.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1117</b>	<b>0.1117</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1118</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9315
Paving	1.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.7500e-003</b>	<b>0.0339</b>	<b>0.0440</b>	<b>7.0000e-005</b>		<b>1.7400e-003</b>	<b>1.7400e-003</b>		<b>1.6000e-003</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>5.8848</b>	<b>5.8848</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.9315</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.8000e-004	1.8400e-003	0.0000	5.1000e-004	0.0000	5.1000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4371	0.4371	1.0000e-005	0.0000	0.4374

Total	2.7000e-004	1.8000e-004	1.8400e-003	0.0000	5.1000e-004	0.0000	5.1000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4371	0.4371	1.0000e-005	0.0000	0.4374
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### Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9314
Paving	1.3100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.7500e-003</b>	<b>0.0339</b>	<b>0.0440</b>	<b>7.0000e-005</b>		<b>1.7400e-003</b>	<b>1.7400e-003</b>		<b>1.6000e-003</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>5.8848</b>	<b>5.8848</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.9314</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.8000e-004	1.8400e-003	0.0000	5.1000e-004	0.0000	5.1000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4371	0.4371	1.0000e-005	0.0000	0.4374
<b>Total</b>	<b>2.7000e-004</b>	<b>1.8000e-004</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4371</b>	<b>0.4371</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4374</b>

## 3.7 Site Preparation - 2021

### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5600e-003	0.0174	7.5600e-003	2.0000e-005		7.7000e-004	7.7000e-004		7.0000e-004	7.0000e-004	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241
<b>Total</b>	<b>1.5600e-003</b>	<b>0.0174</b>	<b>7.5600e-003</b>	<b>2.0000e-005</b>	<b>5.8000e-003</b>	<b>7.7000e-004</b>	<b>6.5700e-003</b>	<b>2.9500e-003</b>	<b>7.0000e-004</b>	<b>3.6500e-003</b>	<b>0.0000</b>	<b>1.5118</b>	<b>1.5118</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5241</b>

### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	2.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0558	0.0558	0.0000	0.0000	0.0559

Total	4.0000e-005	2.0000e-005	2.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0558	0.0558	0.0000	0.0000	0.0559
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5600e-003	0.0174	7.5600e-003	2.0000e-005		7.7000e-004	7.7000e-004		7.0000e-004	7.0000e-004	0.0000	1.5118	1.5118	4.9000e-004	0.0000	1.5241
<b>Total</b>	<b>1.5600e-003</b>	<b>0.0174</b>	<b>7.5600e-003</b>	<b>2.0000e-005</b>	<b>5.8000e-003</b>	<b>7.7000e-004</b>	<b>6.5700e-003</b>	<b>2.9500e-003</b>	<b>7.0000e-004</b>	<b>3.6500e-003</b>	<b>0.0000</b>	<b>1.5118</b>	<b>1.5118</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5241</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	2.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0558	0.0558	0.0000	0.0000	0.0559
<b>Total</b>	<b>4.0000e-005</b>	<b>2.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0558</b>	<b>0.0558</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0559</b>

**CalEEMod EMFAC2017 Emission Factors Input**

Season	EmissionType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
A	CH4_IDLEX	0	0	0	0	0.004131	0.002931	0.002446	0.020634254	0.0073	0	0	0.029227	0
A	CH4_RUNEX	0.002594	0.007183	0.004358	0.005275	0.013021	0.008215	0.002051	0.042248399	0.005603	3.172588	0.361111	0.004342	0.014556
A	CH4_STREX	0.053464	0.088711	0.076997	0.094365	0.014401	0.008451	0.007358	3.97902E-07	0.020045	0.011021	0.26847	0.002514	0.023237
A	CO_IDLEX	0	0	0	0	0.159504	0.129558	0.334535	5.379331733	0.616211	0	0	1.499194	0
A	CO_RUNEX	0.647237	1.402328	0.941323	1.052425	1.277414	0.798678	0.282515	0.44613952	0.66852	24.49893	21.87892	0.323712	1.608319
A	CO_STREX	2.308685	2.684202	2.989117	3.575911	0.967096	0.552451	0.95486	0.019858504	2.286373	0.840986	9.164046	0.373157	2.190237
A	CO2_NBIO_IDLEX	0	0	0	0	9.632739	14.95358	70.6521	922.434166	97.53535	0	0	336.7184	0
A	CO2_NBIO_RUNEX	252.6983	309.496	328.6414	404.4244	767.968	780.0031	1058.104	1472.048131	1365.339	1777.039	217.8335	1081.665	1554.495
A	CO2_NBIO_STREX	52.67792	66.18002	70.37408	86.08513	9.445491	6.904583	6.946668	0.195029176	16.91158	8.701056	63.7243	2.165308	18.31663
A	NOX_IDLEX	0	0	0	0	0.097047	0.125688	0.415625	4.906739156	0.392132	0	0	3.230033	0
A	NOX_RUNEX	0.042649	0.132598	0.092316	0.111028	1.778002	1.497935	1.569401	2.908457105	1.479796	0.596364	1.192565	4.311953	1.956073
A	NOX_STREX	0.193176	0.315271	0.318783	0.399985	0.269794	0.178167	1.815816	2.771609822	1.051909	0.07907	0.275801	0.987563	0.236384
A	PM10_IDLEX	0	0	0	0	0.001143	0.001514	0.000399	0.003198722	0.00013	0	0	0.002833	0
A	PM10_PMBW	0.03675	0.03675	0.03675	0.03675	0.07644	0.08918	0.13034	0.058343682	0.13034	0.075778	0.01176	0.7448	0.13034
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.01023	0.010904	0.012	0.033986297	0.012	0.031089	0.004	0.01132	0.013246
A	PM10_RUNEX	0.00163	0.002348	0.001617	0.001737	0.020716	0.021852	0.007882	0.022708272	0.007486	0.004278	0.002125	0.027421	0.042448
A	PM10_STREX	0.001845	0.002757	0.001879	0.002073	0.000264	0.000112	9.92E-05	4.45705E-06	0.000179	7.15E-05	0.003439	2.62E-05	0.000271
A	PM25_IDLEX	0	0	0	0	0.001094	0.001449	0.000381	0.003060347	0.000124	0	0	0.002711	0
A	PM25_PMBW	0.01575	0.01575	0.01575	0.01575	0.03276	0.03822	0.05586	0.025004435	0.05586	0.032476	0.00504	0.3192	0.05586
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.002557	0.002726	0.003	0.008496574	0.003	0.007772	0.001	0.00283	0.003312
A	PM25_RUNEX	0.001504	0.002163	0.001488	0.001604	0.019773	0.020886	0.007537	0.021725813	0.007149	0.004088	0.001992	0.026226	0.040563
A	PM25_STREX	0.001696	0.002535	0.001728	0.001906	0.000242	0.000103	9.12E-05	4.09809E-06	0.000165	6.58E-05	0.00325	2.41E-05	0.000249
A	ROG_DIURN	0.043546	0.134596	0.074732	0.089054	0.002244	0.000929	0.000421	1.42113E-05	0.001405	0.000275	1.816826	0.0002	0.781914
A	ROG_HTSK	0.111396	0.279488	0.162029	0.193026	0.096847	0.042104	0.021624	0.000753313	0.022438	0.004107	0.891885	0.002028	0.072659
A	ROG_IDLEX	0	0	0	0	0.01917	0.015595	0.014427	0.36887077	0.049562	0	0	0.144314	0
A	ROG_RESTL	0.036457	0.101525	0.065406	0.080812	0.001085	0.000494	0.000207	7.29566E-06	0.000596	0.000165	0.967742	9.18E-05	0.277031
A	ROG_RUNEX	0.010464	0.032591	0.018489	0.023201	0.151046	0.135269	0.019121	0.029133252	0.033878	0.046854	2.517371	0.073763	0.098733
A	ROG_RUNLS	0.231736	1.055426	0.598248	0.660677	0.789205	0.285099	0.136551	0.004878975	0.287942	0.027219	2.590102	0.014548	1.769816
A	ROG_STREX	0.243773	0.466941	0.373165	0.487103	0.075047	0.042519	0.041693	2.07869E-06	0.10733	0.048382	2.089923	0.01409	0.099758
A	SO2_IDLEX	0	0	0	0	9.28E-05	0.000143	0.00067	0.008614779	0.000927	0	0	0.003194	0
A	SO2_RUNEX	0.000107	0.00306	0.010053	0.003997	0.007459	0.007515	0.010053	0.013581821	0.013151	0.007578	0.002156	0.010284	0.01524
A	SO2_STREX	0	0	6.87E-05	0.000852	9.35E-05	6.83E-05	6.87E-05	1.92997E-06	0.000167	8.61E-05	0.000631	2.14E-05	0.000181
A	TOG_DIURN	0.043546	0.134596	0.074732	0.089054	0.002244	0.000929	0.000421	1.42113E-05	0.001405	0.000275	1.816826	0.0002	0.781914
A	TOG_HTSK	0.111396	0.279488	0.162029	0.193026	0.096847	0.042104	0.021624	0.000753313	0.022438	0.004107	0.891885	0.002028	0.072659
A	TOG_IDLEX	0	0	0	0	0.026543	0.020847	0.019205	0.423453666	0.06384	0	0	0.203221	0
A	TOG_RESTL	0.036457	0.101525	0.065406	0.080812	0.001085	0.000494	0.000207	7.29566E-06	0.000596	0.000165	0.967742	9.18E-05	0.277031
A	TOG_RUNEX	0.015172	0.047498	0.026926	0.033655	0.184923	0.157601	0.024228	0.074543741	0.046701	3.239625	3.074746	0.085782	0.130509
A	TOG_RUNLS	0.231736	1.055426	0.598248	0.660677	0.789205	0.285099	0.136551	0.004878975	0.287942	0.027219	2.590102	0.014548	1.769816
A	TOG_STREX	0.2669	0.51124	0.408568	0.533307	0.082167	0.046553	0.045649	2.2759E-06	0.117513	0.052973	2.273037	0.015427	0.109223

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SONOMA

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2017 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUMEX, PMWB and PMTW, g/hr for STREX, HTSX and RUMLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

Region	Calendar Y	Vehicle Ca	Model Year	Speed	Fuel	Population/VMT	Trips	Ndx_RUMEX	IDLEX_CO2	STRE	PM2.5_S	PM10_S	PM2.5_S	PM10_S	PM2.5_S	PM10_S	CO2	RUMEX_CO2	IDLEX_CO2	STRE	CH4	RUNE_CH4	IDLEX_CH4	STRE	RUN_ND0	IDLEX_ND0	STRE	RUN	ROG_IDLEX	ROG_STRE	ROG_HOTS	ROG_RUN	ROG_REST	ROG_DIUR	ROG_RUN	TG_IDLEX	TG_STRE	TG_HOTS	TG_RUN	REST	TG_DIUR	CO_RUMEX	IDLEX	CO_STREY	SOX	RUNE_SOX	IDLEX	SOX_STREX		
SONOMA	2023	HHDT	AggregatedAggregatedGAS			4.935691	465.6878	98.75311	7.88241	0	0.044506	0.001292	0	0.000944	0.005	0.022466	0.001408	0	0.000207	0.02	0.066174	2003.762	0	44.58167	0.151165	0	9.121-05	0.162755	0	0.007365	0.958819	0	0.000479	0.172613	1.12444	0.033642	0.065531	0.873503	0	0.000525	0.173613	1.2444	0.033642	0.065531	41.91574	0	4.576718	0.019829	0	0.000445
SONOMA	2023	HHDT	AggregatedAggregatedDSL			2171.172	220416.7	22413.07	2.93184	50.81326	2.812466	0.021961	0.031205	0	0.008498	0.0024884	0.022954	0.032511	0	0.033992	0.058297	1451.054	9558.554	0	0.001325	0.179635	0	0.2284	1.502472	0	0.026263	3.86531	0	0	0	0.030013	4.400384	0	0	0	0	0.238261	55.74993	0	0.013728	0.090304	0			
SONOMA	2023	HHDT	AggregatedAggregatedNG			63.4007	2582.182	247.4967	1.709211	21.26915	0	0.005394	0.033373	0	0.009	0.020446	0.005588	0.034882	0	0.036	0.06174	2097.512	3793.14	0	3.530934	1.237806	0	0.011062	0.773256	0	0.162377	0.046548	0	0	0	0	3.731664	1.310243	0	0	0	10.7189	21.86057	0	0	0				
SONOMA	2023	LDA	AggregatedAggregatedGAS			176157.9	6524545	82382.8	0.04583	0	0.20085	0.001411	0	0.0021965	0.002	0.015175	0.001535	0	0.00192	0.008	0.038675	260.2953	0	54.80869	0.00269	0	0.055626	0.004717	0	0.020803	0.010502	0	0.234546	0.115705	0.240965	0.177208	0.211397	0.015465	0	0.277501	0.115705	0.240965	0.177208	0.211397	0.668681	0	2.395601	0.002576	0	0.000542
SONOMA	2023	LDA	AggregatedAggregatedDSL			2584.92	91629.48	11805.86	1.130674	0	0	0.0010899	0	0	0.002	0.015175	0.011297	0	0	0.008	0.038675	217.8413	0	0	0.000978	0	0	0.034242	0	0	0.021054	0	0	0	0	0	0	0	0	0.023968	0	0	0	0	0.286936	0	0.002059	0	0	
SONOMA	2023	LDA	AggregatedAggregatedLEC			4371.499	183748.3	21537.02	0	0	0	0	0	0	0.002	0.015175	0	0	0	0.008	0.038675	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004888	0	0.003133	0.014517	0	0	0.004888	0	0.003133	0.014517	0	0	0		
SONOMA	2023	LD1	AggregatedAggregatedGAS			20616.27	661781.1	93931.62	0.11314	0	0.017631	0.002074	0	0.002556	0.002	0.015175	0.002256	0	0.002779	0.008	0.038675	312.2493	0	66.71196	0.007246	0	0.089437	0.003514	0	0.031799	0.032749	0	0.470436	0.281572	1.06343	0.456131	0.604645	0.04777	0	0.515066	0.281572	1.06343	0.456131	0.604645	1.411298	0	2.698896	0.00309	0	0.00066
SONOMA	2023	LD1	AggregatedAggregatedDSL			25.59446	346.7449	78.43985	1.224203	0	0	0.195643	0	0	0.002	0.015175	0.020489	0	0	0.008	0.038675	434.2986	0	0	0.011824	0	0	0.008266	0	0	0.254574	0	0	0	0	0	0	0	0	0.289815	0	0	0	0	1.381866	0	0.004106	0	0	
SONOMA	2023	LD1	AggregatedAggregatedLEC			134.3707	6027.094	694.3792	0	0	0	0	0	0	0.002	0.015175	0	0	0	0.008	0.038675	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004888	0	0.003128	0.014516	0	0	0.004888	0	0.003128	0.014516	0	0	0		
SONOMA	2023	LD1	AggregatedAggregatedGAS			59959.28	2035745	275131.7	0.095113	0	0.0324124	0.001454	0	0.0051958	0.002	0.015175	0.001583	0	0.005192	0.008	0.038675	331.9983	0	71.6033	0.004426	0	0.073842	0.007247	0	0.034216	0.018543	0	0.379417	0.16471	0.608333	0.305411	0.348853	0.071399	0	0.415413	0.16471	0.608333	0.305411	0.348853	0.953534	0	3.031138	0.003285	0	0.000709
SONOMA	2023	LD1	AggregatedAggregatedDSL			409.2537	15932.3	1963.535	0.066092	0	0	0.007055	0	0	0.002	0.015175	0.007374	0	0	0.008	0.038675	289.7028	0	0	0.000883	0	0	0.045537	0	0	0.019006	0	0	0	0	0	0	0	0.002168	0	0	0	0	0.168844	0	0	0.002739	0	0	
SONOMA	2023	LD1	AggregatedAggregatedLEC			564.4348	18965.03	2842.18	0	0	0	0	0	0	0.002	0.015175	0	0	0	0.008	0.038675	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004888	0	0.003135	0.014574	0	0	0.004888	0	0.003135	0.014574	0	0	0	0		
SONOMA	2023	LD1	AggregatedAggregatedGAS			1320.85	19257.5	88311.84	3.548895	0.039168	0.551147	0.002612	0	0.000495	0.002	0.021676	0.002841	0	0.000539	0.008	0.038675	1014.568	122.0976	19.29566	0.017813	0.119488	0.02942	0.019823	0.002991	0.040782	0.091532	0.44786	0.1153309	0.197944	1.612221	0.033035	0.062888	1.1333	0.653516	1.637855	0.197944	1.612221	0.033035	0.062888	1.708375	3.793865	1.975628	0.010106	0.001208	0.000191
SONOMA	2023	LD1	AggregatedAggregatedDSL			7313.22	24257.8	91991.11	1.907761	2.355886	0	0.033397	0.026954	0	0.003	0.021676	0.002813	0	0.000352	0.008	0.038675	1164.5	140.7582	21.71703	0.009858	0.12439	0.02582	0.016275	0.003089	0.042111	0.141039	0.451887	0.133755	0.132429	0.896724	0.023444	0.043549	0.059884	0.659393	0.023444	0.043549	0.761469	3.795916	1.737626	0.011524	0.001393	0.000215			
SONOMA	2023	LD1	AggregatedAggregatedLEC			894.188	30010.49	13521.77	0.256885	0.039441	0	0.000911	0	0.000032	0.002	0.021676	0.002076	0	0.000352	0.008	0.038675	1164.5	140.7582	21.71703	0.009858	0.12439	0.02582	0.016275	0.003089	0.042111	0.141039	0.451887	0.133755	0.132429	0.896724	0.023444	0.043549	0.059884	0.659393	0.023444	0.043549	0.761469	3.795916	1.737626	0.011524	0.001393	0.000215			
SONOMA	2023	LD1	AggregatedAggregatedGAS			2172.031	79521.61	28579.29	3.866287	2.302424	0	0.028947	0.026714	0	0.003	0.021676	0.002915	0.027922	0	0.012	0.08518	634.9009	220.3197	0	0.007935	0.005098	0	0.009758	0.034641	0	0.170249	0.10276	0	0	0	0	0	0	0	0	0.134478	1.14954	0	0	0.811576	0.909745	0	0.00602	0.000383	
SONOMA	2023	MCY	AggregatedAggregatedGAS			10667.49	68151.8	21334.97	1.192565	0	0.275801	0.001992	0	0.00325	0.001	0.00004	0.002125	0	0.000439	0.004	0.01167	217.8335	0	63.7243	0.061111	0	0.26847	0.067772	0	0.015394	2.517371	0	2.089923	0.891885	2.580102	0.967742	1.816826	3.074746	0	2.273037	0.891885	2.580102	0.967742	1.816826	21.87892	0	1.364046	0.002156	0	0.000631
SONOMA	2023	MDV	AggregatedAggregatedGAS			43877.51	1414038	197769.7	0.1137482	0	0.419209	0.001493	0	0.0031974	0.002	0.015175	0.001624	0	0.000174	0.008	0.038675	408.0975	0	89.18486	0.005458	0	0.090722	0.008631	0	0.018359	0.022366	0	0.504083	0.199737	0.683777	0.376957	0.415325	0.03445	0	0.551899	0.199737	0.683777	0.376957	0.415325	1.082426	0	3.693188	0.004038	0	0.000882
SONOMA	2023	MDV	AggregatedAggregatedDSL			1151.394	48437.86	5470.483	0.050776	0	0	0.005425	0	0	0.002	0.015175	0.005671	0	0	0.008	0.038675	394.1447	0	0	0.000622	0	0	0.006063	0	0	0.013139	0	0	0	0	0	0.015144	0	0	0	0	0.238394	0	0	0.000632	0	0			
SONOMA	2023	MDV	AggregatedAggregatedLEC			307.7773	10665.09	1567.136	0	0	0	0	0	0	0.002	0.015175	0	0	0	0.008	0.038675	0	0	0	0	0	0	0	0	0	0	0	0	0	0.004888	0	0.003121	0.014545	0	0	0.004888	0	0.003121	0.014545	0	0	0	0		
SONOMA	2023	MH	AggregatedAggregatedGAS			1095.311	9265.344	109.5749	0.523611	0	0.341711	0.001738	0	0.000306	0.003	0.005386	0.0031869	0	0.000391	0.012	0.13034	1787.639	0	26.47804	0.018289	0	0.03359	0.030267	0	0.034405	0.081994	0	0.144208	0.105034	2.558398	0.040063	0.113077	1.119645	0	0.15789	0.105034	2.558398	0.040063	0.113077	2109294	0	3.164149	0.01769	0	0.000262
SONOMA	2023	MH	AggregatedAggregatedDSL			488.2364	4192.195	48.82364	1.122016	0	0	0.126417	0	0	0.004	0.005386	0.112133	0																																

Adjustment Factors for EMFAC2017 Gasoline Light Duty Vehicles						
Year	NOx Exhaust	TOG Evaporative	TOG Exhaust	PM Exhaust	CO Exhaust	
NA	1	1	1	1	1	
2021	1.0002	1.0001	1.0002	1.0009	1.0005	
2022	1.0004	1.0003	1.0004	1.0018	1.0014	
2023	1.0007	1.0006	1.0007	1.0032	1.0027	
2024	1.0012	1.0010	1.0011	1.0051	1.0044	
2025	1.0018	1.0016	1.0016	1.0074	1.0065	
2026	1.0023	1.0022	1.0020	1.0091	1.0083	
2027	1.0028	1.0028	1.0024	1.0105	1.0102	
2028	1.0034	1.0035	1.0028	1.0117	1.0120	
2029	1.0040	1.0042	1.0032	1.0129	1.0138	
2030	1.0047	1.0051	1.0037	1.0142	1.0156	
2031	1.0054	1.0061	1.0042	1.0155	1.0173	
2032	1.0061	1.0072	1.0047	1.0169	1.0189	
2033	1.0068	1.0083	1.0052	1.0182	1.0204	
2034	1.0075	1.0095	1.0058	1.0196	1.0218	
2035	1.0081	1.0108	1.0063	1.0210	1.0232	
2036	1.0088	1.0121	1.0069	1.0223	1.0244	
2037	1.0094	1.0134	1.0074	1.0236	1.0255	
2038	1.0099	1.0148	1.0079	1.0248	1.0265	
2039	1.0104	1.0161	1.0085	1.0259	1.0274	
2040	1.0109	1.0174	1.0090	1.0270	1.0281	
2041	1.0113	1.0186	1.0095	1.0279	1.0288	
2042	1.0116	1.0198	1.0099	1.0286	1.0294	
2043	1.0119	1.0207	1.0103	1.0293	1.0299	
2044	1.0122	1.0216	1.0106	1.0299	1.0303	
2045	1.0124	1.0225	1.0109	1.0303	1.0306	
2046	1.0125	1.0233	1.0111	1.0308	1.0309	
2047	1.0127	1.0240	1.0113	1.0311	1.0311	
2048	1.0128	1.0246	1.0115	1.0314	1.0313	
2049	1.0128	1.0252	1.0116	1.0316	1.0315	
2050	1.0129	1.0257	1.0117	1.0318	1.0316	
Enter Year:	2023	1.0007	1.0006	1.0007	1.0032	1.0027

\*PM Exhaust off model factor is only applied to the PM Exhaust emissions not start/idle

The off-model adjustment factors need to be applied only to emissions from gasoline light duty vehicles (LDA, LDT1, LDT2 and MDV). Please note that the adjustment factors are by calendar year and includes all model years.

Enter NA in the date field if adjustments do not apply