



TEMECULA WINERY

AIR QUALITY, ENERGY, AND GREENHOUSE GAS IMPACT ANALYSIS

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1 INTRODUCTION

This Air Quality, Energy, and Greenhouse Gas Analysis evaluates the potential impacts of the proposed Temecula Winery project (proposed project). The project is located within the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The project site is located south of Rancho California Road at Encantado in the County of Riverside. The site is currently developed with a 2,200 square foot (SF) residential building. The proposed project would keep the existing building and build a 46,700 sf winery with restaurant and a 10 room hotel. The regional location and site plan can be found in Figure 1 and Figure 2, respectively.

1.1 Purpose of the Report

To support the CEQA document for the proposed project, this report analyzes the proposed project's construction and operational impacts to air quality (emissions of criteria pollutants), energy usage, and greenhouse gas emissions using the California Emissions Estimator Model (CalEEMod) land use emission model. The thresholds of significance used are the adopted thresholds by the SCAQMD.

1.2 Conclusions

The conclusions for the Air Quality, Energy, and Greenhouse Gas (GHG) analysis are as follows:

Air Quality: The project's maximum daily regional and local construction and operational emissions would not exceed SCAQMD's regional thresholds of significance. In addition, all construction activities would comply with applicable SCAQMD rules and regulations, including Rule 403 to minimize fugitive PM dust emissions. Projects that do not exceed the regional thresholds are assumed to not have a significant impact on a project level and cumulative level. Therefore, the proposed project would have less than significant Air Quality impacts.

Energy: The proposed project has no unusual characteristics that would cause the construction fuel and energy consumption to be less efficient compared with other similar construction sites throughout the state. The construction related consumption would also be temporary and localized. Operation of the of Temecula Winery would comply with all the energy efficiency requirements under Title 24 and all applicable County business and energy regulations, as verified by the County through the permitting processes. Therefore, the construction and operation of the project would not result in inefficient, wasteful, or unnecessary energy use, and impacts would be less than significant.

Greenhouse Gas: The proposed project's net GHG emissions of 1,847 MTCO₂e per year are below the SCAQMD significance threshold of 3,000 MTCO₂e per year. Therefore, the project would result in a less than significant impact on GHG emissions.

Figure 1: Project Location

Figure 2: Project Site Plan

2 CRITERIA POLLUTANTS

Criteria Pollutants are air pollutants with state and national air quality standards that define allowable concentrations of these substances in ambient air. These criteria pollutants include:

- Reactive Organic Gases (ROGs)
- Oxides of nitrogen (NO_x)
- Carbon monoxide (CO)
- Sulfur dioxide (SO_x)
- Particulate matter PM₁₀ (PM₁₀)
- Particulate matter PM_{2.5} (PM_{2.5})

The emissions of these criteria pollutants were estimated for the construction of the proposed project and the net operational emissions of the existing single-family residential home and the proposed project.

2.1 Regional Emission Significance Thresholds

The SCAQMD has adopted maximum daily emission thresholds¹ (pounds/day) for the criteria pollutants during construction and operation of a project. While incremental regional air quality impacts of an individual project are generally very small and difficult to measure, SCAQMDs regional maximum emission thresholds set standards to reduce the burden of SCAQMD to attain and maintain ambient air quality standards. The regional thresholds apply to the criteria pollutants mentioned above and can be found in Table 1: SCAQMD Regional Emission Significance Thresholds. These emission thresholds include the project emissions generated both from onsite sources (such as off-road construction equipment and fugitive dust) and offsite sources (vehicle travel leaving and arriving to the site).

Table 1. SCAQMD Regional Emissions Significance Thresholds

Air Pollutant	Maximum Daily Emissions (pounds/day)	
	Construction	Operation
ROGs	75	55
NO _x	100	55
CO	550	550
SO _x	150	150
PM ₁₀	150	150
PM _{2.5}	55	55

¹ SCAQMD April 2019. Referenced at <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>

2.2 Localized Significance Thresholds

Localized significance thresholds (LSTs) were also adopted by the SCAQMD due to project-related construction or operational air emissions having the potential to exceed the state and national air quality standards in the project vicinity, while not exceeding the regional emission significance thresholds adopted by the SCAQMD. These thresholds set the maximum rates of daily construction or operational emissions from a project site that would not exceed a national or state ambient air quality standard². The differences between regional thresholds and LSTs are as follows:

1. Regional thresholds include all sources of project construction and operational emissions generated from onsite and offsite emission sources whereas the LSTs only consider the emissions generated from onsite emission sources.
2. LSTs only apply to CO, NO_x, PM₁₀, and PM_{2.5}, while regional thresholds include both ROG and SO_x.
3. Regional Thresholds apply to emission sources located anywhere within the SCAQMD whereas the LSTs are location dependent and also depend on the size of the project, and emission location relative to the nearest sensitive receptor.

A sensitive receptor is defined as an individual who is most susceptible to negative health affects when exposed to air pollutants including children, the elderly, and adults with chronic health issues. Such receptors include residences, schools, elderly care centers, and hospitals. SCAQMD provides screening look up tables (Appendix C of the SCAQMD 2008 Final Localized Significance Threshold Methodology)³ for projects that disturb less than or equal to 5 acres in size in a day. These tables were created to easily determine if the daily emissions of NO_x, CO, PM₁₀, and PM_{2.5} from a project could result in a significant impact to the local air quality. The thresholds are determined by:

- Source receptor area (SRA), the geographic area within the SCAQMD that can act as both a source of emissions and a receptor of emission impacts (project is located within SRA 26, Temecula Valley),
- Size of the project,
- Distance to the nearest sensitive receptor.

LSTs for Construction

SCAQMD has published a “Fact sheet for Applying CalEEMod to Localized Significance Thresholds” (SCAQMD 2011)⁴ to calculate the appropriate threshold for LSTs. The CalEEMod model calculates construction emissions based on the number and types of construction equipment, equipment hours, rates of emission, and the maximum daily disturbance activity possible for each piece of equipment for several land use projects and their development intensity. The maximum disturbed area during construction serves as a factor in determining the project size value of the LSTs for Construction. The equipment during the Site Preparation phase, the phase with the largest emissions, was used to

² SCAQMD 2008: Final Localized Significance Threshold Methodology. Referenced at Localized Significance Thresholds (aqmd. <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/localized-significance-thresholds> gov)

³ SCAQMD 2008: Final Localized Significance Threshold Methodology Appendix C. Referenced at <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>

⁴ SCAQMD 2011: Fact Sheet for Applying CalEEMod to Localized Significance Thresholds. Referenced at <http://www.aqmd.gov/docs/defaultsource/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf>

determine the appropriate thresholds. As seen in Table 2: Daily Acres Graded, the project would grade 3.5 acres per day. Therefore, the thresholds between 2 acre and 5 acres from Appendix C will be interpolated as the tables give thresholds for 1 acre, 2 acre, and 5 acre sites. Distance to the nearest sensitive receptor also impacts the emission thresholds. The closest sensitive receptors to the project site are residences to the south of the site that are less than the minimum distance provided in the lookup tables (25 meters). Therefore, pursuant to SCAQMD methodology, a distance of 25 meters was used. Table 3: Construction Localized Significance Thresholds, shows the maximum daily emissions for the proposed project.

Table 2. Daily Acres Graded

Equipmen	#	Total Acres Graded Daily
Rubber Tired Dozers	3	1.5
Tractors/Loaders/Backhoes	4	2
Total	7	3.5

Table 3. Construction Localized Significance Thresholds

Air Pollutant	Maximum Daily Emissions (pounds/day)
NO _x	303
CO	1533
PM ₁₀	10
PM _{2.5}	6

LSTs for Operation

According to the LST methodology, LSTs apply to project stationary mobile sources. Projects that involve mobile sources that spend long periods queuing and idling at a site, such as transfer facilities or warehousing and distribution buildings, have the potential to exceed the operational localized significance thresholds. The proposed project would operate a winery, restaurant, and a 10-room hotel, which do not involve vehicles idling or queueing for long periods. Therefore, due to the lack of significant stationary source emissions, impacts related to operational localized significance thresholds would be less than significant.

2.3 Cumulative Significance Thresholds

The SCAQMD's CEQA Air Quality Significance Thresholds (April 2019) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact. Conversely, projects that do not exceed the thresholds are generally not considered to be cumulatively significant.

Therefore, this analysis assumes that projects that do not generate operational or construction emissions that exceed the SCAQMD's thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which SCAB is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, project-related construction and operational emissions that exceed SCAQMD thresholds would be considered cumulatively considerable.

3 AIR QUALITY PROJECT IMPACT ESTIMATES

3.1 Existing Emissions

The emissions from the existing 2,200 SF residential home would be reduced by the project because the building would only be used for special events. However, for a conservative analysis, no credit was taken for the reduction.

3.2 Construction Emissions

Table 4. Construction Schedule, Table 5. Construction Equipment Inventory, and Table 6. Construction Vehicle Trips were generated using the defaults from CalEEMod. As shown in Table 4, construction of the project would occur over an approximate 16-month period. The worker and vendor trips for Building Construction, Paving, and Architectural Coating were based on the CalEEMod defaults for the building and paving acres as those phases would occur on 3.3 acres.

Table 4. Construction Schedule

Activity	Start Date	End Date	Total Days
Site Preparation	3/22/2021	4/2/2021	10
Grading	4/3/2021	5/14/2021	30
Building Construction	5/15/2021	7/8/2022	300
Paving	7/9/2022	8/5/2022	20
Architectural Coating	8/6/2022	9/2/2022	20

Table 5. Construction Equipment Inventory

Activity	Equipment	Number	Hours per day	Horse-power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8	247	0.40
	Tractors/Loaders/Backhoes	4	8	97	0.37
Grading	Excavators	2	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.40
	Scrapers	2	8	367	0.48
	Tractors/Loaders/Backhoes	2	8	97	0.37
	Cranes	1	8	231	0.29
Building Construction	Forklifts	3	8	89	0.20
	Generator Sets	1	8	84	0.74
	Tractors/Loaders/Backhoes	3	6	97	0.37
	Welders	1	8	46	0.45
	Pavers	2	8	130	0.42
Paving	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	8	78	0.48

Table 6. Construction Vehicle Trips

Activity	Construction Trips per Day		Total Trips
	Worker	Vendor	Haul
Site Preparation	18	0	0
Grading	20	0	0
Model Building Construction	12	5	0
Paving	15	0	0
Architectural Coating	2	0	0

The project's estimated maximum daily regional and localized construction emissions are shown in Table 7: Regional Construction Emission Estimates, and Table 8: Localized Construction Emission Estimates, respectively. As noted from Table 7 and Table 8, the construction of the project would not exceed the SCAQMD regional or localized emission significance thresholds. All CalEEMod output sheets can be found in Appendix A.

Table 7. Regional Construction Emission Estimates

Construction Activity	Maximum Daily Regional Emissions (pounds/day)					
	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
2021						
Site Preparation	4.0	40.5	21.8	0.0	9.3	5.8
Grading	4.3	46.5	31.6	0.1	5.6	3.3
Building Construction	2.1	19.2	18.2	0.0	1.2	1.0
Maximum Daily Emissions	4.3	46.5	31.6	0.1	9.3	5.8
2022						
Building Construction	1.9	17.2	17.9	0.0	1.0	0.9
Paving	1.5	11.2	15.1	0.0	0.7	0.6
Architectural Coating	14.8	1.5	2.0	0.0	0.1	0.1
Maximum Daily Emissions	14.8	17.2	17.9	0.0	1.0	0.9
Maximum Daily Emission 2021-2022	14.8	46.5	31.6	0.1	9.3	5.8
SCAQMD Significance Thresholds	75	100	550	150	150	55
Threshold Exceeded?	No	No	No	No	No	No

Table 8. Localized Construction Emission Estimates

Construction Activity	Maximum Daily Regional Emissions (pounds/day)			
	NO _x	CO	PM ₁₀	PM _{2.5}
2021				
Site Preparation	40.5	21.2	9.1	5.8
Grading	46.4	30.9	5.4	3.2
Model Building Construction	18.7	17.7	1.0	1.0
Maximum Daily Emissions	46.4	30.9	9.1	5.8
2022				
Building Construction	16.8	17.4	0.9	0.8
Paving	11.1	14.6	0.6	0.5
Architectural Coating	1.9	2.4	0.1	0.1
Maximum Daily Emissions	16.8	17.4	0.9	0.8
Maximum Daily Emission 2021-2022	46.4	30.9	9.1	5.8
SCAQMD Significance Thresholds	303	1533	10	6
Threshold Exceeded?	No	No	No	No

3.3 Operational Emissions

Long-term operational emissions would be generated resulting from the day-to-day operations, which include:

- Mobile-source emissions: automobiles traveling to and from the project site
- Area-source emissions: landscaping maintenance activities and periodic architectural coatings
- Energy-source emissions: natural gas and electricity consumption

Based on the project trip generation⁵, the project is expected to generate 704 daily weekday trips and 1,125 daily weekend trips. The mix of vehicles include light duty automobiles, light duty trucks, medium duty trucks, busses, and motorcycles, the types of vehicles that would be associated with a commercial project. For the regional analysis of operational emissions, the default vehicle trip distances provided in the CalEEMod model were applied to the project trips. The emission factors were updated with Air and Resources Board Emission Factor 2017 model (ARB EMFAC 2017), as the CalEEMod defaults use the ARB EMFAC 2014 factors.

The project's estimated maximum daily regional Table 9: Regional Operational Emission Estimates. As noted from Table 9, the operation of the project would not exceed the SCAQMD regional emission significance thresholds. All CalEEMod output sheets can be found in Appendix A.

⁵ EPD Solutions: Temecula Winery Traffic Impact Analysis XX/XX/XXXX

Table 9. Regional Operational Emission Estimates

Operational Activity	Maximum Daily Regional Emissions (pounds/day)					
	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area	0.7	0.0	0.0	0.0	0.0	0.0
Energy	0.0	0.4	0.3	0.0	0.0	0.0
Mobil	3.1	10.5	39.0	0.1	12.2	3.4
Total Project Operational Emissions	3.8	10.9	39.3	0.1	12.2	3.4
SCAQMD Significance Thresholds	55	55	550	150	150	55
Threshold Exceeded?	No	No	No	No	No	No

3.4 Conclusion

As shown above in Tables 7-9, the project's maximum daily regional and localized construction and operational emissions would not exceed SCAQMD's regional thresholds of significance. In addition, all construction activities would comply with applicable SCAQMD rules and regulations, including Rule 403 to minimize fugitive PM dust emissions. As stated previously, projects that do not exceed the regional thresholds are assumed to not have a significant impact on a project level and cumulative level. Therefore, the proposed project would have a less than significant Air Quality impact and no mitigation is required.

4 PROJECT ENERGY ANALYSIS

4.1 Assumptions and Thresholds

The State CEQA Guidelines do not have specific thresholds for Energy consumption. Rather, the question in Appendix G: VI Energy (a) asks, “[Does the proposed project] Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation?”. Therefore, for the purpose of this analysis, a significant impact would occur if:

- The Project design and/or location encourages wasteful, inefficient, and unnecessary consumption of energy, especially fossil fuels such as coal, natural gas, and petroleum, as well as the use of fuel by vehicles anticipated to travel to and from the project.

The following assumptions were used to calculate the energy consumption of the proposed project:

- The project’s construction and operational energy consumption would be provided by Southern California Edison Company.
- Construction equipment fuel consumption derived from ARB Offroad2017 emission model
- Fuel Consumption from vehicle travel derived from ARB EMFAC2017 emission model
- Electrical and natural gas usage derived from the CalEEMod model

4.2 Construction Consumption

Electricity and Natural Gas Usage

Due to the project size and the fact that construction is temporary, the electricity used would be substantially less than that required for project operation and would have a negligible contribution to the project’s overall energy consumption. The electric power used would be for as-necessary lighting and electronic equipment such as computers inside temporary construction trailers. Natural Gas is not anticipated to be needed for construction activities. Any consumption of natural gas would be minor and negligible in comparison to the operation of the proposed project.

Petroleum Fuel Usage

The construction equipment associated with construction activities (off-road/heavy duty vehicles) would rely on diesel fuel as would vendor and haul trucks involved in delivering building materials and removing the demolition debris from the project site. Construction workers would travel to and from the project site throughout the duration of construction, and for a conservative analysis it is assumed that construction workers would travel in gasoline-powered passenger vehicles.

Table 10: Construction Equipment Fuel Usage, used the total fuel consumption and horsepower-hour data contained within the ARB OffRoad2017 emission model for specific types of diesel construction equipment. It should be noted that the total fuel consumption is a conservative analysis and would likely overstate the amount of fuel usage, as specific construction equipment is not expected to operate during the duration of the construction activity (i.e. crane). Table 11: Estimate Project Vehicle Fuel Usage, summarizes the project’s construction vehicle fuel usage based on vehicle miles

traveled and fuel usage factors contained in the ARB EMFAC2017. The trips included are worker vehicles, vendor vehicles, and haul vehicles. Table 12: Total Construction Fuel Usage, shows the overall fuel consumption for construction of the proposed project. Fuel calculations can be found in Appendix B.

Table 10. Construction Equipment Fuel Usage

Activity	Equipment	Number	Hours per day	Horse- power	Load Factor	Days of Construction	Total Horsepower- hours	Fuel Rate (gal/hp- hr)	Fuel Use (gallons)
Site Preparation	Rubber Tired Dozers	3	8	247	0.40	10	23,712	0.020584	488
	Tractors/Loaders/Backhoes	4	8	97	0.37	10	11,485	0.019134	220
Grading	Excavators	2	8	158	0.38	30	28,819	0.019863	572
	Graders	1	8	187	0.41	30	18,401	0.021158	389
	Rubber Tired Dozers	1	8	255	0.40	30	24,480	0.020584	504
	Scrapers	2	8	367	0.48	30	84,557	0.024981	2,112
	Tractors/Loaders/Backhoes	2	8	97	0.37	30	17,227	0.019134	330
Model Building Construction	Cranes	1	8	231	0.29	300	160,776	0.014890	2,394
	Forklifts	3	8	89	0.20	300	128,160	0.010445	1,339
	Generator Sets	1	8	84	0.74	300	149,184	0.042336	6,316
	Tractors/Loaders/Backhoes	3	8	97	0.37	300	258,408	0.019134	4,944
	Welders	1	8	46	0.45	300	49,680	0.025827	1,283
Paving	Pavers	2	8	130	0.42	20	17,472	0.021519	376
	Paving Equipment	2	8	132	0.36	20	15,206	0.018476	281
	Rollers	2	8	80	0.38	20	9,728	0.019841	193
Model Architectural Coating	Air Compressors	1	8	78	0.48	20	5,990	0.027600	165
Total									21,852

Table 11. Estimated Project Vehicle Fuel Usage

Construction Source	Number	VMT	Fuel Rate	Gallons of Diesel Fuel	Gallons of Gasoline Fuel
Vendor Trucks	5	10,350	8.87	1,167	0
Worker Vehicles	67	69,384	28.55	0	2,430
Total				1,167	2,430

Table 12. Total Construction Fuel Usage

Construction Source	Gallons of Diesel Fuel	Gallons of Gasoline Fuel
Construction Vehicles	1,167	2,430
Off-road Construction Equipment	21,852	0
Total	23,019	2,430

4.3 Operational Consumption

The operation of the proposed project would consume electricity, natural gas, and petroleum. The net energy consumption can be found in table 14: Project Annual Operational Energy Requirements, below. Electricity and Natural Gas consumption were found in the Annual CalEEMod Output Sheets in Appendix A. The gasoline consumption rates utilize the same assumptions that were used for the worker vehicles, and can be found in Appendix B.

Table 13. Project Annual Operational Energy Requirements

Operational Source	Energy Usage	
Electricity (Kilowatt-Hours)		
Total	417,565	
Natural Gas (Thousands British Thermal Units)		
Total	1,307,036	
Petroleum (gasoline) Consumption		
	Annual VMT	Gallons of Gasoline Fuel
Total	3,991,028	139,791

4.4 Conclusion

The proposed project has no unusual characteristics that would make the construction fuel and energy consumption associated with construction of the project less efficient compared with other similar construction sites throughout the state. The consumption would also be temporary and localized. Operation of the of Temecula Winery would comply with all the energy efficiency requirements under Title 24 and all applicable city business and energy codes ordinances. Therefore, the construction and operation of the project would result in a less than significant impact for inefficient, wasteful, or unnecessary energy use, and no mitigation would be required.

5 GREENHOUSE GAS EMISSIONS

5.1 Significance Threshold

Riverside County has adopted a Climate Action Plan (CAP)⁶ to mitigate and avoid GHG emissions associated with community activities in unincorporated Riverside County. The 2019 update addresses emissions from building energy, land use and transportation, water consumption, and waste generation. The CAP states that state and local regulation would be sufficient to meet the County targets, therefore no additional CO₂e emissions reductions would be required.

The SCAQMD Greenhouse Gas Emissions (GHG) CEQA Significance Threshold Working Group has identified GHG emissions thresholds for land use projects in the SCAQMD Draft Guidance Document – Interim CEQA GHG Significance Threshold that could be used by lead agencies.⁷ The Guidance Document provides substantial evidence supporting the approaches to significance of GHG emissions that can be considered by the lead agency in adopting its own threshold. This includes a tiered approach to evaluate potential GHG impacts from various uses.

The County of Riverside utilizes the Tier 3: Numerical Screening Thresholds approach. Tier three consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are added to the project's operational emissions. If a project's emissions are below one of the following screening thresholds, then the project impact would be is less than significant:

- Option 1: All land use types: 3,000 MT CO₂e per year
- Option 2: Based on land use type: residential: 3,500 MT CO₂e per year; commercial: 1,400 MT CO₂e per year; or mixed use: 3,000 MT CO₂e per year

The County of Riverside utilizes option 1, and therefore the threshold for development projects is 3,000 MT CO₂e per year.

Executive Order S-3-05's year 2050 goal is the basis of SCAQMD' draft Tier 3 screening level thresholds. The objective of the Executive Order is to contribute to capping worldwide CO₂ concentrations at 450 ppm, stabilizing global climate change.

5.2 Project Emissions

The project's construction GHG emissions are shown in Table 14: Project Construction GHG Emissions, and the overall construction and net operational emissions are shown in Table 15: Project Net GHG Emissions. These emissions were calculated using the CalEEMod Model and are attached in Appendix A. The Construction emissions are amortized over 30 years as stated in the SCAQMD methodology for Tier 3 analysis.

⁶ County of Riverside Climate Action Plan November, 2019. Referenced at <https://planning.rctlma.org/CAP>

⁷ SCAQMD 2010. Minutes of the GHG CEQA Significance Threshold Stakeholder Working Group #15. Referenced at: [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf)

Table 14. Project Construction GHG Emissions

Activity	Annual GHG Emissions (MTCO _{2e})
2021	328
2022	209
Total Emissions	537
Total Emissions Amortized Over 30 Years	18

Table 15. Project Net GHG Emissions

Activity	Annual GHG Emissions (MTCO _{2e})
Project Operational Emissions	
Area	0
Energy	172
Mobil	1581
Waste	12
Water	64
Total Project Gross Operation Emissions	1,829
Project Construction Emissions	18
Total Emissions	1,847
Significance Threshold	3,000
Threshold Exceeded?	No

5.3 Conclusion

The proposed project's GHG emissions are below the SCAQMD Significance threshold of 3,000 MTCO_{2e} per year. Therefore, the project would have a less than significant impact related to GHG emissions and no mitigation is required.

APPENDIX A – CALEEMOD OUTPUT SHEETS

Temecula Winery - Riverside-South Coast County, Annual

Temecula Winery
Riverside-South Coast County, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	13.41	1000sqft	0.31	13,410.00	0
Hotel	10.00	Room	0.33	14,520.00	0
City Park	15.10	Acre	15.10	657,756.00	0
Parking Lot	129.00	Space	1.16	51,600.00	0
Other Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0
Other Non-Asphalt Surfaces	0.50	Acre	0.50	21,780.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	532.57	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Used SCE 2020-2029 CO2 Intensity Factor.

Land Use -

Construction Phase -

Off-road Equipment - Assumed 8hr work day.

Off-road Equipment -

Off-road Equipment - Assumed 8hr work day.

Trips and VMT - Based of SF of the actual building construction.

Vehicle Trips - Used Trip Generation from project TIA (EPD Solution, 2021)

Vehicle Emission Factors - Used EMFAC 2017 emission rates.

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	532.57
tblTripsAndVMT	VendorTripNumber	132.00	5.00
tblTripsAndVMT	WorkerTripNumber	337.00	12.00
tblTripsAndVMT	WorkerTripNumber	67.00	2.00

2.0 Emissions Summary

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2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2561	2.4877	2.0776	3.7400e-003	0.2382	0.1247	0.3630	0.1084	0.1164	0.2247	0.0000	325.5633	325.5633	0.0834	0.0000	327.6489
2022	0.2895	1.2940	1.3812	2.3900e-003	0.0129	0.0652	0.0781	3.4800e-003	0.0613	0.0647	0.0000	207.5974	207.5974	0.0486	0.0000	208.8117
Maximum	0.2895	2.4877	2.0776	3.7400e-003	0.2382	0.1247	0.3630	0.1084	0.1164	0.2247	0.0000	325.5633	325.5633	0.0834	0.0000	327.6489

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.2561	2.4877	2.0776	3.7400e-003	0.1037	0.1247	0.2285	0.0452	0.1164	0.1615	0.0000	325.5630	325.5630	0.0834	0.0000	327.6486
2022	0.2895	1.2940	1.3812	2.3900e-003	0.0129	0.0652	0.0781	3.4800e-003	0.0613	0.0647	0.0000	207.5972	207.5972	0.0486	0.0000	208.8114
Maximum	0.2895	2.4877	2.0776	3.7400e-003	0.1037	0.1247	0.2285	0.0452	0.1164	0.1615	0.0000	325.5630	325.5630	0.0834	0.0000	327.6486

	ROG	NOx	CO	SO2	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	53.55	0.00	30.49	56.50	0.00	21.83	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-22-2021	6-21-2021	1.2414	1.2414
2	6-22-2021	9-21-2021	0.7010	0.7010
3	9-22-2021	12-21-2021	0.6933	0.6933
4	12-22-2021	3-21-2022	0.6221	0.6221
5	3-22-2022	6-21-2022	0.6279	0.6279
6	6-22-2022	9-21-2022	0.4095	0.4095
		Highest	1.2414	1.2414

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	0.1294	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-003
Energy	7.0500e-003	0.0641	0.0538	3.8000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	170.6193	170.6193	6.8300e-003	2.4200e-003	171.5098
Mobile	0.3797	1.3623	4.7791	0.0167	1.5205	0.0144	1.5349	0.4069	0.0136	0.4205	0.0000	1,578.7957	1,578.7957	0.0890	0.0000	1,581.0199
Waste						0.0000	0.0000		0.0000	0.0000	4.7500	0.0000	4.7500	0.2807	0.0000	11.7679
Water						0.0000	0.0000		0.0000	0.0000	1.0643	58.9138	59.9781	0.1125	3.2400e-003	63.7581
Total	0.5162	1.4264	4.8351	0.0171	1.5205	0.0193	1.5398	0.4069	0.0184	0.4254	5.8143	1,808.3330	1,814.1473	0.4891	5.6600e-003	1,828.0602

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1294	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-003
Energy	7.0500e-003	0.0641	0.0538	3.8000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	170.6193	170.6193	6.8300e-003	2.4200e-003	171.5098
Mobile	0.3797	1.3623	4.7791	0.0167	1.5205	0.0144	1.5349	0.4069	0.0136	0.4205	0.0000	1,578.7957	1,578.7957	0.0890	0.0000	1,581.0199
Waste						0.0000	0.0000		0.0000	0.0000	4.7500	0.0000	4.7500	0.2807	0.0000	11.7679
Water						0.0000	0.0000		0.0000	0.0000	1.0643	58.9138	59.9781	0.1125	3.2400e-003	63.7581
Total	0.5162	1.4264	4.8351	0.0171	1.5205	0.0193	1.5398	0.4069	0.0184	0.4254	5.8143	1,808.3330	1,814.1473	0.4891	5.6600e-003	1,828.0602

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

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/22/2021	4/2/2021	5	10	
2	Grading	Grading	4/3/2021	5/14/2021	5	30	
3	Building Construction	Building Construction	5/15/2021	7/8/2022	5	300	
4	Paving	Paving	7/9/2022	8/5/2022	5	20	
5	Architectural Coating	Architectural Coating	8/6/2022	9/2/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 2.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 41,895; Non-Residential Outdoor: 13,965; Striped Parking Area: 7,016 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	12.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530
Total	0.0194	0.2025	0.1058	1.9000e-004	0.0903	0.0102	0.1006	0.0497	9.4000e-003	0.0591	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530

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3.2 Site Preparation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.6000e-004	2.8300e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8000	0.8000	2.0000e-005	0.0000	0.8004
Total	3.9000e-004	2.6000e-004	2.8300e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8000	0.8000	2.0000e-005	0.0000	0.8004

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0352	0.0000	0.0352	0.0194	0.0000	0.0194	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530
Total	0.0194	0.2025	0.1058	1.9000e-004	0.0352	0.0102	0.0455	0.0194	9.4000e-003	0.0288	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530

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3.2 Site Preparation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	2.6000e-004	2.8300e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8000	0.8000	2.0000e-005	0.0000	0.8004
Total	3.9000e-004	2.6000e-004	2.8300e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8000	0.8000	2.0000e-005	0.0000	0.8004

3.3 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					0.1301	0.0000	0.1301	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7425	81.7425	0.0264	0.0000	82.4034
Total	0.0629	0.6960	0.4632	9.3000e-004	0.1301	0.0298	0.1599	0.0540	0.0274	0.0814	0.0000	81.7425	81.7425	0.0264	0.0000	82.4034

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3.3 Grading - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	8.7000e-004	9.4400e-003	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.6665	2.6665	6.0000e-005	0.0000	2.6681
Total	1.2900e-003	8.7000e-004	9.4400e-003	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.6665	2.6665	6.0000e-005	0.0000	2.6681

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0507	0.0000	0.0507	0.0210	0.0000	0.0210	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7424	81.7424	0.0264	0.0000	82.4033
Total	0.0629	0.6960	0.4632	9.3000e-004	0.0507	0.0298	0.0805	0.0210	0.0274	0.0484	0.0000	81.7424	81.7424	0.0264	0.0000	82.4033

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3.3 Grading - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2900e-003	8.7000e-004	9.4400e-003	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.6665	2.6665	6.0000e-005	0.0000	2.6681
Total	1.2900e-003	8.7000e-004	9.4400e-003	3.0000e-005	3.3000e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	8.9000e-004	0.0000	2.6665	2.6665	6.0000e-005	0.0000	2.6681

3.4 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	0.1669	1.5468	1.4578	2.3800e-003		0.0846	0.0846		0.0794	0.0794	0.0000	204.7730	204.7730	0.0505	0.0000	206.0362
Total	0.1669	1.5468	1.4578	2.3800e-003		0.0846	0.0846		0.0794	0.0794	0.0000	204.7730	204.7730	0.0505	0.0000	206.0362

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3.4 Building Construction - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8000e-004	0.0385	7.4000e-003	1.1000e-004	2.6100e-003	7.0000e-005	2.6800e-003	7.5000e-004	7.0000e-005	8.2000e-004	0.0000	10.0639	10.0639	7.7000e-004	0.0000	10.0831
Worker	4.2400e-003	2.8600e-003	0.0312	1.0000e-004	0.0109	7.0000e-005	0.0110	2.8900e-003	6.0000e-005	2.9500e-003	0.0000	8.7996	8.7996	2.0000e-004	0.0000	8.8047
Total	5.2200e-003	0.0413	0.0386	2.1000e-004	0.0135	1.4000e-004	0.0136	3.6400e-003	1.3000e-004	3.7700e-003	0.0000	18.8635	18.8635	9.7000e-004	0.0000	18.8878

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1669	1.5468	1.4578	2.3800e-003		0.0846	0.0846		0.0794	0.0794	0.0000	204.7728	204.7728	0.0505	0.0000	206.0359
Total	0.1669	1.5468	1.4578	2.3800e-003		0.0846	0.0846		0.0794	0.0794	0.0000	204.7728	204.7728	0.0505	0.0000	206.0359

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3.4 Building Construction - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8000e-004	0.0385	7.4000e-003	1.1000e-004	2.6100e-003	7.0000e-005	2.6800e-003	7.5000e-004	7.0000e-005	8.2000e-004	0.0000	10.0639	10.0639	7.7000e-004	0.0000	10.0831
Worker	4.2400e-003	2.8600e-003	0.0312	1.0000e-004	0.0109	7.0000e-005	0.0110	2.8900e-003	6.0000e-005	2.9500e-003	0.0000	8.7996	8.7996	2.0000e-004	0.0000	8.8047
Total	5.2200e-003	0.0413	0.0386	2.1000e-004	0.0135	1.4000e-004	0.0136	3.6400e-003	1.3000e-004	3.7700e-003	0.0000	18.8635	18.8635	9.7000e-004	0.0000	18.8878

3.4 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	0.1225	1.1318	1.1771	1.9500e-003		0.0584	0.0584		0.0548	0.0548	0.0000	167.6094	167.6094	0.0411	0.0000	168.6368
Total	0.1225	1.1318	1.1771	1.9500e-003		0.0584	0.0584		0.0548	0.0548	0.0000	167.6094	167.6094	0.0411	0.0000	168.6368

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3.4 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5000e-004	0.0297	5.6400e-003	9.0000e-005	2.1300e-003	5.0000e-005	2.1800e-003	6.1000e-004	5.0000e-005	6.6000e-004	0.0000	8.1633	8.1633	6.0000e-004	0.0000	8.1781
Worker	3.2500e-003	2.1100e-003	0.0235	8.0000e-005	8.9000e-003	5.0000e-005	8.9500e-003	2.3600e-003	5.0000e-005	2.4100e-003	0.0000	6.9369	6.9369	1.5000e-004	0.0000	6.9407
Total	4.0000e-003	0.0318	0.0291	1.7000e-004	0.0110	1.0000e-004	0.0111	2.9700e-003	1.0000e-004	3.0700e-003	0.0000	15.1002	15.1002	7.5000e-004	0.0000	15.1188

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1225	1.1318	1.1771	1.9500e-003		0.0584	0.0584		0.0548	0.0548	0.0000	167.6092	167.6092	0.0411	0.0000	168.6366
Total	0.1225	1.1318	1.1771	1.9500e-003		0.0584	0.0584		0.0548	0.0548	0.0000	167.6092	167.6092	0.0411	0.0000	168.6366

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3.4 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5000e-004	0.0297	5.6400e-003	9.0000e-005	2.1300e-003	5.0000e-005	2.1800e-003	6.1000e-004	5.0000e-005	6.6000e-004	0.0000	8.1633	8.1633	6.0000e-004	0.0000	8.1781
Worker	3.2500e-003	2.1100e-003	0.0235	8.0000e-005	8.9000e-003	5.0000e-005	8.9500e-003	2.3600e-003	5.0000e-005	2.4100e-003	0.0000	6.9369	6.9369	1.5000e-004	0.0000	6.9407
Total	4.0000e-003	0.0318	0.0291	1.7000e-004	0.0110	1.0000e-004	0.0111	2.9700e-003	1.0000e-004	3.0700e-003	0.0000	15.1002	15.1002	7.5000e-004	0.0000	15.1188

3.5 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	2.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0139	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895

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3.5 Paving - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	3.9000e-004	4.3500e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2846	1.2846	3.0000e-005	0.0000	1.2853
Total	6.0000e-004	3.9000e-004	4.3500e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2846	1.2846	3.0000e-005	0.0000	1.2853

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	2.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0139	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895

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3.5 Paving - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	3.9000e-004	4.3500e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2846	1.2846	3.0000e-005	0.0000	1.2853
Total	6.0000e-004	3.9000e-004	4.3500e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2846	1.2846	3.0000e-005	0.0000	1.2853

3.6 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1457					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7300e-003	0.0188	0.0242	4.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003	0.0000	3.4043	3.4043	2.2000e-004	0.0000	3.4099
Total	0.1485	0.0188	0.0242	4.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003	0.0000	3.4043	3.4043	2.2000e-004	0.0000	3.4099

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3.6 Architectural Coating - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	5.8000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1713	0.1713	0.0000	0.0000	0.1714
Total	8.0000e-005	5.0000e-005	5.8000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1713	0.1713	0.0000	0.0000	0.1714

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1457					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7300e-003	0.0188	0.0242	4.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003	0.0000	3.4043	3.4043	2.2000e-004	0.0000	3.4099
Total	0.1485	0.0188	0.0242	4.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003	0.0000	3.4043	3.4043	2.2000e-004	0.0000	3.4099

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3.6 Architectural Coating - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	5.8000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1713	0.1713	0.0000	0.0000	0.1714
Total	8.0000e-005	5.0000e-005	5.8000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1713	0.1713	0.0000	0.0000	0.1714

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3797	1.3623	4.7791	0.0167	1.5205	0.0144	1.5349	0.4069	0.0136	0.4205	0.0000	1,578.7957	1,578.7957	0.0890	0.0000	1,581.0199
Unmitigated	0.3797	1.3623	4.7791	0.0167	1.5205	0.0144	1.5349	0.4069	0.0136	0.4205	0.0000	1,578.7957	1,578.7957	0.0890	0.0000	1,581.0199

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Light Industry	616.32	1,082.59	1082.59	3,758,560	3,758,560
Hotel	83.60	83.60	83.60	232,468	232,468
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	699.92	1,166.19	1,166.19	3,991,028	3,991,028

4.3 Trip Type Information

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	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	18.50	10.10	7.90	33.00	48.00	19.00	66	28	6
General Light Industry	18.50	10.10	7.90	59.00	28.00	13.00	92	5	3
Hotel	18.50	10.10	7.90	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Hotel	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
City Park	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Other Asphalt Surfaces	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Other Non-Asphalt Surfaces	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	100.8709	100.8709	5.4900e-003	1.1400e-003	101.3469
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	100.8709	100.8709	5.4900e-003	1.1400e-003	101.3469
NaturalGas Mitigated	7.0500e-003	0.0641	0.0538	3.8000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	69.7484	69.7484	1.3400e-003	1.2800e-003	70.1629
NaturalGas Unmitigated	7.0500e-003	0.0641	0.0538	3.8000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	69.7484	69.7484	1.3400e-003	1.2800e-003	70.1629

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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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	435691	2.3500e-003	0.0214	0.0179	1.3000e-004		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003	0.0000	23.2501	23.2501	4.5000e-004	4.3000e-004	23.3883
Hotel	871345	4.7000e-003	0.0427	0.0359	2.6000e-004		3.2500e-003	3.2500e-003		3.2500e-003	3.2500e-003	0.0000	46.4983	46.4983	8.9000e-004	8.5000e-004	46.7746
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		7.0500e-003	0.0641	0.0538	3.9000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	69.7484	69.7484	1.3400e-003	1.2800e-003	70.1629

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	435691	2.3500e-003	0.0214	0.0179	1.3000e-004		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003	0.0000	23.2501	23.2501	4.5000e-004	4.3000e-004	23.3883
Hotel	871345	4.7000e-003	0.0427	0.0359	2.6000e-004		3.2500e-003	3.2500e-003		3.2500e-003	3.2500e-003	0.0000	46.4983	46.4983	8.9000e-004	8.5000e-004	46.7746
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		7.0500e-003	0.0641	0.0538	3.9000e-004		4.8700e-003	4.8700e-003		4.8700e-003	4.8700e-003	0.0000	69.7484	69.7484	1.3400e-003	1.2800e-003	70.1629

Temecula Winery - Riverside-South Coast County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	136112	32.8804	1.7900e-003	3.7000e-004	33.0356
Hotel	263393	63.6277	3.4600e-003	7.2000e-004	63.9280
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	18060	4.3628	2.4000e-004	5.0000e-005	4.3833
Total		100.8709	5.4900e-003	1.1400e-003	101.3468

Temecula Winery - Riverside-South Coast County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	136112	32.8804	1.7900e-003	3.7000e-004	33.0356
Hotel	263393	63.6277	3.4600e-003	7.2000e-004	63.9280
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	18060	4.3628	2.4000e-004	5.0000e-005	4.3833
Total		100.8709	5.4900e-003	1.1400e-003	101.3468

6.0 Area Detail**6.1 Mitigation Measures Area**

Temecula Winery - Riverside-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1294	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-003
Unmitigated	0.1294	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-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	0.0146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-003
Total	0.1294	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-003

Temecula Winery - Riverside-South Coast County, Annual

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-003
Total	0.1294	2.0000e-005	2.1600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.1900e-003	4.1900e-003	1.0000e-005	0.0000	4.4700e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Temecula Winery - Riverside-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	59.9781	0.1125	3.2400e-003	63.7581
Unmitigated	59.9781	0.1125	3.2400e-003	63.7581

Temecula Winery - Riverside-South Coast County, Annual

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 17.9914	48.2859	2.6300e-003	5.4000e-004	48.5138
General Light Industry	3.10106 / 0	10.7382	0.1016	2.5000e-003	14.0214
Hotel	0.253668 / 0.0281853	0.9540	8.3100e-003	2.1000e-004	1.2230
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		59.9781	0.1125	3.2500e-003	63.7581

Temecula Winery - Riverside-South Coast County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 17.9914	48.2859	2.6300e-003	5.4000e-004	48.5138
General Light Industry	3.10106 / 0	10.7382	0.1016	2.5000e-003	14.0214
Hotel	0.253668 / 0.0281853	0.9540	8.3100e-003	2.1000e-004	1.2230
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		59.9781	0.1125	3.2500e-003	63.7581

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Temecula Winery - Riverside-South Coast County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.7500	0.2807	0.0000	11.7679
Unmitigated	4.7500	0.2807	0.0000	11.7679

Temecula Winery - Riverside-South Coast County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	1.3	0.2639	0.0156	0.0000	0.6538
General Light Industry	16.63	3.3757	0.1995	0.0000	8.3633
Hotel	5.47	1.1104	0.0656	0.0000	2.7509
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		4.7500	0.2807	0.0000	11.7679

Temecula Winery - Riverside-South Coast County, Annual

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	1.3	0.2639	0.0156	0.0000	0.6538
General Light Industry	16.63	3.3757	0.1995	0.0000	8.3633
Hotel	5.47	1.1104	0.0656	0.0000	2.7509
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		4.7500	0.2807	0.0000	11.7679

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

Temecula Winery - Riverside-South Coast County, Annual

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

Equipment Type	Number
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11.0 Vegetation

Temecula Winery - Riverside-South Coast County, Summer

Temecula Winery
Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	13.41	1000sqft	0.31	13,410.00	0
Hotel	10.00	Room	0.33	14,520.00	0
City Park	15.10	Acre	15.10	657,756.00	0
Parking Lot	129.00	Space	1.16	51,600.00	0
Other Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0
Other Non-Asphalt Surfaces	0.50	Acre	0.50	21,780.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	532.57	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Temecula Winery - Riverside-South Coast County, Summer

Project Characteristics - Used SCE 2020-2029 CO2 Intensity Factor.

Land Use -

Construction Phase -

Off-road Equipment - Assumed 8hr work day.

Off-road Equipment -

Off-road Equipment - Assumed 8hr work day.

Trips and VMT - Based of SF of the actual building construction.

Vehicle Trips - Used Trip Generation from project TIA (EPD Solution, 2021)

Vehicle Emission Factors - Used EMFAC 2017 emission rates.

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	532.57
tblTripsAndVMT	VendorTripNumber	132.00	5.00
tblTripsAndVMT	WorkerTripNumber	337.00	12.00
tblTripsAndVMT	WorkerTripNumber	67.00	2.00

2.0 Emissions Summary

Temecula Winery - Riverside-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2860	46.4539	31.6179	0.0642	18.2675	2.0457	20.3131	9.9840	1.8820	11.8660	0.0000	6,219.993 6	6,219.993 6	1.9479	0.0000	6,268.690 6
2022	14.8531	17.2328	17.9252	0.0313	0.1677	0.8660	1.0322	0.0448	0.8136	0.8584	0.0000	2,995.716 1	2,995.716 1	0.7174	0.0000	3,012.792 7
Maximum	14.8531	46.4539	31.6179	0.0642	18.2675	2.0457	20.3131	9.9840	1.8820	11.8660	0.0000	6,219.993 6	6,219.993 6	1.9479	0.0000	6,268.690 6

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2860	46.4539	31.6179	0.0642	7.2470	2.0457	9.2927	3.9263	1.8820	5.8083	0.0000	6,219.993 6	6,219.993 6	1.9479	0.0000	6,268.690 5
2022	14.8531	17.2328	17.9252	0.0313	0.1677	0.8660	1.0322	0.0448	0.8136	0.8584	0.0000	2,995.716 1	2,995.716 1	0.7174	0.0000	3,012.792 7
Maximum	14.8531	46.4539	31.6179	0.0642	7.2470	2.0457	9.2927	3.9263	1.8820	5.8083	0.0000	6,219.993 6	6,219.993 6	1.9479	0.0000	6,268.690 5

	ROG	NOx	CO	SO2	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	59.78	0.00	51.63	60.40	0.00	47.61	0.00	0.00	0.00	0.00	0.00	0.00

Temecula Winery - Riverside-South Coast County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7098	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394
Energy	0.0386	0.3511	0.2949	2.1100e-003		0.0267	0.0267		0.0267	0.0267		421.2848	421.2848	8.0700e-003	7.7200e-003	423.7883
Mobile	3.0377	9.9437	39.0243	0.1345	12.0473	0.1125	12.1598	3.2198	0.1057	3.3254		13,976.77 11	13,976.77 11	0.7572		13,995.70 16
Total	3.7861	10.2949	39.3364	0.1366	12.0473	0.1393	12.1865	3.2198	0.1324	3.3522		14,398.09 29	14,398.09 29	0.7654	7.7200e-003	14,419.52 93

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7098	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394
Energy	0.0386	0.3511	0.2949	2.1100e-003		0.0267	0.0267		0.0267	0.0267		421.2848	421.2848	8.0700e-003	7.7200e-003	423.7883
Mobile	3.0377	9.9437	39.0243	0.1345	12.0473	0.1125	12.1598	3.2198	0.1057	3.3254		13,976.77 11	13,976.77 11	0.7572		13,995.70 16
Total	3.7861	10.2949	39.3364	0.1366	12.0473	0.1393	12.1865	3.2198	0.1324	3.3522		14,398.09 29	14,398.09 29	0.7654	7.7200e-003	14,419.52 93

Temecula Winery - Riverside-South Coast County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/22/2021	4/2/2021	5	10	
2	Grading	Grading	4/3/2021	5/14/2021	5	30	
3	Building Construction	Building Construction	5/15/2021	7/8/2022	5	300	
4	Paving	Paving	7/9/2022	8/5/2022	5	20	
5	Architectural Coating	Architectural Coating	8/6/2022	9/2/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 2.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 41,895; Non-Residential Outdoor: 13,965; Striped Parking Area: 7,016 (Architectural Coating – sqft)

OffRoad Equipment

Temecula Winery - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	12.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Temecula Winery - Riverside-South Coast County, Summer

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Temecula Winery - Riverside-South Coast County, Summer

3.2 Site Preparation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0853	0.0486	0.6655	1.9200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		191.6552	191.6552	4.5700e-003		191.7694
Total	0.0853	0.0486	0.6655	1.9200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		191.6552	191.6552	4.5700e-003		191.7694

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715,4573
Total	3.8882	40.4971	21.1543	0.0380	7.0458	2.0445	9.0903	3.8730	1.8809	5.7539	0.0000	3,685.6569	3,685.6569	1.1920		3,715,4573

Temecula Winery - Riverside-South Coast County, Summer

3.2 Site Preparation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0853	0.0486	0.6655	1.9200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		191.6552	191.6552	4.5700e-003		191.7694
Total	0.0853	0.0486	0.6655	1.9200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		191.6552	191.6552	4.5700e-003		191.7694

3.3 Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230		6,007.0434	6,007.0434	1.9428		6,055.6134

Temecula Winery - Riverside-South Coast County, Summer

3.3 Grading - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0948	0.0540	0.7394	2.1400e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		212.9502	212.9502	5.0800e-003		213.0771
Total	0.0948	0.0540	0.7394	2.1400e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		212.9502	212.9502	5.0800e-003		213.0771

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	3.3826	1.9853	5.3679	1.4026	1.8265	3.2292	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

Temecula Winery - Riverside-South Coast County, Summer

3.3 Grading - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0948	0.0540	0.7394	2.1400e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		212.9502	212.9502	5.0800e-003		213.0771
Total	0.0948	0.0540	0.7394	2.1400e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		212.9502	212.9502	5.0800e-003		213.0771

3.4 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	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625		2,736.0438	2,736.0438	0.6751		2,752.9212
Total	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625		2,736.0438	2,736.0438	0.6751		2,752.9212

Temecula Winery - Riverside-South Coast County, Summer

3.4 Building Construction - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0117	0.4627	0.0826	1.3000e-003	0.0320	8.8000e-004	0.0329	9.2200e-003	8.4000e-004	0.0101		136.6255	136.6255	9.7700e-003		136.8699
Worker	0.0569	0.0324	0.4437	1.2800e-003	0.1341	7.9000e-004	0.1349	0.0356	7.3000e-004	0.0363		127.7701	127.7701	3.0500e-003		127.8463
Total	0.0686	0.4951	0.5262	2.5800e-003	0.1662	1.6700e-003	0.1678	0.0448	1.5700e-003	0.0464		264.3956	264.3956	0.0128		264.7161

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625	0.0000	2,736.0438	2,736.0438	0.6751		2,752.9212
Total	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625	0.0000	2,736.0438	2,736.0438	0.6751		2,752.9212

Temecula Winery - Riverside-South Coast County, Summer

3.4 Building Construction - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0117	0.4627	0.0826	1.3000e-003	0.0320	8.8000e-004	0.0329	9.2200e-003	8.4000e-004	0.0101		136.6255	136.6255	9.7700e-003		136.8699
Worker	0.0569	0.0324	0.4437	1.2800e-003	0.1341	7.9000e-004	0.1349	0.0356	7.3000e-004	0.0363		127.7701	127.7701	3.0500e-003		127.8463
Total	0.0686	0.4951	0.5262	2.5800e-003	0.1662	1.6700e-003	0.1678	0.0448	1.5700e-003	0.0464		264.3956	264.3956	0.0128		264.7161

3.4 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288

Temecula Winery - Riverside-South Coast County, Summer

3.4 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0109	0.4365	0.0768	1.2800e-003	0.0320	7.4000e-004	0.0328	9.2200e-003	7.1000e-004	9.9300e-003		135.4626	135.4626	9.2600e-003		135.6940
Worker	0.0532	0.0292	0.4092	1.2400e-003	0.1341	7.7000e-004	0.1349	0.0356	7.1000e-004	0.0363		123.1015	123.1015	2.7400e-003		123.1699
Total	0.0641	0.4657	0.4860	2.5200e-003	0.1662	1.5100e-003	0.1677	0.0448	1.4200e-003	0.0462		258.5641	258.5641	0.0120		258.8640

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288

Temecula Winery - Riverside-South Coast County, Summer

3.4 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0109	0.4365	0.0768	1.2800e-003	0.0320	7.4000e-004	0.0328	9.2200e-003	7.1000e-004	9.9300e-003		135.4626	135.4626	9.2600e-003		135.6940
Worker	0.0532	0.0292	0.4092	1.2400e-003	0.1341	7.7000e-004	0.1349	0.0356	7.1000e-004	0.0363		123.1015	123.1015	2.7400e-003		123.1699
Total	0.0641	0.4657	0.4860	2.5200e-003	0.1662	1.5100e-003	0.1677	0.0448	1.4200e-003	0.0462		258.5641	258.5641	0.0120		258.8640

3.5 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.2830					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3858	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

Temecula Winery - Riverside-South Coast County, Summer

3.5 Paving - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0665	0.0365	0.5115	1.5400e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		153.8769	153.8769	3.4200e-003		153.9624
Total	0.0665	0.0365	0.5115	1.5400e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		153.8769	153.8769	3.4200e-003		153.9624

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.2830					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3858	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Temecula Winery - Riverside-South Coast County, Summer

3.5 Paving - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0665	0.0365	0.5115	1.5400e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		153.8769	153.8769	3.4200e-003		153.9624
Total	0.0665	0.0365	0.5115	1.5400e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		153.8769	153.8769	3.4200e-003		153.9624

3.6 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	14.5715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	14.8442	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749

Temecula Winery - Riverside-South Coast County, Summer

3.6 Architectural Coating - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.8700e-003	4.8600e-003	0.0682	2.1000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		20.5169	20.5169	4.6000e-004		20.5283
Total	8.8700e-003	4.8600e-003	0.0682	2.1000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		20.5169	20.5169	4.6000e-004		20.5283

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	14.5715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	14.8442	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749

Temecula Winery - Riverside-South Coast County, Summer

3.6 Architectural Coating - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.8700e-003	4.8600e-003	0.0682	2.1000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		20.5169	20.5169	4.6000e-004		20.5283
Total	8.8700e-003	4.8600e-003	0.0682	2.1000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		20.5169	20.5169	4.6000e-004		20.5283

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Temecula Winery - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.0377	9.9437	39.0243	0.1345	12.0473	0.1125	12.1598	3.2198	0.1057	3.3254		13,976.77 11	13,976.77 11	0.7572		13,995.70 16
Unmitigated	3.0377	9.9437	39.0243	0.1345	12.0473	0.1125	12.1598	3.2198	0.1057	3.3254		13,976.77 11	13,976.77 11	0.7572		13,995.70 16

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Light Industry	616.32	1,082.59	1082.59	3,758,560	3,758,560
Hotel	83.60	83.60	83.60	232,468	232,468
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	699.92	1,166.19	1,166.19	3,991,028	3,991,028

4.3 Trip Type Information

Temecula Winery - Riverside-South Coast County, Summer

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	18.50	10.10	7.90	33.00	48.00	19.00	66	28	6
General Light Industry	18.50	10.10	7.90	59.00	28.00	13.00	92	5	3
Hotel	18.50	10.10	7.90	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Hotel	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
City Park	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Other Asphalt Surfaces	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Other Non-Asphalt Surfaces	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Temecula Winery - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0386	0.3511	0.2949	2.1100e-003		0.0267	0.0267		0.0267	0.0267		421.2848	421.2848	8.0700e-003	7.7200e-003	423.7883
NaturalGas Unmitigated	0.0386	0.3511	0.2949	2.1100e-003		0.0267	0.0267		0.0267	0.0267		421.2848	421.2848	8.0700e-003	7.7200e-003	423.7883

Temecula Winery - Riverside-South Coast County, Summer

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1193.67	0.0129	0.1170	0.0983	7.0000e-004		8.8900e-003	8.8900e-003		8.8900e-003	8.8900e-003		140.4322	140.4322	2.6900e-003	2.5700e-003	141.2667
Hotel	2387.25	0.0257	0.2340	0.1966	1.4000e-003		0.0178	0.0178		0.0178	0.0178		280.8526	280.8526	5.3800e-003	5.1500e-003	282.5216
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0386	0.3511	0.2949	2.1000e-003		0.0267	0.0267		0.0267	0.0267		421.2848	421.2848	8.0700e-003	7.7200e-003	423.7883

Temecula Winery - Riverside-South Coast County, Summer

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.19367	0.0129	0.1170	0.0983	7.0000e-004		8.8900e-003	8.8900e-003		8.8900e-003	8.8900e-003		140.4322	140.4322	2.6900e-003	2.5700e-003	141.2667
Hotel	2.38725	0.0257	0.2340	0.1966	1.4000e-003		0.0178	0.0178		0.0178	0.0178		280.8526	280.8526	5.3800e-003	5.1500e-003	282.5216
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0386	0.3511	0.2949	2.1000e-003		0.0267	0.0267		0.0267	0.0267		421.2848	421.2848	8.0700e-003	7.7200e-003	423.7883

6.0 Area Detail**6.1 Mitigation Measures Area**

Temecula Winery - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7098	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394
Unmitigated	0.7098	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6000e-003	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394
Total	0.7098	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394

Temecula Winery - Riverside-South Coast County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6000e-003	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394
Total	0.7098	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Temecula Winery - Riverside-South Coast County, Summer

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

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

Equipment Type	Number
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11.0 Vegetation

Temecula Winery - Riverside-South Coast County, Winter

Temecula Winery
Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	13.41	1000sqft	0.31	13,410.00	0
Hotel	10.00	Room	0.33	14,520.00	0
City Park	15.10	Acre	15.10	657,756.00	0
Parking Lot	129.00	Space	1.16	51,600.00	0
Other Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0
Other Non-Asphalt Surfaces	0.50	Acre	0.50	21,780.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	532.57	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Temecula Winery - Riverside-South Coast County, Winter

Project Characteristics - Used SCE 2020-2029 CO2 Intensity Factor.

Land Use -

Construction Phase -

Off-road Equipment - Assumed 8hr work day.

Off-road Equipment -

Off-road Equipment - Assumed 8hr work day.

Trips and VMT - Based of SF of the actual building construction.

Vehicle Trips - Used Trip Generation from project TIA (EPD Solution, 2021)

Vehicle Emission Factors - Used EMFAC 2017 emission rates.

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	532.57
tblTripsAndVMT	VendorTripNumber	132.00	5.00
tblTripsAndVMT	WorkerTripNumber	337.00	12.00
tblTripsAndVMT	WorkerTripNumber	67.00	2.00

2.0 Emissions Summary

Temecula Winery - Riverside-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2842	46.4557	31.4753	0.0639	18.2675	2.0457	20.3131	9.9840	1.8820	11.8660	0.0000	6,198.082 2	6,198.082 2	1.9472	0.0000	6,246.762 5
2022	14.8530	17.2294	17.8601	0.0312	0.1677	0.8661	1.0322	0.0448	0.8137	0.8585	0.0000	2,977.931 2	2,977.931 2	0.7170	0.0000	2,995.025 7
Maximum	14.8530	46.4557	31.4753	0.0639	18.2675	2.0457	20.3131	9.9840	1.8820	11.8660	0.0000	6,198.082 2	6,198.082 2	1.9472	0.0000	6,246.762 5

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2842	46.4557	31.4753	0.0639	7.2470	2.0457	9.2927	3.9263	1.8820	5.8083	0.0000	6,198.082 1	6,198.082 1	1.9472	0.0000	6,246.762 5
2022	14.8530	17.2294	17.8601	0.0312	0.1677	0.8661	1.0322	0.0448	0.8137	0.8585	0.0000	2,977.931 2	2,977.931 2	0.7170	0.0000	2,995.025 7
Maximum	14.8530	46.4557	31.4753	0.0639	7.2470	2.0457	9.2927	3.9263	1.8820	5.8083	0.0000	6,198.082 1	6,198.082 1	1.9472	0.0000	6,246.762 5

	ROG	NOx	CO	SO2	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	59.78	0.00	51.63	60.40	0.00	47.61	0.00	0.00	0.00	0.00	0.00	0.00

Temecula Winery - Riverside-South Coast County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7098	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394
Energy	0.0386	0.3511	0.2949	2.1100e-003		0.0267	0.0267		0.0267	0.0267		421.2848	421.2848	8.0700e-003	7.7200e-003	423.7883
Mobile	3.0451	10.5164	36.5124	0.1292	12.0473	0.1127	12.1600	3.2198	0.1058	3.3256		13,445.7111	13,445.7111	0.7638		13,464.8062
Total	3.7935	10.8677	36.8246	0.1314	12.0473	0.1394	12.1867	3.2198	0.1326	3.3523		13,867.0329	13,867.0329	0.7720	7.7200e-003	13,888.6339

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7098	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394
Energy	0.0386	0.3511	0.2949	2.1100e-003		0.0267	0.0267		0.0267	0.0267		421.2848	421.2848	8.0700e-003	7.7200e-003	423.7883
Mobile	3.0451	10.5164	36.5124	0.1292	12.0473	0.1127	12.1600	3.2198	0.1058	3.3256		13,445.7111	13,445.7111	0.7638		13,464.8062
Total	3.7935	10.8677	36.8246	0.1314	12.0473	0.1394	12.1867	3.2198	0.1326	3.3523		13,867.0329	13,867.0329	0.7720	7.7200e-003	13,888.6339

Temecula Winery - Riverside-South Coast County, Winter

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/22/2021	4/2/2021	5	10	
2	Grading	Grading	4/3/2021	5/14/2021	5	30	
3	Building Construction	Building Construction	5/15/2021	7/8/2022	5	300	
4	Paving	Paving	7/9/2022	8/5/2022	5	20	
5	Architectural Coating	Architectural Coating	8/6/2022	9/2/2022	5	20	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 75****Acres of Paving: 2.66****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 41,895; Non-Residential Outdoor: 13,965; Striped Parking Area: 7,016 (Architectural Coating – sqft)****OffRoad Equipment**

Temecula Winery - Riverside-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	12.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Temecula Winery - Riverside-South Coast County, Winter

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Temecula Winery - Riverside-South Coast County, Winter

3.2 Site Preparation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0838	0.0503	0.5372	1.7200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		171.9348	171.9348	3.9700e-003		172.0342
Total	0.0838	0.0503	0.5372	1.7200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		171.9348	171.9348	3.9700e-003		172.0342

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715,4573
Total	3.8882	40.4971	21.1543	0.0380	7.0458	2.0445	9.0903	3.8730	1.8809	5.7539	0.0000	3,685.6569	3,685.6569	1.1920		3,715,4573

Temecula Winery - Riverside-South Coast County, Winter

3.2 Site Preparation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0838	0.0503	0.5372	1.7200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		171.9348	171.9348	3.9700e-003		172.0342
Total	0.0838	0.0503	0.5372	1.7200e-003	0.2012	1.1900e-003	0.2024	0.0534	1.0900e-003	0.0545		171.9348	171.9348	3.9700e-003		172.0342

3.3 Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	8.6733	1.9853	10.6587	3.5965	1.8265	5.4230		6,007.0434	6,007.0434	1.9428		6,055.6134

Temecula Winery - Riverside-South Coast County, Winter

3.3 Grading - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0931	0.0559	0.5969	1.9200e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		191.0387	191.0387	4.4100e-003		191.1491
Total	0.0931	0.0559	0.5969	1.9200e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		191.0387	191.0387	4.4100e-003		191.1491

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	3.3826	1.9853	5.3679	1.4026	1.8265	3.2292	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

Temecula Winery - Riverside-South Coast County, Winter

3.3 Grading - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0931	0.0559	0.5969	1.9200e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		191.0387	191.0387	4.4100e-003		191.1491
Total	0.0931	0.0559	0.5969	1.9200e-003	0.2236	1.3200e-003	0.2249	0.0593	1.2100e-003	0.0605		191.0387	191.0387	4.4100e-003		191.1491

3.4 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	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625		2,736.0438	2,736.0438	0.6751		2,752.9212
Total	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625		2,736.0438	2,736.0438	0.6751		2,752.9212

Temecula Winery - Riverside-South Coast County, Winter

3.4 Building Construction - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0124	0.4587	0.0977	1.2500e-003	0.0320	9.1000e-004	0.0329	9.2200e-003	8.7000e-004	0.0101		131.4866	131.4866	0.0109		131.7589
Worker	0.0558	0.0335	0.3581	1.1500e-003	0.1341	7.9000e-004	0.1349	0.0356	7.3000e-004	0.0363		114.6232	114.6232	2.6500e-003		114.6894
Total	0.0682	0.4922	0.4558	2.4000e-003	0.1662	1.7000e-003	0.1678	0.0448	1.6000e-003	0.0464		246.1098	246.1098	0.0135		246.4483

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625	0.0000	2,736.0438	2,736.0438	0.6751		2,752.9212
Total	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625	0.0000	2,736.0438	2,736.0438	0.6751		2,752.9212

Temecula Winery - Riverside-South Coast County, Winter

3.4 Building Construction - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0124	0.4587	0.0977	1.2500e-003	0.0320	9.1000e-004	0.0329	9.2200e-003	8.7000e-004	0.0101		131.4866	131.4866	0.0109		131.7589
Worker	0.0558	0.0335	0.3581	1.1500e-003	0.1341	7.9000e-004	0.1349	0.0356	7.3000e-004	0.0363		114.6232	114.6232	2.6500e-003		114.6894
Total	0.0682	0.4922	0.4558	2.4000e-003	0.1662	1.7000e-003	0.1678	0.0448	1.6000e-003	0.0464		246.1098	246.1098	0.0135		246.4483

3.4 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288

Temecula Winery - Riverside-South Coast County, Winter

3.4 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0116	0.4322	0.0912	1.2400e-003	0.0320	7.6000e-004	0.0328	9.2200e-003	7.3000e-004	9.9500e-003		130.3386	130.3386	0.0103		130.5967
Worker	0.0524	0.0302	0.3298	1.1100e-003	0.1341	7.7000e-004	0.1349	0.0356	7.1000e-004	0.0363		110.4407	110.4407	2.3800e-003		110.5002
Total	0.0640	0.4623	0.4210	2.3500e-003	0.1662	1.5300e-003	0.1677	0.0448	1.4400e-003	0.0462		240.7792	240.7792	0.0127		241.0969

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288

Temecula Winery - Riverside-South Coast County, Winter

3.4 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0116	0.4322	0.0912	1.2400e-003	0.0320	7.6000e-004	0.0328	9.2200e-003	7.3000e-004	9.9500e-003		130.3386	130.3386	0.0103		130.5967
Worker	0.0524	0.0302	0.3298	1.1100e-003	0.1341	7.7000e-004	0.1349	0.0356	7.1000e-004	0.0363		110.4407	110.4407	2.3800e-003		110.5002
Total	0.0640	0.4623	0.4210	2.3500e-003	0.1662	1.5300e-003	0.1677	0.0448	1.4400e-003	0.0462		240.7792	240.7792	0.0127		241.0969

3.5 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.2830					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3858	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

Temecula Winery - Riverside-South Coast County, Winter

3.5 Paving - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0655	0.0377	0.4123	1.3800e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		138.0508	138.0508	2.9800e-003		138.1253
Total	0.0655	0.0377	0.4123	1.3800e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		138.0508	138.0508	2.9800e-003		138.1253

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.2830					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3858	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Temecula Winery - Riverside-South Coast County, Winter

3.5 Paving - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0655	0.0377	0.4123	1.3800e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		138.0508	138.0508	2.9800e-003		138.1253
Total	0.0655	0.0377	0.4123	1.3800e-003	0.1677	9.6000e-004	0.1686	0.0445	8.9000e-004	0.0454		138.0508	138.0508	2.9800e-003		138.1253

3.6 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	14.5715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	14.8442	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749

Temecula Winery - Riverside-South Coast County, Winter

3.6 Architectural Coating - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.7300e-003	5.0300e-003	0.0550	1.8000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		18.4068	18.4068	4.0000e-004		18.4167
Total	8.7300e-003	5.0300e-003	0.0550	1.8000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		18.4068	18.4068	4.0000e-004		18.4167

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	14.5715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	14.8442	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749

Temecula Winery - Riverside-South Coast County, Winter

3.6 Architectural Coating - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.7300e-003	5.0300e-003	0.0550	1.8000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		18.4068	18.4068	4.0000e-004		18.4167
Total	8.7300e-003	5.0300e-003	0.0550	1.8000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		18.4068	18.4068	4.0000e-004		18.4167

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Temecula Winery - Riverside-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.0451	10.5164	36.5124	0.1292	12.0473	0.1127	12.1600	3.2198	0.1058	3.3256		13,445.71 11	13,445.71 11	0.7638		13,464.80 62
Unmitigated	3.0451	10.5164	36.5124	0.1292	12.0473	0.1127	12.1600	3.2198	0.1058	3.3256		13,445.71 11	13,445.71 11	0.7638		13,464.80 62

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Light Industry	616.32	1,082.59	1082.59	3,758,560	3,758,560
Hotel	83.60	83.60	83.60	232,468	232,468
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	699.92	1,166.19	1,166.19	3,991,028	3,991,028

4.3 Trip Type Information

Temecula Winery - Riverside-South Coast County, Winter

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	18.50	10.10	7.90	33.00	48.00	19.00	66	28	6
General Light Industry	18.50	10.10	7.90	59.00	28.00	13.00	92	5	3
Hotel	18.50	10.10	7.90	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0
Parking Lot	18.50	10.10	7.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Hotel	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
City Park	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Other Asphalt Surfaces	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Other Non-Asphalt Surfaces	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884
Parking Lot	0.555935	0.035798	0.180985	0.113549	0.015175	0.004939	0.018497	0.064736	0.001364	0.001528	0.005807	0.000803	0.000884

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Temecula Winery - Riverside-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0386	0.3511	0.2949	2.1100e-003		0.0267	0.0267		0.0267	0.0267		421.2848	421.2848	8.0700e-003	7.7200e-003	423.7883
NaturalGas Unmitigated	0.0386	0.3511	0.2949	2.1100e-003		0.0267	0.0267		0.0267	0.0267		421.2848	421.2848	8.0700e-003	7.7200e-003	423.7883

Temecula Winery - Riverside-South Coast County, Winter

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1193.67	0.0129	0.1170	0.0983	7.0000e-004		8.8900e-003	8.8900e-003		8.8900e-003	8.8900e-003		140.4322	140.4322	2.6900e-003	2.5700e-003	141.2667
Hotel	2387.25	0.0257	0.2340	0.1966	1.4000e-003		0.0178	0.0178		0.0178	0.0178		280.8526	280.8526	5.3800e-003	5.1500e-003	282.5216
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0386	0.3511	0.2949	2.1000e-003		0.0267	0.0267		0.0267	0.0267		421.2848	421.2848	8.0700e-003	7.7200e-003	423.7883

Temecula Winery - Riverside-South Coast County, Winter

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.19367	0.0129	0.1170	0.0983	7.0000e-004		8.8900e-003	8.8900e-003		8.8900e-003	8.8900e-003		140.4322	140.4322	2.6900e-003	2.5700e-003	141.2667
Hotel	2.38725	0.0257	0.2340	0.1966	1.4000e-003		0.0178	0.0178		0.0178	0.0178		280.8526	280.8526	5.3800e-003	5.1500e-003	282.5216
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0386	0.3511	0.2949	2.1000e-003		0.0267	0.0267		0.0267	0.0267		421.2848	421.2848	8.0700e-003	7.7200e-003	423.7883

6.0 Area Detail**6.1 Mitigation Measures Area**

Temecula Winery - Riverside-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7098	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394
Unmitigated	0.7098	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6000e-003	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394
Total	0.7098	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394

Temecula Winery - Riverside-South Coast County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6000e-003	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394
Total	0.7098	1.6000e-004	0.0173	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0370	0.0370	1.0000e-004		0.0394

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Temecula Winery - Riverside-South Coast County, Winter

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

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

Equipment Type	Number
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11.0 Vegetation

APPENDIX B – FUEL CALCULATIONS

OFFROAD2017 (v1.0.1) Emissions Inventory

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2021

Scenario: All Adopted Rules - Exhaust

Vehicle Classification: OFFROAD2017 Equipment Types

Units: Emissions: tons/day, Fuel Consumption: gallons/year, Activity: hours/year, HP-Hours: HP-hours/year

Region	Calendar Year	VehClass	MdYr	HP_Bin	Fuel	Fuel Consumption	Horsepower Hours	Fuel Rate
Riverside (SC)	2021	ConstMin - Rubber Tired Dozers	Aggregated	Aggregated	Diesel	345680.3599	16793684.3	0.020584
Riverside (SC)	2021	ConstMin - Tractors/Loaders/Backhoes	Aggregated	Aggregated	Diesel	4332673.241	226434569.5	0.019134
Riverside (SC)	2021	ConstMin - Excavators	Aggregated	Aggregated	Diesel	3116291.435	156893000.9	0.019863
Riverside (SC)	2021	ConstMin - Graders	Aggregated	Aggregated	Diesel	1171751.637	55382209.57	0.021158
Riverside (SC)	2021	ConstMin - Scrapers	Aggregated	Aggregated	Diesel	3097476.469	123994439.1	0.024981
Riverside (SC)	2021	ConstMin - Cranes	Aggregated	Aggregated	Diesel	701145.9725	47087946.34	0.014890
Riverside (SC)	2021	Industrial - Forklifts	Aggregated	Aggregated	Diesel	312291.8004	29898025.36	0.010445
Riverside (SC)	2021	OFF - Light Commercial - Generator Sets	Aggregated	Aggregated	Diesel	136323.85	3220022.7	0.042336
Riverside (SC)	2021	OFF - Light Commercial - Welders	Aggregated	Aggregated	Diesel	151391.05	5861830.65	0.025827
Riverside (SC)	2021	ConstMin - Pavers	Aggregated	Aggregated	Diesel	207799.1954	9656604.087	0.021519
Riverside (SC)	2021	ConstMin - Paving Equipment	Aggregated	Aggregated	Diesel	120962.7464	6546988.336	0.018476
Riverside (SC)	2021	ConstMin - Rollers	Aggregated	Aggregated	Diesel	539231.1012	27177023.51	0.019841
Riverside (SC)	2021	OFF - Light Commercial - Air Compressors	Aggregated	Aggregated	Diesel	29240.15	1059441.7	0.027600

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2021

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	Fuel Consumption	Fuel Rate
Riverside (SC)	2021	HHD	Aggregated	Aggregated	DSL	1897939.939	272.9190782	6.95
Riverside (SC)	2021	MHDT	Aggregated	Aggregated	DSL	732039.4237	67.89708744	10.78
							50/50 Split	8.87

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2021

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	Fuel Consumption	Fuel Rate
Riverside (SC)	2021	LDA	Aggregated	Aggregated	GAS	23296504.67	743.7333054	31.32
Riverside (SC)	2021	LDT1	Aggregated	Aggregated	GAS	2219909.251	83.25302578	26.66
Riverside (SC)	2021	LDT2	Aggregated	Aggregated	GAS	7067860.432	283.8610373	24.90
							50/25/25 Split	28.55