

CalEEMod Emission Summary

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DATE: March 3, 2022

SUBJECT: DRAFT Summary of CalEEMod Model Runs and Output for the No Worries RV and Boat Storage Project, Riverside County, California

SECTION 1: PROJECT INFORMATION

1.1 - Project Name

No Worries RV and Boat Storage Project (Project)

1.2 - Project Location

The Project site is located within the western portion of Riverside County (County) near the City of Menifee, comprising two parcels at the northeast corner of Haddock Street and Winchester Road. Regional access to the Project site is provided by Domenigoni Parkway at the Winchester Road exit. Local access to the site is provided from Winchester Road, which is a major highway, Willard Street, and Haddock Street. The Project site comprises two parcels and a vacated right-of-way encompassing approximately 3.53 acres. These parcels are identified as Riverside County Assessor's Parcel Numbers 462-182-018, and 462-185-006. The Project site is vacant and undeveloped with sparse vegetation and multiple ornamental trees.

1.3 - Project Description

The Project applicant is requesting approval from the County to construct an approximately 222 stall recreational vehicle (RV) and boat storage facility with associated structures, ornamental landscaping, and associated infrastructure. The proposed recreational vehicle (RV) and boat storage facility would include a 1,200 square foot (SF) prefabricated modular building adjacent to the facility entrance on Willard Street. The building would be utilized for office space, RV supply sales, computer room, security room, washing facilities, and storage. The Project would also include constructing a 100 square foot storage space with masonry walls and metal trussed roof, and a propane filling area near the site entrance. The Project would include thirty-four 40-foot/45-foot by 11-foot stalls, eighty-nine 35-foot by 10.5-foot stalls, seventy-nine 30-foot by 9-foot stalls, and eight-teen 20-foot by 9-foot stalls for a total of 220 storage stalls.

The Project would pave 32 feet of Winchester Road and provide a 5-foot right-of-way dedication along the western side of Winchester Road. The Project includes half-width improvements on Willard Street and Haddock Street. Roadway improvements would be provided to a width of 35-feet and length of 333-feet on Willard Street, a width of 55-feet and length of 504 linear feet on Winchester Road, and a width of 33-feet and length of 350 linear feet on Haddock Street.

The Project would also construct 5-foot-wide sidewalks on Haddock Street and Willard Street and a 5-foot-wide meandering sidewalk on Winchester Road and would install onsite water lines that would connect to the existing water lines in Willard Street. The Project would construct a septic system on the

northwestern corner of the Project site. Finally, two proposed water infiltration/detention basins would be located along the eastern boundary of the Project site. The proposed basin would provide retention and infiltration of the proposed Project's stormwater drainage. Figure 1 provides the site plan for the Project.

1.4 - Purpose of the Report

The purpose of this report is to summarize the results of the Project construction and operational criteria pollutant and greenhouse gas (GHG) emissions and energy usage estimates using the California Emissions Estimator Model (CalEEMod Version 2020.4.0) land use emission model for use in preparing CEQA regulatory documentation. The estimated Project emissions use were compared to the recommended air quality and GHG numeric significance thresholds recommended by the South Coast Air Quality Management District (SCAQMD) and the County of Riverside.

1.5 - Conclusions

- The Project construction and operation would not exceed any project-level criteria pollutant regional or localized emission significance threshold recommended by the SCAQMD. Therefore, the Project would result in a less than significant project-level impact and no mitigation is required.
- The Project construction and operation would not result in a cumulatively significant impact on the region's air quality. Therefore, the Project would result in a less than significant cumulative impact and no mitigation is required.
- The Project construction and operation would not exceed the greenhouse gas significance threshold adopted for this Project. Therefore, the Project would result in a less than project-level and cumulative significant impact and no mitigation is required.
- The Project construction and operation would not result in the wasteful, inefficient, and unnecessary consumption of energy, especially fossil fuels such as coal, natural gas, and petroleum, associated with the Project design, location, the use of electricity and natural gas, and the use of fuel by vehicles anticipated to travel to and from the Project. Therefore, the Project would result in a less than significant impact and no mitigation is required.

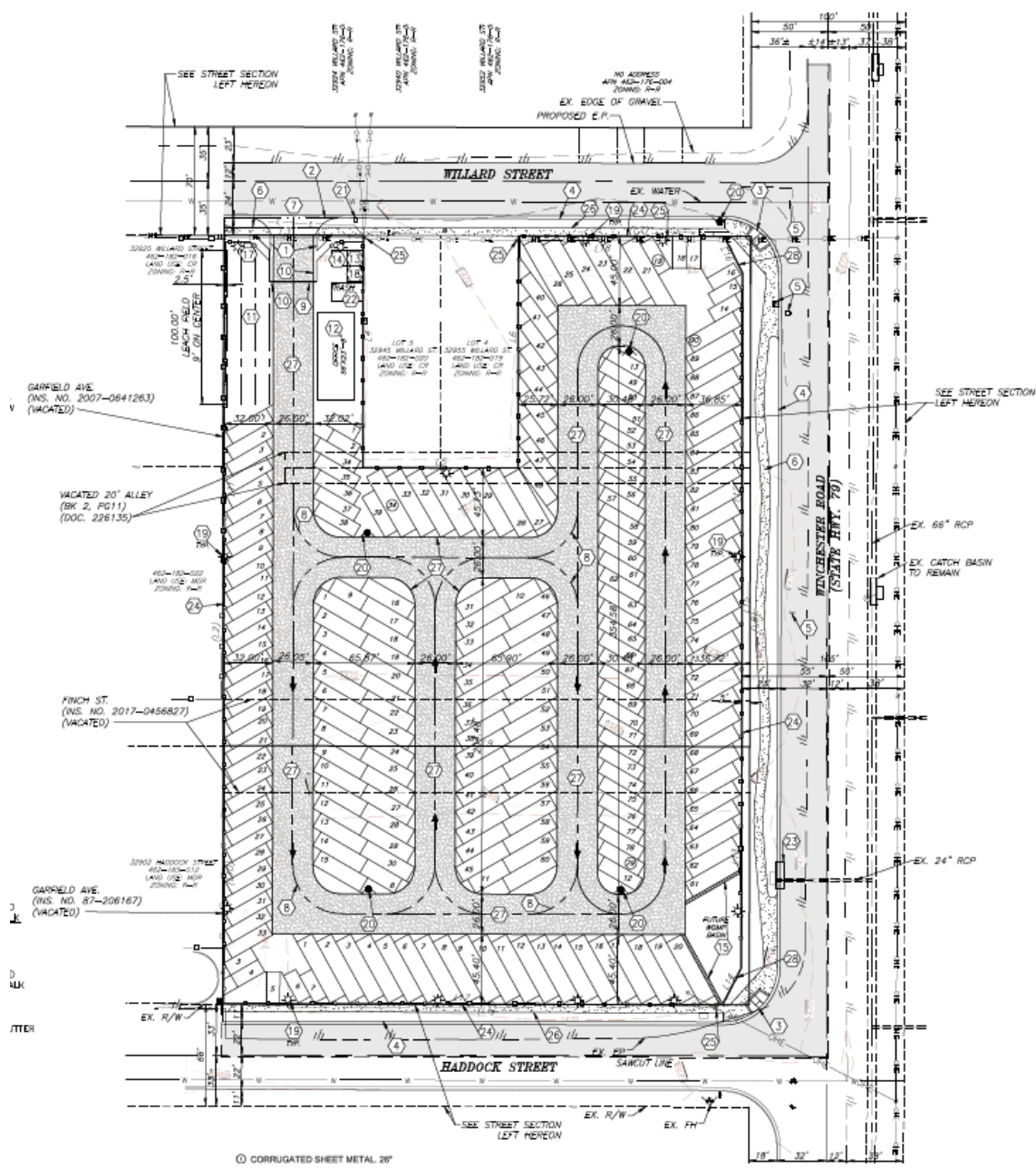


Figure 1
Site Plan

MARCH 2022

NO WORRIES RV AND BOAT STORAGE PROJECT
RIVERSIDE COUNTY, CALIFORNIA
SUMMARY OF CALEEMOD MODEL RUNS AND OUTPUT

SECTION 2: CALEEMOD EMISSION ESTIMATES – CRITERIA POLLUTANTS

This section quantifies the Project construction and operational criteria pollutant emissions¹ for the Project design and compares the emissions to the regional and local emission significance thresholds recommended by the SCAQMD.

2.1 - Significance Thresholds-Criteria Pollutants

The County has not adopted its own set of criteria pollutant significance thresholds. Therefore, the respective significance thresholds recommended by the SCAQMD were applied to the Project in assessing the significance of the Project's emissions.

2.1.1 Regional Emission Significance Thresholds

An individual project's incremental regional air quality impacts are generally very small and difficult to measure. However, the SCAQMD's regional significance thresholds define levels of maximum daily emissions whose exceedance by a project's construction or operation may add to the overall emission burden within the SCAQMD and impact the attainment and maintenance of ambient air quality standards.

The regional thresholds apply to the criteria pollutant emissions of carbon monoxide (CO), oxides of nitrogen (NO_x), oxides of sulfur (SO_x), particulate matter (PM₁₀ and PM_{2.5}), and reactive organic gases (ROG). The quantification of regional emissions includes those project emissions generated from both onsite emission sources (i.e., offroad construction equipment, fugitive dust, area sources) and offsite emission sources (vehicle travel to and away from the Project). Table 1 shows the SCAQMD's regional significance thresholds.

Table 1: SCAQMD Regional Emission Significance Thresholds

Air Pollutant	Maximum Daily Emissions (pounds/day)	
	Construction	Operation
Carbon Monoxide	550	550
Oxides of Nitrogen	100	55
Sulfur Oxides	150	150
PM ₁₀	150	150
PM _{2.5}	55	55
Reactive Organic Gases	75	55

¹Criteria pollutants are the only air pollutants with national air quality standards that define allowable concentrations of these substances in the ambient air. Criteria pollutants include carbon monoxide (CO), oxides of nitrogen (NO_x), sulfur dioxide (SO_x), and particulate matter (PM₁₀ and PM_{2.5}). Note that ozone is another criteria pollutant; however, in terms of defining significance thresholds, ozone is represented by its precursor components, oxides of nitrogen (NO_x) and reactive organic gases.

2.1.2 Localized Significance Thresholds

Project-related construction or operational air emissions may have the potential to exceed the State and national air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact on the SCAQMD. As a result, the SCAQMD recommends the evaluation of localized significance thresholds (LSTs) that represent the maximum rates of daily construction or operational emissions from a project site that would not result in air pollutant levels that would exceed national or State ambient air quality standards^{3,4}). There are three principal differences between the regional thresholds and the LSTs.

- First, the regional thresholds include all sources of Project construction and operational emissions generated from both onsite and offsite emission sources; the LSTs only consider the emissions generated from onsite emission sources.
- The LSTs only apply to CO, NO_x, and particulate matter (PM₁₀ and PM_{2.5}); the regional thresholds also include ROG and SO_x emissions.
- The regional thresholds apply to emission sources regardless of where the source is located within the SCAQMD; the LSTs are location-dependent, Project's size, and emission locations relative to the nearest sensitive receptor⁵.

For purposes of this localized assessment, the SCAQMD provides screening emission look-up tables for projects that disturb a maximum of 5 acres in size in a day. The look-up tables were developed by the SCAQMD to readily determine if the daily emissions of CO, NO_x, PM₁₀, and PM_{2.5} from a project could significantly impact the local air quality. The appropriate LSTs can be determined based on the Project's source receptor area (SRA)⁶, size, and distance to nearest sensitive receptor. The SCAQMD has divided the SCAQMD into 37 SRAs, each with a set of LSTs that depend on the air pollutant, project size, and distance to the nearest sensitive receptor. The Project site is located within SRA 24, Perris Valley. The LSTs for this SRA were applied to the Project.

LSTs for Construction

The SCAQMD published a "Fact Sheet for Applying CalEEMod to Localized Significance Thresholds" (SCAQMD 2011)⁷. The CalEEMod model calculates construction emissions based on the number and types of construction equipment, equipment hours, rates of emission, the maximum daily disturbance activity

² SCAQMD April 2019. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>

³ SCAQMD 2003. Final Localized Significance Threshold Methodology. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf?sfvrsn=2>

⁴ SCAQMD 2008: Final Localized Significance Threshold Methodology. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf>

⁵ The SCAQMD defines a sensitive receptor as an individual who is most health-wise susceptible to exposures to air pollutants including children the elderly, and adults with chronic health issues. Such receptors include residences, schools, elderly care centers, and hospitals where such receptors could be exposed to air pollutants for at least 24 hours.

⁶ A source-receptor area (SRA) is a geographic area within the SCAQMD that can act as both a source of emissions and a receptor of emission impacts.

⁷ SCAQMD 2011: Fact Sheet for Applying CalEEMod to Localized Significance Thresholds. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf>

possible for each piece of equipment, and the developmental intensity. The daily maximum disturbed area during construction serves as the factor in determining the project size value of the LSTs for construction. The Project site is approximately 3.5 acres. Therefore, it was assumed that the entire Project site would be disturbed during an individual day. Therefore, the maximum daily disturbed area during construction was set as 3.5 acres for the localized assessment of construction impacts.

The specification of LSTs is also dependent on the distance to the nearest sensitive receptor. The location of the nearest sensitive receptor depends not only on the distance from the Project but also on the duration for which a receptor may be exposed to air pollution. The SCAQMD considers a sensitive receptor to be a location such as a residence, hospital, convalescent facility where it is possible that an individual could remain for 24 hours or longer. Commercial and industrial facilities are not included in the definition of a sensitive receptor because employees do not typically remain onsite for a full 24 hours, but are present for shorter periods, such as eight hours⁸ or less.

Residential areas are located immediately to the north, east, and west of the Project, with the Winchester Elementary School located to the south of the Project. The closest sensitive receptor where a receptor could reside for 24 hours or longer is located at an existing residence at the southwest corner of the Project at a distance of approximately 5 meters. The SCAQMD recommends that for receptors located less than 25 meters from a project, the receptor distance should be set to 25 meters, the shortest distance contained in the SCAQMD LST emission look-up tables. Table 2 provides the applicable construction LSTs for this Project.

Table 2: Construction Localized Significance Thresholds

NOx (lbs/day)	CO (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)
220	1,230	10	7
LSTs for SRA 9, Project area of 3.5 acres and a receptor distance of 25 meters. The LSTs were interpolated from the 2 and 5 acre LSTs provided in the SCAQMD LST look-up tables.			

LST for Operation

The LST methodology would typically not apply to the operational phase of a project such as an RV and boat storage area project because emissions for this type of project are primarily generated by mobile sources traveling on local roadways and not from emission sources located on the Project site. For example, the operational LSTs would apply to the operational phase of a project if the project includes stationary sources or attracts mobile sources that may spend long periods queuing and idling at the site. Such projects would include warehouse/transfer facilities or large stationary sources such as a refinery, chemical factory, or railyard. As the Project would include an RV and boat storage facility, an operational analysis applying the LST methodology is inappropriate, and the localized operational impacts would be considered less than significant.

⁸ SCAQMD 2003. Final Localized Significance Threshold Methodology. Website: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf?sfvrsn=2>

2.1.3 Cumulative Significance Thresholds

The SCAQMD has published the following report on addressing cumulative impacts from air pollution: White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution (SCAQMD 2003)⁹. The SCAQMD considers projects that exceed the project-specific significance thresholds to be cumulatively considerable. Therefore, the project-specific and cumulative significance thresholds are the same. As a result, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.

The US Environmental Protection Agency currently designates the South Coast Air Basin where the Project is located as nonattainment for ozone, PM₁₀, and PM_{2.5}. By its nature, air pollution is largely a cumulative impact resulting from emissions generated over a large geographic region. The nonattainment status of regional pollutants results from past and present development within the air basin, and this regional impact is a cumulative impact. In other words, new development projects (such as the Project) within the air basin would contribute to this impact only on a cumulative basis. No single project would be sufficient in size to result in the nonattainment of regional air quality standards. Instead, a project's emissions may be individually limited, but cumulatively considerable when taken in combination with past, present, and future development projects.

Therefore, the determination of cumulative air quality impacts for construction and operational emissions was based on whether the Project would result in regional emissions that exceed SCAQMD regional thresholds of significance for construction and operations on a project level. Projects that generate emissions below the SCAQMD regional significance thresholds would be considered consistent with regional air quality planning efforts and would not generate cumulatively considerable emissions.

2.2 - Criteria Pollutant Emission and Impact Estimates

2.2.1 Project Emissions

The construction and operational emissions were based on the information provided by the applicant.

Construction

The assessment employed two methodologies to estimate the Project's construction emissions. The CalEEMod Model (Version 2020.4.0) was used to estimate the construction emissions from the Project site itself, involving the site preparation, grading, building construction, paving, and architectural coating construction activities. A second methodology applied the Road Construction Emission Model (Version 9.0.0)¹⁰ to estimate the offsite emissions associated with the roadway improvements to Willard Street, Winchester Road, and Haddock Street.

Assumptions

- **Construction Schedule:** Construction is anticipated to commence in the summer of 2022 (assumed to be April 2022 and last for approximately 6 months. The Project occupancy is expected in late 2022

⁹ SCAQMD 2003. White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution

¹⁰ Sacramento Metropolitan Air Quality Management District 2021. Road Construction Emission Model. Website: <http://www.airquality.org/Businesses/CEQA-Land-Use-Planning/CEQA-Guidance-Tools>. The Road Construction Emission Model is used to estimate the emissions from the construction of linear-type projects such as a roadway, pipeline, or rail line.

- To accommodate a compressed 6-month construction schedule, the default CalEEMod construction schedule was modified to include the assumption that construction would occur over a 7-day per week schedule, 8-hours per day¹¹.
- Fugitive dust mitigation applied as per SCAQMD Rule 403 – Fugitive Dust (3x daily watering, vehicle speeds < 15 mph on unpaved roads, soil moisture content =12% on unpaved roads)
- Construction equipment inventory derived from the CalEEMod model equipment specifications
- The offsite roadway construction was assumed to last for one month for each of the three roadways to be improved with construction completed in series commencing with the start of the onsite site preparation activity; each roadway’s construction schedule and equipment were derived from the Roadway Model.

Construction Emissions

Emissions from the Construction of the Project Site

The CalEEMod model generates an estimate of construction emissions based on a default set of construction activities (site preparation, grading, building construction, paving, and architectural coating), the length in time of each activity, and an associated inventory of construction equipment for each activity. For this particular Project, no onsite demolition will be required. Off-road heavy-duty construction equipment associated with construction activities would rely on diesel fuel, as would vendor and haul trucks involved in delivering building materials and grading from the Project site. The estimate of the Project’s construction emissions applied modifications to the CalEEMod to the default assumptions to accommodate a compressed 6-month construction schedule.

The Project’s conceptual onsite construction schedule and equipment inventory are provided in Table 4 and Table 5, respectively. Table 6 presents the Project’s construction vehicle trips.

Table 3: Onsite Construction Schedule

Activity	Start Date	End Date	Total Days ⁽¹⁾
Site Preparation	4/01/2022	4/05/2022	5
Grading	4/06/2022	4/13/2022	8
Building Construction	4/14/2022	8/16/2022	125
Paving	8/17/2022	9/03/2022	18
Architectural Coating s	9/14/2022	9/21/2022	18
Note: ⁽¹⁾ Construction assumes a 7-day per week, 8-hour per day construction schedule Source: see Data Attachment			

¹¹ Riverside County Ordinance 847 prohibits construction within 0.25 mile of an occupied residence unless it occurs between the hours of 6:00 a.m. and 6:00 p.m. (June through September) or between the hours of 7:00 a.m. and 6:00 p.m. (October through May). For purposes of this assessment a construction schedule of 7 days per week was assumed. Construction is not expected to be greater than 8 hours per day within the time window prescribed by the County Noise Ordinance except under unusual or emergency conditions.

Table 4: Onsite Construction Equipment Inventory

Activity	Equipment	Equipment Number	Project Hours per day	Default Horse-power	Default Load Factor
Site Preparation	Rubber Tired Dozer	3	8	247	0.40
	Tractors/Loaders/Backhoes	4	8	97	0.37
Grading	Excavators	1	8	158	0.38
	Graders	1	8	187	0.41
	Rubber Tired Dozers	1	8	247	0.40
	Tractors/Loaders/Backhoes	3	8	97	0.37
Building Construction	Crane	1	8	231	0.29
	Forklifts	3	8	89	0.20
	Tractors/Loaders/Backhoes	3	8	97	0.37
	Welders	1	8	46	0.45
	Generator Set	1	8	84	0.74
Paving	Cement and Motor Mixers	2	8	9	0.56
	Tractors/Loaders/Backhoes	1	8	97	0.37
	Pavers	1	8	130	0.42
	Paving Equipment	2	8	132	0.36
	Rollers	2	8	80	0.38
Architectural Coating	Air Compressor	1	6	78	0.48

Source: see Data Attachment

Table 5: Onsite Construction Vehicle Trips

Activity	Construction Trips per Day		Total Trips
	Worker	Vendor	Haul
Site Preparation	18	0	0
Grading	15	0	300
Building Construction	65	25	0
Paving	20	0	0
Architectural Coating	13	0	0

Source: see CalEEMod output

Construction Emissions from the Offsite Roadway Improvements

The Project construction would also involve improvements to the Project’s adjacent offsite roadways. The roadway improvements would generally include grading the existing dirt surface and the paving and

striping of the completed roadway surface. The Data Attachment provides the calculations and assumptions for estimating the offroad roadway improvements.

Table 7 presents the Project’s estimated maximum daily regional construction emissions. As noted in Table 7, the Project construction would not exceed the SCAQMD’s regional emission significance thresholds. Table 8 presents the results of the Project’s localized construction impact assessment accounting for only the emissions generated from the onsite construction activities as per the LST assessment methodology. From Table 8, the Project construction would not exceed the SCAQMD’s construction localized emission significance thresholds.

Table 6: Estimated Maximum Daily Regional Construction Emissions

Construction Activity	Maximum Daily Regional Emissions ⁽¹⁾ (pounds/day)					
	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
2022						
Site Preparation	3.3	33.1	20.4	<0.1	9.5	5.5
Grading	2.1	25.7	17.0	<0.1	4.6	3.8
Building Construction	2.2	18.1	20.4	<0.1	1.8	1.0
Paving	1.7	11.5	15.4	<0.1	0.8	0.6
Architectural Coating	3.2	1.9	2.9	<0.1	0.2	0.1
Offsite Roadways ⁽²⁾						
Winchester Road	4.4	45.7	38.8	0.1	8.3	3.1
Willard Street	4.3	45.3	38.4	0.0	4.6	2.3
Haddock Street	4.3	45.3	38.4	0.0	4.7	2.3
Maximum Daily Emission⁽¹⁾	7.7	78.8	59.2	0.1	17.8	8.6
SCAQMD Significance Thresholds	75	100	550	150	150	55
Emissions Exceed Thresholds?	No	No	No	No	No	No
Notes:						
⁽¹⁾ The maximum daily emissions occur during the simultaneous onsite site preparation activity and the Winchester Road roadway improvement construction activity						
⁽²⁾ Note that the Roadway Construction Emission Model currently uses the vehicle emission factors appropriate to Sacramento County; The presented emission estimates above will overestimate the offsite roadway emissions since the haul truck emission rates for Sacramento County are significantly higher than the vehicle emission factors for Riverside County						
ROG = reactive organic gases NO _x = oxides of nitrogen PM ₁₀ = particulate matter 10 microns or less in diameter						
PM _{2.5} = particulate matter 2.5 microns or less in diameter CO = carbon monoxide SO _x = sulfur oxides						
PM emissions reflect SCAQMD Rule 403 reductions						
Source: see Data Attachment						

Table 7: Estimated Maximum Daily Localized Construction Emissions

Construction Activity	Maximum Daily Localized Emissions (pounds/day)			
	NO _x	CO	PM ₁₀	PM _{2.5}
2022				
Site Preparation	33.1	19.7	9.3	5.4
Grading	20.9	15.3	3.7	3.5
Building Construction	18.1	20.4	0.9	0.8
Paving	11.4	14.6	0.6	0.5
Architectural Coating	1.9	2.4	0.1	0.1
Maximum Daily Emissions	33.1	20.4	9.3	5.4
SCAQMD Significance Thresholds	220	1,230	10.0	6.0
Emissions Exceed Thresholds?	No	No	No	No
NO _x = oxides of nitrogen PM ₁₀ = particulate matter 10 microns or less in diameter PM _{2.5} = particulate matter 2.5 microns or less in diameter CO = carbon monoxide PM emissions reflect SCAQMD Rule 403 emission reductions Source: see Data Attachment				

Project Operational Emissions

The Project’s day-to-day operations would generate the Project’s long-term emissions. Operational emissions for land use development projects are typically distinguished as mobile, area, and energy-source emissions. Mobile-source emissions are associated with Project-related automobiles and other motor vehicles that would travel to and from the Project site. In accordance with the Project’s traffic impact memorandum¹², the Project is expected to generate 106 daily trips. The CalEEMod default vehicle fleet mix, trip purpose, and trip lengths were assumed in estimating the Project's mobile source emissions. Area-source emissions result from landscape maintenance activities and periodic architectural coatings, while the energy-source emissions result primarily from natural gas consumption. Table 9 summarizes the Project’s regional operational emissions and a comparison to the SCAQMD’s regional significance thresholds. As noted in Table 9, the Project’s regional operational emissions are less than the regional significance thresholds.

¹²Rick Engineering Company 2021. NO WORRIES! RV AND BOAT STORAGE TRIP GENERATION AND VMT AND TRAFFIC ANALYSIS ASSESSMENT

The Project's construction and operational emissions would not exceed the SCAQMD's established project level or cumulative regional or localized pollutant significant thresholds during either construction or operation. Therefore, the Project's impacts are less than significant.

As shown in Table 9 above, the Project's maximum daily operational emissions would not exceed SCAQMD's regional thresholds of significance. Therefore, the Project's operational emissions would not result in a cumulatively considerable incremental contribution to the existing air quality. The cumulative impact from the long-term Project operation would be less than significant.

Operations

As shown above in Table 7, the Project's maximum daily regional construction emissions would not exceed SCAQMD's regional thresholds of significance. Therefore, the Project's construction emissions would not result in a cumulatively considerable incremental contribution to the existing air quality. Furthermore, all construction activities would comply with applicable SCAQMD rules and regulations, including Rule 403 to minimize fugitive PM dust emissions. Therefore, the cumulative impact of the Project construction would be less than significant.

Construction

2.2.2 Cumulative Impacts

Operational Activity	Maximum Daily Regional Emissions (pounds/day)				
	PM _{2.5}	PM ₁₀	CO	NO _x	ROG
Area	0.0	0.0	<0.1	0.0	0.1
Energy	<0.1	<0.1	<0.1	<0.1	<0.1
Mobile –	0.3	1.0	4.3	0.6	0.4
Total Operational Emissions	0.3	1.0	4.3	0.6	0.5
SCAQMD Significance Threshold	55	150	550	55	55
Exceed Threshold?	No	No	No	No	No

NO_x = oxides of nitrogen PM₁₀ = particulate matter 10 microns or less in diameter ROG = reactive organic gases
 PM_{2.5} = particulate matter 2.5 microns or less in diameter CO = carbon monoxide
 Source: see Data Attachment

Table 8: Estimated Maximum Daily Regional Operational Emissions

SECTION 3: CALEEMOD EMISSION ESTIMATES - GREENHOUSE GAS EMISSIONS

This section analyzes the potential impacts on climate change from the Project's emissions of various greenhouses (GHG).

3.1 - Regulatory Setting

In 2015, the County completed a comprehensive update of its General Plan and certified an Environmental Impact Report No. 521 (2015 General Plan Amendment EIR), State Clearinghouse (SCH) No. 200904105. The County's General Plan update included a Sustainability and Global Environmental Stewardship vision culminating in the 2015 County of Riverside Climate Action Plan (2015 CAP). The 2015 CAP established the County's sustainability and conservation measures based on an unincorporated Riverside County baseline inventory of greenhouse gas (GHG) emissions from 2008 and developed a year 2020 GHG emissions reduction target of 15 percent below 2008 baseline levels in accordance with the State reduction goals in Assembly Bill (AB) 32. The emissions categories included in the 2008 baseline GHG inventory are transportation, energy (electricity and natural gas), area sources, purchased water, solid waste, and agriculture.

In 2019 the County updated its Climate Action Plan (CAP Update) that established GHG emission reduction programs and regulations that correlate with and support the evolving GHG emission reduction goals and strategies. The CAP Update includes reduction targets for year 2030 and year 2050. These reduction targets require the County to reduce emissions by at least 525,511 MT CO₂e below the Adjusted Business as Usual (ABAU) scenario by 2030 and at least 2,982,948 MT CO₂e below the ABAU scenario by 2050 (CAP Update, p.7-1).

The County has implemented CAP Update Screening Tables (Screening Tables) to measure GHG emissions reduction attributable to certain design and construction measures incorporated in development projects to evaluate consistency with the CAP Update. To this end, the Screening Tables establish categories of GHG Implementation Measures. Under each Implementation Measure category, mitigation or project design features (collectively "features") are assigned point values that correspond to the minimum GHG emissions reduction that would result from each feature. Projects that yield at least 100 points are considered to be consistent with the GHG emissions reduction quantities anticipated in the County's GHG Technical Report and support the GHG emissions reduction targets established under the CAP Update. The potential for such projects to generate direct or indirect GHG emissions that would result in a significant impact on the environment; or conflict with an applicable plan, policy, or regulation adopted to reduce the emissions of GHGs would be considered less than significant

3.2 - Significance Threshold

The CAP Update identifies a two-step approach in evaluating GHG emissions. First, a 3,000 MTCO₂e/yr screening threshold is used to determine if additional analysis is required. Projects that exceed 3,000 MTCO₂e/yr will be required to quantify and disclose the anticipated GHG emissions then either 1) demonstrate the GHG emissions at project buildout year levels of efficiency and include project design features and/or mitigation measures to reduce GHG emissions or 2) garner 100 points through the

Screening Tables. Projects that garner at least 100 points (equivalent to an approximate 49% reduction in GHG emissions) are determined to be consistent with the reduction quantities anticipated in the County’s GHG Technical Report, and consequently would be consistent with the CAP Update. As such, projects that achieve a total of 100 points or more are considered to have a less than significant individual and cumulative impact on GHG emissions.

3.3 - Project GHG Emissions

3.3.1 Construction

The Project construction is anticipated to last approximately 6-months. The construction-related activities involve the following: site preparation, grading, building construction, paving, and architectural coatings. In addition, the Project construction would also involve the improvements of Willard Road, Haddock Road, and Winchester Road. These construction activities would result in the emission of GHGs from equipment exhaust, construction-related truck trips, and construction worker automobile trips. The total estimated construction-related GHG emissions were amortized over 30 years per the SCAQMD methodology and added to the Project’s operational GHG emissions to arrive at the Project’s total annual GHG emissions. Table 10 summarizes the Project’s construction GHG emissions. The Project’s amortized construction emissions would equal approximately 18 MTCO_{2e} per year.

Table 9: Project Construction GHG Emissions

Activity	Annual GHG Emissions (MTCO _{2e})
2022 – Construction of the Project Site	272
2022 – Offsite Roadway Improvements	282
Total Emissions	554
Total Emissions Amortized Over 30 years	18
Source: see Data Attachment	

3.2.2 Operations

Project operation at buildout would generate GHG emissions from vehicle trips, electricity and natural gas consumption, landscape maintenance equipment, water and wastewater transport (the energy used to pump water), and solid waste generation. GHG emissions from electricity consumed by the new development would be generated offsite by fuel combustion at the electricity provider. GHG emissions from water transport are also indirect emissions resulting from the energy required to transport water from its source. GHG emissions from solid waste disposal are associated with the anaerobic breakdown of material. Table 11 summarizes the Project’s operational GHG emissions, along with the construction GHG emissions and the total Project GHG emissions. The Project would result in GHG emissions of 191 MTCO_{2e} per year. This level of emissions does not exceed the 3,000 MTCO_{2e} per year significance threshold adopted for this Project. Therefore, the Project would have a less than significant individual and cumulative impact for GHG emissions.

Table 10: Project Operational GHG Emissions

Emission Source	Annual GHG Emissions ⁽¹⁾ (MTCO ₂ e)
Area	<0.1
Energy	9
Mobile	161
Waste	1
Water	2
Total Project Operational Emissions	173
Total Amortized Project Construction Emissions	18
Total Project Construction and Operation Emissions	191
Significance Threshold	3,000
Project Exceeds Threshold?	NO
<p>Note: ⁽¹⁾ The CalEEMod model provides GHG estimates for three pollutants: carbon dioxide, methane, and nitrous oxide. Carbon dioxide contributes over 97 percent of the total GHG emissions. Source: see Data Attachment</p>	

SECTION 4: PROJECT FUEL AND ENERGY CONSUMPTION

4.1 - Assumptions

- Construction equipment fuel consumption derived from ARB Offroad2021 emission model and the CalEEMod construction equipment
- Fuel Consumption from vehicle travel derived from ARB EMFAC2021 emission model
- Electrical and natural gas usage derived from the CalEEMod model

4.2 - Significance Thresholds

Neither Appendix F of the State CEQA Guidelines nor PRC Section 21100(b)(3)) provides a numerical threshold of significance that might be used to evaluate the potential significance of energy consumption of a proposed project. Instead, the emphasis is on reducing “the wasteful, inefficient, and unnecessary consumption of energy.” Based on this focus of the guidelines, for purposes of this report, the proposed Project would have a significant impact related to energy consumption if it would:

- Involve the wasteful, inefficient, and unnecessary consumption of energy, especially fossil fuels such as coal, natural gas, and petroleum, associated with project design, project location, the use of electricity and natural gas, and the use of fuel by vehicles anticipated to travel to and from the Project.

4.3 - Construction

4.3.1 Electricity and Natural Gas Usage

Southern California Edison Company would provide temporary electric power for necessary lighting and electronic equipment such as computers inside temporary construction trailers and construction tools. The electricity used for such activities would be temporary and would be substantially less than that required for project operation and would have a negligible contribution to the Project’s overall energy consumption.

Natural gas is not anticipated to be required during the Project’s construction. Fuels used during the construction would primarily consist of diesel and gasoline, which are discussed below under the “Petroleum Fuel Usage” subsection. Any minor amounts of natural gas that may be consumed as a result of Project construction would be substantially less than that required for Project operation and would have a negligible contribution to the Project’s overall energy consumption.

4.3.2 Petroleum Fuel Usage

Off-road heavy-duty construction equipment associated with construction activities would rely on diesel fuel, as would vendor and haul trucks involved in delivering building materials and grading from the Project site. Construction workers would travel to and from the Project site throughout the duration of construction. This analysis assumed that construction workers would travel to and from the site in gasoline-powered passenger vehicles. Table 12 presents the fuel usage for the off-road construction equipment. These estimates are based on the total fuel consumption and horsepower-hour data

contained within the ARB OFFROAD2021 emission model for the specific types of diesel construction equipment to be employed in the Project construction. Note that the total fuel consumption during construction computed below likely substantially overstates the amount of fuel usage. Although individual construction equipment and its duration are listed under a particular construction activity, there is a likelihood that all of the inventoried equipment would not operate over the entire duration of the construction activity. For example, a crane is listed as one of the operational pieces of equipment during building construction. However, it is highly unlikely that the crane would operate over the entire duration of 300 days assumed during the building construction activity.

Table 13 summarizes the Project's construction vehicle fuel usage. The fuel usage is based on the vehicle type (worker vehicle, vendor vehicle, and haul truck), vehicle miles traveled, and fuel usage factors contained in the ARB EMFAC2021 mobile source emission model and in the CalEEMod model. Table 14 summarizes the total fuel construction during construction.

4.4 - Operational Energy Requirements

Table 15 summarizes the Project's operational energy requirements. The analysis indicates that the Project would generate 470,725 annual vehicle miles traveled and require energy usage of 39,404 thousand kilowatt-hours and 43,452 thousand BTU of natural gas annually.

4.5 - Conclusion

Construction of the Project would result in fuel consumption from the use of construction tools and equipment, vendor and haul truck trips, and vehicle trips generated from construction workers traveling to and from the site. Construction activities and corresponding fuel energy consumption would be temporary and localized, as the use of diesel fuel and heavy-duty equipment would not be a typical operational condition of the Project. There are no unusual project characteristics that would cause the use of construction equipment that would be less energy efficient compared with other similar construction sites in other parts of the State. The rational goal of any construction job, whether it is for a household task or construction project such as the proposed Project, is to minimize construction costs while meeting all legal requirements for doing so. Therefore, construction-related fuel consumption by the Project would not result in inefficient, wasteful, or unnecessary energy use compared with other construction sites in the region.

The Project would involve the development of an RV and boat storage facility. Fuel and energy use would arise from user vehicles, natural gas and electricity use for building air conditioning, solid waste disposal, and water use. According to CEQA Guidelines Appendix F, the goal of conserving energy implies the wise and efficient use of energy, including decreasing overall per capita energy consumption, reducing reliance on natural gas and oil, and increasing reliance on renewable energy sources. The Project would comply with all of the energy efficiency requirements under all applicable State, county, and local business and energy code ordinances. As a result, the operation of the Project would not result in inefficient, wasteful, or unnecessary energy use compared with other similar residential projects in the region. Therefore, the Project would result in a less than significant impact.

Table 11: Onsite Construction Equipment Fuel Usage

Activity	Equipment	Equipment Number	Project Hours per day	Default Horsepower	Default Load Factor	Days of Construction	Total Horsepower-hours	Fuel Rate (gal/hp-hr)	Fuel Use (gallons)
Site Preparation	Rubber Tired Dozer	3	8	247	0.40	5	11,856	0.0205	243
	Tractors/Loaders/Backhoes	4	8	97	0.37	5	5,742	0.0191	110
Grading	Excavators	1	8	158	0.38	8	3,843	0.0198	76
	Graders	1	8	187	0.41	8	4,907	0.0211	104
	Rubber Tired Dozers	1	8	247	0.40	8	6,323	0.0205	130
	Tractors/Loaders/Backhoes	3	8	97	0.37	8	6,891	0.0191	132
	Tractors/Loaders/Backhoes	3	8	97	0.37	125	107,670	0.0191	2,056
Building Construction	Crane	1	8	231	0.29	125	66,990	0.0149	998
	Forklifts	3	8	89	0.20	125	53,400	0.0215	1,148
	Generator Set	1	8	84	0.74	125	62,160	0.0215	1,336
	Welders	1	8	46	0.45	125	20,700	0.0240	497
	Pavers	1	8	130	0.42	18	7,862	0.0215	169
Paving	Cement and Mortor Mixers	2	8	9	0.56	18	1,452	0.0240	35
	Tractors/Loaders/Backhoes	3	8	97	0.37	18	15,504	0.0191	296
	Paving Equipment	2	8	132	0.36	18	13,686	0.0183	250
	Rollers	2	6	80	0.38	18	6,566	0.0194	127
	Architectural Coating	Air Compressor	1	6	78	0.48	20	4,493	0.0215
Fuel Consumption rates derived from the ARB OFFROAD2021								Total	7,804

Table 12: Offsite Roadway Construction Equipment Fuel Usage

Activity	Equipment	Equipment Number	Project Hours per day	Default Horsepower	Default Load Factor	Days of Construction	Total Horsepower-hours	Fuel Rate (gal/hp-hr)	Fuel Use (gallons)
Grubbing/Clearing	Rubber Tired Dozer	2	8	247	0.40	4	6,323	0.0205	130
	Crawler Tractor	2	8	97	0.37	4	2,297	0.0222	51
	Excavator	2	8	187	0.41	4	4,907	0.0198	97
	Signal Board	3	8	6	0.82	4	472	0.0215	10
Grading	Crawler Tractor	3	8	158	0.38	13	18,732	0.0222	415
	Excavator	9	8	187	0.41	13	71,763	0.0198	1,421
	Grader	3	8	247	0.40	13	30,826	0.0211	650
	Rollers	6	8	80	0.38	13	18,970	0.0194	368
	Rubber Tired Loader	3	8	247	0.40	13	30,826	0.01866	575
	Scrapers	6	8	367	0.48	13	109,924	0.0250	2,748
	Signal Board	6	8	6	0.82	13	3,070	0.0215	66
	Tractors/Loaders/Backhoes	6	8	97	0.37	13	22,395	0.0191	428
Drainage/Utilities	Air Compressor	3	8	78	0.48	11	9,884	0.0215	213
	Generator Sets	3	8	84	0.74	11	16,410	0.0215	353
	Graders	3	8	187	0.40	11	19,747	0.0211	417
	Plate Compactor	3	8	8	0.43	11	908	0.0215	20
	Pumps	3	8	84	0.74	11	16,410	0.0215	353
	Rough Terrain Forklift	3	8	100	0.40	11	10,560	0.0208	220
	Scrapers	6	8	367	0.48	11	93,012	0.025	2,325
	Signal Board	6	8	6	0.82	11	2,598	0.0215	56
	Tractors/Loaders/Backhoes	6	8	97	0.37	11	18,950	0.0191	362
Paving	Pavers	3	8	130	0.42	2	2,621	0.0215	56
	Paving Equipment	3	8	132	0.36	2	2,281	0.0183	42
	Rollers	9	8	80	0.38	2	4,378	0.0194	85
	Signal Board	6	8	6	0.82	2	472	0.0215	10
	Tractors/Loaders/Backhoes	6	8	97	0.37	2	3,445	0.0191	66
Fuel Consumption rates derived from the ARB OFFROAD2021									11,536

Table 13: Estimated Project Construction Vehicle Fuel Usage

Construction Source ⁽¹⁾	Gallons of Diesel Fuel	Gallons of Gasoline Fuel
Onsite Construction		
Haul Trucks	1,199	0
Vendor Trucks	4,986	0
Worker Vehicles	0	5,059
Onsite Construction Vehicles Total	6,185	5,059
Offsite Roadway Improvements		
Haul Trucks	221	0
Water Trucks	602	0
Worker Vehicles	0	7,274
Offsite Roadway Improvements	823	7,274
Total Construction Vehicles	7,008	12,333
Note: (1) All haul trucks and vendor trucks are assumed to be diesel-fueled while all worker vehicles are assumed to be gasoline-fueled. Source: see Data Attachment		

Table 14: Total Construction Fuel Usage

Construction Source	Gallons of Diesel Fuel	Gallons of Gasoline Fuel
Construction Vehicles	7,008	12,333
Construction Equipment	19,340	0
Construction Total	26,348	12,333
Source: see Data Attachment		

Table 15: Project Annual Operational Energy Requirements

Operational Source (value per year)		
Energy Source	Annual VMT	Gallons of Gasoline Fuel
Transportation – Project	75,132 (Diesel) 395,593 (Gas) 470,725 (Total)	4,095 (Diesel) 17,136 (Gas)
Thousands Kilowatt-Hours		
Electricity – Project	39,404	
Thousands British Thermal Units		
Natural Gas – Project	43,452	
Note: Source: see Data Attachment		

CalEEMod Model Spreadsheet Output

	Page
Construction LST	A-1
Summary of CalEEMod Construction Emissions - Onsite	A-2
Construction Equipment Fuel Usage - Onsite	A-3
Fuel Consumption Construction Vehicles - Onsite	A-4
Construction Equipment Fuel Consumption – Offsite Roadway Improvements	A-5
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Offsite Roadway Improvements Emission Summary	A-7
Operational VMT and Fuel USE	A-13
CalEEMod Model Output: Construction and Operation	A-14

No Worries RV and Boat Storage Project

Localized Threshold - Construction

Site Receptor Area: 24

Daily Maximum Disturbed Area

3.5 acres

Nearest Sensitive Receptpr		25 meters		
Pollutant	2 acres for 25 meters (lbs/day)	5 acres for 25 meters (lbs/day)	3.5 acres 25 meters (lb/day)	
NOx	170	270	220	
CO	883	1577	1230	
PM10	7	13	10	
PM2.5	4	8	6	

No Worries RV and Boat Storage Project

CalEEMod Construction Emission Summary

2022	Maximum Daily Emissions (pounds/day)									
	ROG	NOx	CO	SOx	PM10F	PM10Exh	PM10Total	PM2.5Fug	PM2.5 Exh	PM2.5Total
Site Preparation (4/1/22-4/5/22)										
Onsite	3.2	33.1	19.7	0	7.7	1.6	9.3	3.9	1.5	5.4
Offsite	0.1	0	0.7	0	0.2	0	0.2	0.1	0	0.1
Total	3.3	33.1	20.4	0	7.9	1.6	9.5	4	1.5	5.5
Grading (4/6/22- 4/13/22)										
Onsite	1.9	20.9	15.3	0.0	2.8	0.9	3.7	1.3	2.2	3.5
Offsite	0.2	4.8	1.7	0.0	0.8	0.1	0.9	0.2	0.1	0.3
Total	2.10	25.7	17	0.0	3.6	1	4.6	1.5	2.3	3.8
Building Construction (4/14/22-8/16/22)										
Onsite	1.9	16.8	17.4	0	0	0.9	0.9	0	0.8	0.8
Offsite	0.3	1.3	3	0	0.9	0	0.9	0.2	0	0.2
Total	2.2	18.1	20.4	0	0.9	0.9	1.8	0.2	0.8	1
Paving (8/17/22-9/3/22)										
Onsite	1.6	11.4	14.6	0.0	0.6	0.0	0.6	0.0	0.5	0.5
Offsite	0.1	0.1	0.8	0.0	0.2	0.0	0.2	0.1	0.0	0.1
Total	1.7	11.5	15.4	0.0	0.8	0.0	0.8	0.1	0.5	0.6
Architectural Coating (9/14/22-9/21/22)										
Onsite	3.1	1.9	2.4	0.0	0.0	0.1	0.1	0.0	0.1	0.1
Offsite	0.1	0.0	0.5	0.0	0.1	0.0	0.1	0.0	0.0	0.0
Total	3.2	1.9	2.9	0.0	0.1	0.1	0.2	0.0	0.1	0.1
2022 Max Onsite	3.2	33.1	19.7	0.0	7.7	1.6	9.3	3.9	2.2	5.4
Offsite Roadway Improvements										
	ROG	NOx	CO	SOx	PM10F	PM10Exh	PM10 Total	PM2.5F	PM2.5Exh	PM2.5 Total
Winchester Road (4/1/22-4/30/22)	4.4	45.7	38.8	0.1	6.4	1.9	8.3	1.3	1.8	3.1
Willard Road (5/1/22-5/31/22)	4.3	45.3	38.4	0.1	2.7	1.9	4.6	0.6	1.7	2.3
Haddock Road (6/1/22-6/30/22)	4.3	45.3	38.4	0.1	2.8	1.9	4.7	0.6	1.7	2.3
2022 Max Total Overlapping Emissions (Site Preparation + Winchester Road Improvements)	7.7	78.8	59.2	0.1	14.3	3.5	17.8	5.3	4.1	8.6
Regional Threshold	75	100	550	150			150			55
Exceeds Threshold	NO	NO	NO	NO			NO			NO
LST Threshold		220	1230				10			6
Exceeds LST		NO	NO				NO			NO
Regional Summary										
	ROG	NOx	CO	SOx	PM10	PM2.5				
2022										
Site Preparation	3.3	33.1	20.4	0.0	9.5	5.5				
Grading	2.1	25.7	17	0	4.6	3.8				
Building Construction	2.2	18.1	20.4	0	1.8	1				
Paving	1.7	11.5	15.4	0.0	0.8	0.6				
Architectural Coating	3.2	1.9	2.9	0.0	0.2	0.1				
Offsite Roadway Improvements	4.4	45.7	38.8	0.1	8.3	3.1				
Max Daily Emissions	7.7	78.8	59.2	0.1	17.8	8.6				
Local Summary										
	NOx	CO	PM10	PM2.5						
2022										
Site Preparation	33.1	19.7	9.3	5.4						
Grading	20.9	15.3	3.7	3.5						
Building Construction	18.1	20.4	0.9	0.8						
Paving	11.4	14.6	0.6	0.5						
Architectural Coating	1.9	2.4	0.1	0.1						
Max Daily Emissions	33.1	20.4	9.3	5.4						

No Worries RV and Boat Storage Project

Construction Equipment Fuel Usage - Project Site

Activity	Equipment	Equipment Number	Project Hours per day	Default Horse-power	Default Load Factor	Days of Construction	Total Horsepower-hours	Fuel Rate (gal/hp-hr)	Fuel Use (gallons)
Site Preparation	Rubber Tired Dozer	3	8	247	0.40	5	11,856	0.0205	243
	Tractors/Loaders/Backhoes	4	8	97	0.37	5	5,742	0.0191	110
Grading	Excavators	1	8	158	0.38	8	3,843	0.0198	76
	Graders	1	8	187	0.41	8	4,907	0.0211	104
	Rubber Tired Dozers	1	8	247	0.40	8	6,323	0.0205	130
	Tractors/Loaders/Backhoes	3	8	97	0.37	8	6,891	0.0191	132
	Tractors/Loaders/Backhoes	3	8	97	0.37	125	107,670	0.0191	2,056
Building Construction	Crane	1	8	231	0.29	125	66,990	0.0149	998
	Forklifts	3	8	89	0.20	125	53,400	0.0215	1,148
	Generator Set	1	8	84	0.74	125	62,160	0.0215	1,336
	Welders	1	8	46	0.45	125	20,700	0.0240	497
	Pavers	1	8	130	0.42	18	7,862	0.0215	169
Paving	Cement and Mortor Mixers	2	8	9	0.56	18	1,452	0.0240	35
	Tractors/Loaders/Backhoes	3	8	97	0.37	18	15,504	0.0191	296
	Paving Equipment	2	8	132	0.36	18	13,686	0.0183	250
	Rollers	2	6	80	0.38	18	6,566	0.0194	127
Architectural Coating	Air Compressor	1	6	78	0.48	20	4,493	0.0215	97

Fuel Consumption rates derived from the ARB OFFROAD2021

Total 7,804

No Worries RV and Boat Storage Project

Corrected 3/2/2022

Fuel Consumption from Construction Vehicles (Derived from the ARB EMFAC2021 Mobile Source Emission Model)

Emission Factors

Region (County)	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT (miles/day)	Fuel Consumption (1000 gallons/day)	Fuel Rate (miles/gallon)	Category Composite (miles/gallon)	VMT-GAS (mi/year)	VMT-DSL (mi/year)	Total (mi/year)	%GAS	%DSL	
RIVERSIDE	2022	LDA	Aggregate	Aggregate	Gasoline	20217338	707.7	28.6	28.6	LDA	20217338.5	62797	20280135.2	99.7%	0.3%
		LDA	Aggregate	Aggregate	Diesel	62797	1.5	42.3		LDT1	1556975	434	1557408.6	100.0%	0.0%
	2022	LDT1	Aggregate	Aggregate	Gasoline	1556975	65.8	23.7	23.7	LDT2	8085466	25317	8110782.7	99.7%	0.3%
		LDT1	Aggregate	Aggregate	Diesel	434	0.0	24.5		LHDT1	650381	570490	1220870.9	53.3%	46.7%
	2022	LDT2	Aggregate	Aggregate	Gasoline	8085466	352.2	23.0	23.0	LHDT2	90522	256043	346564.9	26.1%	73.9%
		LDT2	Aggregate	Aggregate	Diesel	25317	0.8	31.3		MDV	142359	6409165	6551524.1	2.2%	97.8%
	2022	LHDT1	Aggregate	Aggregate	Gasoline	650381	50.8	12.8	16.4	MCY	105628	0	105627.6	100.0%	0.0%
		LHDT1	Aggregate	Aggregate	Diesel	570490	28.0	20.4		MHDT	546624	458	547082.5	99.9%	0.1%
	2022	LHDT2	Aggregate	Aggregate	Gasoline	90522	7.8	11.6	15.5	HHDT	1821166	13937	1835103.7	99.2%	0.8%
		LHDT2	Aggregate	Aggregate	Diesel	256043	15.2	16.9		OBUS	14767	16252	31019.2	47.6%	52.4%
	2022	MCY	Aggregate	Aggregate	Gasoline	142359	3.4	41.4	19.1	UBUS	10803	18439	29242.4	36.9%	63.1%
	2022	MDV	Aggregate	Aggregate	Gasoline	6409165	344.3	18.6		SBUS	30	47595	47624.8	0.1%	99.9%
		MDV	Aggregate	Aggregate	Diesel	105628	4.6	23.0	4.6	MH	18423	0	18422.8	100.0%	0.0%
	2022	MHDT	Aggregate	Aggregate	Gasoline	49563	9.8								
		MHDT	Aggregate	Aggregate	Diesel	546624	61.2	8.9	8.9						
	2022	HHDT	Aggregate	Aggregate	Gasoline	458	0.1	3.6							
		HHDT	Aggregate	Aggregate	Diesel	1821166	304.3	6.0	6.0						
	2022	OBUS	Aggregate	Aggregate	Gasoline	13937	2.8	5.0							
		OBUS	Aggregate	Aggregate	Diesel	14767	1.9	7.8	8.3						
	2022	SBUS	Aggregate	Aggregate	Gasoline	16252	1.9	8.7							
		SBUS	Aggregate	Aggregate	Diesel	10803	1.5	7.3	6.3						
	2022	UBUS	Aggregate	Aggregate	Gasoline	18439	3.3	5.6							
		UBUS	Aggregate	Aggregate	Diesel	30	0.0	11.3	4.9						
	2022	MH	Aggregate	Aggregate	Gasoline	47595	9.7	4.9							
		MH	Aggregate	Aggregate	Diesel	18423	1.8	10.4	10.4						
RIVERSIDE	2022	MHDT-T6	Aggregated	Aggregated	DSL									3.6	
RIVERSIDE	2022	HHDT-T7	Aggregated	Aggregated	DSL									5.0	
							Average (50%/50%)							4.3	
RIVERSIDE	2022	LDA	Aggregated	Aggregated	GAS/DSL									28.6	
RIVERSIDE	2022	LDT1	Aggregated	Aggregated	GAS/DSL									23.7	
RIVERSIDE	2022	LDT2	Aggregated	Aggregated	GAS/DSL									23.0	
							Average (50%/25%/25%)							26	
RIVERSIDE	2022	MDV	Aggregated	Aggregated	GAS/DSL									41.4	
RIVERSIDE	2022	LHDT1	Aggregated	Aggregated	GAS/DSL									12.8	
RIVERSIDE	2022	LHDT2	Aggregated	Aggregated	GAS/DSL									11.6	

Vehicle Assumptions (CalEEMod)

Haul trucks represented by HHDT-T7 (heavy-heavy duty DSL haul truck)

Vendor trucks assumed to be 50% DSL HHDT-T7 and DSL MHDT-T6

LDA (light duty automobile for worker vehicles)

LDT1 (light duty truck 1 for worker vehicles)

LDT2 (light duty truck 2 for worker vehicles)

Worker vehicles represented as 50% LDT, 25% LHT1, and 25% LDT2

Construction Vehicle Us (Derived from the CalEEMod model output)

Fuel Consumption for Haul Trucks

Construction Activity	No Haul Truck Trips	Trip Length (miles)	VMT (miles)	DSL Fuel (gallons)
Site Preparation	0	20	0	0
Grading	300	20	6000	1199
Building Construction	0	20	0	0
Paving	0	20	0	0
Architectural Coating	0	20	0	0
Total	300		6000	1199

Construction Activity	No Vendor Truck Trips/day	Duration (days)	Trip Length (miles)	VMT (miles)	Fuel	Fuel Rate (miles/gallon)	DSL Fuel (gallons)
Site Preparation	0	5	6.9	0	DSL	4.3	0
Grading	0	8	6.9	0	DSL	4.3	0
Building Construction	25	125	6.9	21562.5	DSL	4.3	4986
Paving	0	18	6.9	0	DSL	4.3	0
Architectural Coating	0	18	6.9	0	DSL	4.3	0
					Total		4986

Activity	No Worker Vehicles Trips/day	Duration (days)	Trip Length (miles)	VMT (miles)	Fuel	Fuel Rate (miles/gallon)	Gas Fuel (gallons)
Site Preparation	18	5	14.7	1323	GAS	26	51
Grading	15	8	14.7	1764	GAS	26	68
Building Construction	65	125	14.7	119437.5	GAS	26	4604
Paving	20	18	14.7	5292	GAS	26	204
Architectural Coating	13	18	14.7	3440	GAS	26	133
					Total		5059

Summary

	Gallons
Total -DSL	6185
Total - GAS	5059
	11244

No Worries RV and Boat Storage Project

Construction Equipment Fuel Usage - Offsite Roadway Improvements

Activity	Equipment	Equipment Number	Project Hours per day	Default Horse-power	Default Load Factor	Days of Construction	Total Horsepower-hours	Fuel Rate (gal/hp-hr)	Fuel Use (gallons)
Grubbing/Clearing	Rubber Tired Dozer	2	8	247	0.40	4	6,323	0.0205	130
	Crawler Tractor	2	8	97	0.37	4	2,297	0.0222	51
	Excavator	2	8	187	0.41	4	4,907	0.0198	97
	Signal Board	3	8	6	0.82	4	472	0.0215	10
Grading	Crawler Tractor	3	8	158	0.38	13	18,732	0.0222	415
	Excavator	9	8	187	0.41	13	71,763	0.0198	1,421
	Grader	3	8	247	0.40	13	30,826	0.0211	650
	Rollers	6	8	80	0.38	13	18,970	0.0194	368
	Rubber Tired Loader	3	8	247	0.40	13	30,826	0.01866	575
	Scrapers	6	8	367	0.48	13	109,924	0.0250	2,748
	Signal Board	6	8	6	0.82	13	3,070	0.0215	66
	Tractors/Loaders/Backhoes	6	8	97	0.37	13	22,395	0.0191	428
Drainage/Utilities	Air Compressor	3	8	78	0.48	11	9,884	0.0215	213
	Generator Sets	3	8	84	0.74	11	16,410	0.0215	353
	Graders	3	8	187	0.40	11	19,747	0.0211	417
	Plate Compactor	3	8	8	0.43	11	908	0.0215	20
	Pumps	3	8	84	0.74	11	16,410	0.0215	353
	Rough Terrain Forklift	3	8	100	0.40	11	10,560	0.0208	220
	Scrapers	6	8	367	0.48	11	93,012	0.025	2,325
	Signal Board	6	8	6	0.82	11	2,598	0.0215	56
	Tractors/Loaders/Backhoes	6	8	97	0.37	11	18,950	0.0191	362
Paving	Pavers	3	8	130	0.42	2	2,621	0.0215	56
	Paving Equipment	3	8	132	0.36	2	2,281	0.0183	42
	Rollers	9	8	80	0.38	2	4,378	0.0194	85
	Signal Board	6	8	6	0.82	2	472	0.0215	10
	Tractors/Loaders/Backhoes	6	8	97	0.37	2	3,445	0.0191	66
Fuel Consumption rates derived from the ARB OFFROAD2021									11,536

No Worries RV and Boat Storage Project

Fuel Consumption from Construction Vehicles (Derived from the ARB EMFAC2021 Mobile Source Emission Model and the Sacramento Metropolitan Air Quality Management District Road Construction Emission Model.

Emission Factors

Region (County)	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT (miles/day)	Fuel Consumption (1000 gallons/day)	Fuel Rate (miles/gallon)	Category Composite (miles/gallon)	VMT-GAS (mi/year)	VMT-DSL (mi/year)	Total (mi/year)	%GAS	%DSL
RIVERSIDE	2022	LDA	Aggregate	Aggregate	Gasoline	20217338	707.7	28.6	28.6	20217338.5	62797	20280135.2	99.7%	0.3%
		LDA	Aggregate	Aggregate	Diesel	62797	1.5	42.3						
	2022	LDT1	Aggregate	Aggregate	Gasoline	1556975	65.8	23.7	23.7	8085466	25317	8110782.7	99.7%	0.3%
		LDT1	Aggregate	Aggregate	Diesel	434	0.0	24.5						
	2022	LDT2	Aggregate	Aggregate	Gasoline	8085466	352.2	23.0	23.0	90522	256043	346564.9	26.1%	73.9%
		LDT2	Aggregate	Aggregate	Diesel	25317	0.8	31.3						
	2022	LHDT1	Aggregate	Aggregate	Gasoline	650381	50.8	12.8	16.4	142359	6409165	6551524.1	2.2%	97.8%
		LHDT1	Aggregate	Aggregate	Diesel	570490	28.0	20.4						
	2022	LHDT2	Aggregate	Aggregate	Gasoline	90522	7.8	11.6	15.5	546624	458	547082.5	99.9%	0.1%
		LHDT2	Aggregate	Aggregate	Diesel	256043	15.2	16.9						
	2022	MCY	Aggregate	Aggregate	Gasoline	142359	3.4	41.4	19.1	10803	18439	29242.4	36.9%	63.1%
	2022	MDV	Aggregate	Aggregate	Gasoline	6409165	344.3	18.6	4.6	18423	0	18422.8	100.0%	0.0%
	2022	MDV	Aggregate	Aggregate	Diesel	105628	4.6	23.0						
	2022	MHDT	Aggregate	Aggregate	Gasoline	49563	9.8	8.9	8.9	1821166	13937	1835103.7	99.2%	0.8%
		2022	MHDT	Aggregate	Aggregate	Diesel	546624							
	2022	HHDT	Aggregate	Aggregate	Gasoline	458	0.1	3.6	6.0	14767	16252	31019.2	47.6%	52.4%
		2022	HHDT	Aggregate	Aggregate	Diesel	1821166	304.3						
	2022	OBUS	Aggregate	Aggregate	Gasoline	13937	2.8	5.0	8.3	14767	19	14768	100.0%	0.0%
		2022	OBUS	Aggregate	Aggregate	Diesel	14767	1.9						
	2022	SBUS	Aggregate	Aggregate	Gasoline	16252	1.9	8.7	6.3	10803	15	10818	100.0%	0.0%
2022		SBUS	Aggregate	Aggregate	Diesel	10803	1.5	7.3						
2022	UBUS	Aggregate	Aggregate	Gasoline	18439	3.3	5.6	4.9	30	0.0	11.3	100.0%	0.0%	
	2022	UBUS	Aggregate	Aggregate	Diesel	30	0.0							11.3
2022	NH	Aggregate	Aggregate	Gasoline	47595	9.7	4.9	10.4	47595	0	47595	100.0%	0.0%	
	2022	NH	Aggregate	Aggregate	Diesel	18423	1.8							10.4
RIVERSIDE	2022	MHDT-T6	Aggregated	Aggregated	DSL			3.6						
RIVERSIDE	2022	HHDT-T7	Aggregated	Aggregated	DSL			5.0						
								Average (50%/50%)						4.3
RIVERSIDE	2022	LDA	Aggregated	Aggregated	GAS/DSL			28.6						
RIVERSIDE	2022	LDT1	Aggregated	Aggregated	GAS/DSL			23.7						
RIVERSIDE	2022	LDT2	Aggregated	Aggregated	GAS/DSL			23.0						
								Average (50%/25%/25%)					26	
RIVERSIDE	2022	MDV	Aggregated	Aggregated	GAS/DSL			41.4						
RIVERSIDE	2022	LHDT1	Aggregated	Aggregated	GAS/DSL			12.8						
RIVERSIDE	2022	LHDT2	Aggregated	Aggregated	GAS/DSL			11.6						

Vehicle Assumptions (Road Construction Emission Model)

Soil and Asphalt Haul trucks represented by HHDT-T7 (heavy-heavy duty DSL haul truck)

Water Haul trucks represented by HHDT-T7 (heavy-heavy duty DSL haul truck)

LDA (light duty automobile for worker vehicles)

LDT1 (light duty truck 1 for worker vehicles)

LDT2 (light duty truck 2 for worker vehicles)

Worker vehicles represented as 50% LDT, 25% LHT1, and 25% LDT2

Construction Vehicle (Derived from the CalEEMod model output)

Fuel Consumption for Haul Trucks (DSL HHDT)

Construction Activity	No Haul Truck Trips/day (Soil+Asphalt)	Trip Length	Number of Days	VMT (miles)	DSL Fuel (gallons)
Willard Street	5	30	2	300	50
Hodcock Street	5	30	2	300	50
Winchester Road	12	30	2	720	120
Total	22			1320	221

Fuel Consumption for Water Haul Trucks (DSL HHDT)

Construction Activity	Water Trucks Trips/day	Duration (days)	Trip Length (miles)	VMT (miles)	Fuel (miles/gallon)	DSL Fuel (gallons)
Willard Street	5	30	8	1200	6.0	201
Hodcock Street	5	30	8	1200	6.0	201
Winchester Road	5	30	8	1200	6.0	201
Total						602

Fuel Consumption for Worker Vehicles (represented as LDT1 50%, LDT2 50%)

Activity	No Worker Vehicles Trips	Duration (days)	Trip Length (miles)	VMT (miles)	Fuel (miles/gallon)	Gas Fuel (gallons)
Willard Street	90	30	20	54000	23	2338
Hodcock Street	90	30	20	54000	23	2338
Winchester Road	100	30	20	60000	23	2598
Total						7274

Summary	Gallons
Total - DSL	822
Total - GAS	7274
	8096

Road Construction Emissions Model, Version 9.0.0

Daily Emission Estimates for -> No Worries RV and Boat Storage Project - Willard Street														
Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.79	6.33	8.64	3.04	0.36	2.68	0.87	0.32	0.56	0.02	1,583.74	0.42	0.04	1,606.00
Grading/Excavation	4.29	38.35	45.28	4.61	1.93	2.68	2.29	1.73	0.56	0.09	8,262.89	2.46	0.11	8,356.27
Drainage/Utilities/Sub-Grade	3.65	33.04	36.94	4.28	1.60	2.68	2.03	1.48	0.56	0.07	6,791.60	1.57	0.09	6,857.42
Paving	1.41	17.07	14.87	0.78	0.78	0.00	0.67	0.67	0.00	0.03	3,308.19	0.73	0.15	3,370.08
Maximum (pounds/day)	4.29	38.35	45.28	4.61	1.93	2.68	2.29	1.73	0.56	0.09	8,262.89	2.46	0.15	8,356.27
Total (tons/construction project)	0.05	0.45	0.51	0.06	0.02	0.03	0.03	0.02	0.01	0.00	95.05	0.03	0.00	96.13

Notes:
 Project Start Year -> 2022
 Project Length (months) -> 1
 Total Project Area (acres) -> 0
 Maximum Area Disturbed/Day (acres) -> 0
 Water Truck Used? -> Yes

Phase	Total Material Imported/Exported Volume (yd ³ /day)		Daily VMT (miles/day)			
	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	160	40
Grading/Excavation	0	0	0	0	680	40
Drainage/Utilities/Sub-Grade	0	0	0	0	560	40
Paving	0	0	0	150	400	40

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> No Worries RV and Boat Storage Project - Willard Street														
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.38	0.00	0.00	2.19
Grading/Excavation	0.03	0.23	0.27	0.03	0.01	0.02	0.01	0.01	0.00	0.00	49.58	0.01	0.00	45.48
Drainage/Utilities/Sub-Grade	0.02	0.17	0.19	0.02	0.01	0.01	0.01	0.01	0.00	0.00	35.66	0.01	0.00	32.66
Paving	0.00	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.44	0.00	0.00	6.88
Maximum (tons/phase)	0.03	0.23	0.27	0.03	0.01	0.02	0.01	0.01	0.00	0.00	49.58	0.01	0.00	45.48
Total (tons/construction project)	0.05	0.45	0.51	0.06	0.02	0.03	0.03	0.02	0.01	0.00	95.05	0.03	0.00	87.21

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

No Worries RV and Boat Storage Project
Offsite Roadway Improvements

Roadway Willard Road

Activity	Grading and Paving	
	Length:	333 ft or 0.063068 mile
	Area	11655 ft ² or 0.267562 acres
	Duration	1 month
		7 days/week of 30 days
	Water Trucks	1
	Asphalt delivery trucks	
	Amount of asphalt	215.8333 cubic yards @ 0.5 feet thickness
	Weight of asphalt	2.03 tons/cubic yard
	Total Weight	438.1417 tons
	Truck Capacity:	20 tons
	Number of Trucks	22
	Number of delivery days	4.5 see Calculated months in Roadway Model (0.15 months @ 30 days/month)
	Truck Round Trips/day	5

Road Construction Emissions Model, Version 9.0.0

Daily Emission Estimates for -> No Worries RV and Boat Storage Project - Haddock Street														
Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.79	6.33	8.64	3.16	0.36	2.80	0.90	0.32	0.58	0.02	1,583.74	0.42	0.04	1,606.00
Grading/Excavation	4.29	38.35	45.28	4.73	1.93	2.80	2.32	1.73	0.58	0.09	8,262.89	2.46	0.11	8,356.27
Drainage/Utilities/Sub-Grade	3.65	33.04	36.94	4.40	1.60	2.80	2.06	1.48	0.58	0.07	6,791.60	1.57	0.09	6,857.42
Paving	1.41	17.07	14.87	0.78	0.78	0.00	0.67	0.67	0.00	0.03	3,308.19	0.73	0.15	3,370.08
Maximum (pounds/day)	4.29	38.35	45.28	4.73	1.93	2.80	2.32	1.73	0.58	0.09	8,262.89	2.46	0.15	8,356.27
Total (tons/construction project)	0.05	0.45	0.51	0.06	0.02	0.04	0.03	0.02	0.01	0.00	95.05	0.03	0.00	96.13

Notes:
 Project Start Year -> 2022
 Project Length (months) -> 1
 Total Project Area (acres) -> 0
 Maximum Area Disturbed/Day (acres) -> 0
 Water Truck Used? -> Yes

Phase	Total Material Imported/Exported Volume (yd ³ /day)		Daily VMT (miles/day)			
	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	160	40
Grading/Excavation	0	0	0	0	680	40
Drainage/Utilities/Sub-Grade	0	0	0	0	560	40
Paving	0	0	0	150	400	40

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.
 Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.
 CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> No Worries RV and Boat Storage Project - Haddock Street														
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.38	0.00	0.00	2.19
Grading/Excavation	0.03	0.23	0.27	0.03	0.01	0.02	0.01	0.01	0.00	0.00	49.58	0.01	0.00	45.48
Drainage/Utilities/Sub-Grade	0.02	0.17	0.19	0.02	0.01	0.01	0.01	0.01	0.00	0.00	35.66	0.01	0.00	32.66
Paving	0.00	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.44	0.00	0.00	6.88
Maximum (tons/phase)	0.03	0.23	0.27	0.03	0.01	0.02	0.01	0.01	0.00	0.00	49.58	0.01	0.00	45.48
Total (tons/construction project)	0.05	0.45	0.51	0.06	0.02	0.04	0.03	0.02	0.01	0.00	95.05	0.03	0.00	87.21

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.
 Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.
 CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.
 The CO2e emissions are reported as metric tons per phase.

No Worries RV and Boat Storage Project
Offsite Roadway Improvements

Roadway Haddock Street

Activity	Grading and Paving	
	Length:	350 ft or 0.066288 mile
	Area	12250 ft ² or 0.281221 acres
	Duration	1 month
		7 days/week of 30 days
	Water Trucks	1
	Asphalt delivery trucks	
	Amount of asphalt	226.8519 cubic yards @ 0.5 feet thickness
	Weight of asphalt	2.03 tons/cubic yard
	Total Weight	460.5093 tons
	Truck Capacity:	20 tons
	Number of Trucks	23
	Number of delivery days	4.5 see Calculated months in Roadway Model (0.15 months @ 30 days/month)
	Truck Round Trips/day	5

Road Construction Emissions Model, Version 9.0.0

Daily Emission Estimates for -> No Worries RV and Boat Storage Project - Winchester Road														
Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.86	6.73	9.01	6.77	0.37	6.40	1.66	0.33	1.33	0.02	1,662.36	0.42	0.04	1,685.11
Grading/Excavation	4.35	38.76	45.65	8.34	1.94	6.40	3.08	1.75	1.33	0.09	8,341.50	2.47	0.11	8,435.39
Drainage/Utilities/Sub-Grade	3.72	33.45	37.31	8.02	1.62	6.40	2.82	1.49	1.33	0.07	6,870.22	1.57	0.09	6,936.53
Paving	1.56	17.88	17.49	0.87	0.87	0.00	0.73	0.73	0.00	0.04	4,246.57	0.74	0.28	4,348.20
Maximum (pounds/day)	4.35	38.76	45.65	8.34	1.94	6.40	3.08	1.75	1.33	0.09	8,341.50	2.47	0.28	8,435.39
Total (tons/construction project)	0.05	0.46	0.52	0.10	0.02	0.08	0.04	0.02	0.02	0.00	98.17	0.03	0.00	99.34

Notes:
 Project Start Year -> 2022
 Project Length (months) -> 1
 Total Project Area (acres) -> 1
 Maximum Area Disturbed/Day (acres) -> 1
 Water Truck Used? -> Yes

Phase	Total Material Imported/Exported Volume (yd ³ /day)		Daily VMT (miles/day)			
	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	0	0	0	0	200	40
Grading/Excavation	0	0	0	0	720	40
Drainage/Utilities/Sub-Grade	0	0	0	0	600	40
Paving	0	0	0	360	480	40

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> No Worries RV and Boat Storage Project - Winchester Road														
Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	2.49	0.00	0.00	2.29
Grading/Excavation	0.03	0.23	0.27	0.05	0.01	0.04	0.02	0.01	0.01	0.00	50.05	0.01	0.00	45.92
Drainage/Utilities/Sub-Grade	0.02	0.18	0.20	0.04	0.01	0.03	0.01	0.01	0.01	0.00	36.07	0.01	0.00	33.04
Paving	0.00	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.55	0.00	0.00	8.88
Maximum (tons/phase)	0.03	0.23	0.27	0.05	0.01	0.04	0.02	0.01	0.01	0.00	50.05	0.01	0.00	45.92
Total (tons/construction project)	0.05	0.46	0.52	0.10	0.02	0.08	0.04	0.02	0.02	0.00	98.17	0.03	0.00	90.12

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

No Worries RV and Boat Storage Project
Offsite Roadway Improvements

Roadway Winchester Road

Activity	Grading and Paving	
	Length:	504 ft or 0.095455 mile
	Area	27720 ft ² or 0.636364 acres
	Duration	1 month
		7 days/week of 30 days
	Water Trucks	1
	Asphalt delivery trucks	
	Amount of asphalt	513.3333 cubic yards @ 0.5 feet thickness
	Weight of asphalt	2.03 tons/cubic yard
	Total Weight	1042.067 tons
	Truck Capacity:	20 tons
	Number of Trucks	52
	Number of delivery days	4.5 see Calculated months in Roadway Model (0.15 months @ 30 days/month)
	Truck Round Trips/day	12

No Worries RV and Boat Storage Project

Estimation of Operational Vehicle Fuel Use

Annual Operational VMT **470772 miles per year**

Vehicle Class	Fleet Mix	%GAS	%DSL	Annual VMT-GAS (miles/year)	Annual VMT-DSL (miles/year)	Fuel Rate -GAS (miles/gallon)	Fuel Rate -DSL (miles/gallon)	Annual Fuel Use -GAS (gallons/year)	Annual Fuel Use -DSL (gallons/year)
LDA	0.5350	99.7%	0.3%	251,083	780	28.6	42.3	8788.6	18
LDT1	0.0560	100.0%	0.0%	26,356	7	23.7	24.5	1113.2	0
LDT2	0.1730	99.7%	0.3%	81,189	254	23.0	31.3	3536.3	8
MDV	0.1410	2.2%	97.8%	1,442	64,936	41.4	18.6	34.8	3,489
LHDT1	0.0270	53.3%	46.7%	6,771	5,940	12.8	20.4	528.5	291
LHDT2	0.0070	26.1%	73.9%	861	2,435	11.6	16.9	74.0	144
MHDT	0.0110	99.9%	0.1%	5,174	4	8.9	3.6	579.7	1
HHDT	0.0190	99.2%	0.8%	8,877	68	6.0	5.0	1483.3	14
OBUS	0.0006	47.6%	52.4%	134	148	7.8	8.7	17.3	17
UBUS	0.0003	36.9%	63.1%	52	89	7.3	5.6	7.1	16
MCY	0.0240	100.0%	0.0%	11,299	-	23.0	-	490.7	-
SBUS	0.0010	0.1%	99.9%	0	470	11.3	4.9	0.0	96
MH	0.0050	100.0%	0.0%	2,354	-	4.9	10.4	482.1	-
Total	100.0%			395,593	75,132			17135.7	4,095
Total					470,725				
Fuel-GAS	17,136	gallons/year							
FuelTotal-DSL	4,095	gallons/year							
	21,230								
VMT - GAS	395,593	miles/year							
VMT - DSL	75,132	miles/year							
	470,725	miles/year							

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

NO Worries RV and Boat Storage Project - Construction

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	1.20	1000sqft	0.03	1,200.00	0
Other Asphalt Surfaces	1.51	Acre	1.51	65,775.60	0
Parking Lot	1.71	Acre	1.71	74,487.60	0
City Park	0.28	Acre	0.28	12,066.12	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/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - .

Construction Phase - Default scheduled scaled to match assumed 6-month construction schedule

Off-road Equipment - Max allowed daily construction hours by Riverside County Code Section 9.52.020

Off-road Equipment - Max allowed daily construction hours by Riverside County Code Section 9.52.020

Off-road Equipment - Max allowed daily construction hours by Riverside County Code Section 9.52.020

Off-road Equipment - Max allowed daily construction hours by Riverside County Code Section 9.52.020

Off-road Equipment - Max allowed daily construction hours by Riverside County Code Section 9.52.020

Grading - Total of 2,400 cu soils to be exported
 No Worries RV and Boat Storage Project
 Data Attachment

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Trips - .Trip rate is equivalent to 106 daily trips for a 2.34TSF building

Construction Off-road Equipment Mitigation - Fugitive Dust reflect compliance with SCAQMD Rule 403 Fugitive Dust.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	125.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblGrading	MaterialExported	0.00	2,400.00
tblLandUse	LandUseSquareFeet	12,196.80	12,066.12
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	1.99	79.10
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	5.00	79.10
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	4.96	79.10

2.0 Emissions Summary

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2022	3.2411	33.1295	20.4154	0.0527	19.8582	1.6136	21.4718	10.1558	1.4845	11.6403	0.0000	5,327.147 1	5,327.147 1	1.1968	0.3661	5,460.351 8
Maximum	3.2411	33.1295	20.4154	0.0527	19.8582	1.6136	21.4718	10.1558	1.4845	11.6403	0.0000	5,327.147 1	5,327.147 1	1.1968	0.3661	5,460.351 8

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					
2022	3.2411	33.1295	20.4154	0.0527	7.8674	1.6136	9.4810	3.9933	1.4845	5.4778	0.0000	5,327.147 1	5,327.147 1	1.1968	0.3661	5,460.351 8
Maximum	3.2411	33.1295	20.4154	0.0527	7.8674	1.6136	9.4810	3.9933	1.4845	5.4778	0.0000	5,327.147 1	5,327.147 1	1.1968	0.3661	5,460.351 8

	ROG	NOx	CO	SO2	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	60.38	0.00	55.84	60.68	0.00	52.94	0.00	0.00	0.00	0.00	0.00	0.00

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0882	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003
Energy	1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791
Mobile	0.3460	0.5081	3.8046	8.9500e-003	0.8882	6.7900e-003	0.8950	0.2370	6.3600e-003	0.2433		911.2154	911.2154	0.0411	0.0404	924.2847
Total	0.4353	0.5185	3.8138	9.0100e-003	0.8882	7.5800e-003	0.8958	0.2370	7.1500e-003	0.2441		923.7212	923.7212	0.0414	0.0406	936.8649

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	0.0882	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003
Energy	1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791
Mobile	0.3460	0.5081	3.8046	8.9500e-003	0.8882	6.7900e-003	0.8950	0.2370	6.3600e-003	0.2433		911.2154	911.2154	0.0411	0.0404	924.2847
Total	0.4353	0.5185	3.8138	9.0100e-003	0.8882	7.5800e-003	0.8958	0.2370	7.1500e-003	0.2441		923.7212	923.7212	0.0414	0.0406	936.8649

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	4/1/2022	4/5/2022	7	5	
2	Grading	Grading	4/6/2022	4/13/2022	7	8	
3	Building Construction	Building Construction	4/14/2022	8/16/2022	7	125	
4	Paving	Paving	8/17/2022	9/3/2022	7	18	
5	Architectural Coating	Architectural Coating	9/4/2022	9/21/2022	7	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 3.22

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,016; Non-Residential Outdoor: 672; Striped Parking Area: 8,416 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	300.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	65.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 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					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.0619	3,686.0619	1.1922		3,715.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0709	0.0460	0.7176	1.8300e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		186.0370	186.0370	4.6100e-003	4.5800e-003	187.5158
Total	0.0709	0.0460	0.7176	1.8300e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		186.0370	186.0370	4.6100e-003	4.5800e-003	187.5158

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	7.6662	1.6126	9.2788	3.9400	1.4836	5.4235	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0709	0.0460	0.7176	1.8300e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		186.0370	186.0370	4.6100e-003	4.5800e-003	187.5158
Total	0.0709	0.0460	0.7176	1.8300e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		186.0370	186.0370	4.6100e-003	4.5800e-003	187.5158

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 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					
Fugitive Dust					7.1206	0.0000	7.1206	3.4305	0.0000	3.4305			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	7.1206	0.9409	8.0614	3.4305	0.8656	4.2961		2,872.046 4	2,872.046 4	0.9289		2,895.268 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1186	4.7893	1.0650	0.0216	0.6564	0.0557	0.7120	0.1799	0.0533	0.2332		2,300.069 8	2,300.069 8	0.0311	0.3623	2,408.820 3
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632
Total	0.1777	4.8276	1.6630	0.0231	0.8240	0.0565	0.8805	0.2244	0.0540	0.2784		2,455.100 6	2,455.100 6	0.0350	0.3661	2,565.083 4

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7770	0.0000	2.7770	1.3379	0.0000	1.3379			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	2.7770	0.9409	3.7179	1.3379	0.8656	2.2035	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1186	4.7893	1.0650	0.0216	0.6564	0.0557	0.7120	0.1799	0.0533	0.2332		2,300.069 8	2,300.069 8	0.0311	0.3623	2,408.820 3
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0591	0.0383	0.5980	1.5200e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		155.0309	155.0309	3.8400e-003	3.8100e-003	156.2632
Total	0.1777	4.8276	1.6630	0.0231	0.8240	0.0565	0.8805	0.2244	0.0540	0.2784		2,455.100 6	2,455.100 6	0.0350	0.3661	2,565.083 4

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0407	1.0572	0.3676	4.5500e-003	0.1601	0.0152	0.1754	0.0461	0.0146	0.0607		482.3633	482.3633	5.1000e-003	0.0715	503.8076
Worker	0.2562	0.1660	2.5913	6.6000e-003	0.7266	3.6200e-003	0.7302	0.1927	3.3300e-003	0.1960		671.8004	671.8004	0.0166	0.0165	677.1403
Total	0.2968	1.2232	2.9589	0.0112	0.8867	0.0189	0.9055	0.2388	0.0179	0.2567		1,154.1638	1,154.1638	0.0217	0.0881	1,180.9480

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0407	1.0572	0.3676	4.5500e-003	0.1601	0.0152	0.1754	0.0461	0.0146	0.0607		482.3633	482.3633	5.1000e-003	0.0715	503.8076
Worker	0.2562	0.1660	2.5913	6.6000e-003	0.7266	3.6200e-003	0.7302	0.1927	3.3300e-003	0.1960		671.8004	671.8004	0.0166	0.0165	677.1403
Total	0.2968	1.2232	2.9589	0.0112	0.8867	0.0189	0.9055	0.2388	0.0179	0.2567		1,154.1638	1,154.1638	0.0217	0.0881	1,180.9480

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.1781	11.4380	14.5514	0.0226		0.5869	0.5869		0.5423	0.5423		2,154.6739	2,154.6739	0.6747		2,171.5409
Paving	0.4687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6468	11.4380	14.5514	0.0226		0.5869	0.5869		0.5423	0.5423		2,154.6739	2,154.6739	0.6747		2,171.5409

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0788	0.0511	0.7973	2.0300e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0300e-003	0.0603		206.7078	206.7078	5.1200e-003	5.0800e-003	208.3509
Total	0.0788	0.0511	0.7973	2.0300e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0300e-003	0.0603		206.7078	206.7078	5.1200e-003	5.0800e-003	208.3509

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1781	11.4380	14.5514	0.0226		0.5869	0.5869		0.5423	0.5423	0.0000	2,154.673 9	2,154.673 9	0.6747		2,171.540 9
Paving	0.4687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6468	11.4380	14.5514	0.0226		0.5869	0.5869		0.5423	0.5423	0.0000	2,154.673 9	2,154.673 9	0.6747		2,171.540 9

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0788	0.0511	0.7973	2.0300e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0300e-003	0.0603		206.7078	206.7078	5.1200e-003	5.0800e-003	208.3509
Total	0.0788	0.0511	0.7973	2.0300e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0300e-003	0.0603		206.7078	206.7078	5.1200e-003	5.0800e-003	208.3509

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	2.8593					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	3.1320	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0512	0.0332	0.5183	1.3200e-003	0.1453	7.2000e-004	0.1460	0.0385	6.7000e-004	0.0392		134.3601	134.3601	3.3300e-003	3.3000e-003	135.4281
Total	0.0512	0.0332	0.5183	1.3200e-003	0.1453	7.2000e-004	0.1460	0.0385	6.7000e-004	0.0392		134.3601	134.3601	3.3300e-003	3.3000e-003	135.4281

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.8593					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	3.1320	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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0512	0.0332	0.5183	1.3200e-003	0.1453	7.2000e-004	0.1460	0.0385	6.7000e-004	0.0392		134.3601	134.3601	3.3300e-003	3.3000e-003	135.4281
Total	0.0512	0.0332	0.5183	1.3200e-003	0.1453	7.2000e-004	0.1460	0.0385	6.7000e-004	0.0392		134.3601	134.3601	3.3300e-003	3.3000e-003	135.4281

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3460	0.5081	3.8046	8.9500e-003	0.8882	6.7900e-003	0.8950	0.2370	6.3600e-003	0.2433		911.2154	911.2154	0.0411	0.0404	924.2847
Unmitigated	0.3460	0.5081	3.8046	8.9500e-003	0.8882	6.7900e-003	0.8950	0.2370	6.3600e-003	0.2433		911.2154	911.2154	0.0411	0.0404	924.2847

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	94.92	94.92	94.92	420,332	420,332
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	94.92	94.92	94.92	420,332	420,332

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	0.00	0.00	6.90	0.00	0.00	0.00	0	0	0

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	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
City Park	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
General Light Industry	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Other Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Parking Lot	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791
NaturalGas Unmitigated	1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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	106.29	1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791
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
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		1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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	0.10629	1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791
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
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		1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791

6.0 Area Detail

6.1 Mitigation Measures Area

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0882	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003
Unmitigated	0.0882	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0741					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003
Total	0.0882	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0741					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003
Total	0.0882	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003

7.0 Water Detail

7.1 Mitigation Measures Water

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

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
----------------	--------

11.0 Vegetation

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

NO Worries RV and Boat Storage Project - Construction

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	1.20	1000sqft	0.03	1,200.00	0
Other Asphalt Surfaces	1.51	Acre	1.51	65,775.60	0
Parking Lot	1.71	Acre	1.71	74,487.60	0
City Park	0.28	Acre	0.28	12,066.12	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/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - .

Construction Phase - Default scheduled scaled to match assumed 6-month construction schedule

Off-road Equipment - Max allowed daily construction hours by Riverside County Code Section 9.52.020

Off-road Equipment - Max allowed daily construction hours by Riverside County Code Section 9.52.020

Off-road Equipment - Max allowed daily construction hours by Riverside County Code Section 9.52.020

Off-road Equipment - Max allowed daily construction hours by Riverside County Code Section 9.52.020

Off-road Equipment - Max allowed daily construction hours by Riverside County Code Section 9.52.020

Grading - Total of 2,400 cu soils to be exported
 No Worries RV and Boat Storage Project
 Data Attachment

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Trips - .Trip rate is equivalent to 106 daily trips for a 2.34TSF building

Construction Off-road Equipment Mitigation - Fugitive Dust reflect compliance with SCAQMD Rule 403 Fugitive Dust.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	125.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblGrading	MaterialExported	0.00	2,400.00
tblLandUse	LandUseSquareFeet	12,196.80	12,066.12
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	1.99	79.10
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	5.00	79.10
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	4.96	79.10

2.0 Emissions Summary

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2022	3.2364	33.1312	20.2793	0.0526	19.8582	1.6136	21.4718	10.1558	1.4845	11.6403	0.0000	5,314.298 2	5,314.298 2	1.1967	0.3665	5,447.605 6
Maximum	3.2364	33.1312	20.2793	0.0526	19.8582	1.6136	21.4718	10.1558	1.4845	11.6403	0.0000	5,314.298 2	5,314.298 2	1.1967	0.3665	5,447.605 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					
2022	3.2364	33.1312	20.2793	0.0526	7.8674	1.6136	9.4810	3.9933	1.4845	5.4778	0.0000	5,314.298 2	5,314.298 2	1.1967	0.3665	5,447.605 6
Maximum	3.2364	33.1312	20.2793	0.0526	7.8674	1.6136	9.4810	3.9933	1.4845	5.4778	0.0000	5,314.298 2	5,314.298 2	1.1967	0.3665	5,447.605 6

	ROG	NOx	CO	SO2	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	60.38	0.00	55.84	60.68	0.00	52.94	0.00	0.00	0.00	0.00	0.00	0.00

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0882	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003
Energy	1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791
Mobile	0.2998	0.5385	3.3205	8.3000e-003	0.8882	6.7900e-003	0.8950	0.2370	6.3700e-003	0.2434		845.6751	845.6751	0.0416	0.0412	859.0064
Total	0.3892	0.5489	3.3298	8.3600e-003	0.8882	7.5800e-003	0.8958	0.2370	7.1600e-003	0.2441		858.1808	858.1808	0.0419	0.0415	871.5866

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	0.0882	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003
Energy	1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791
Mobile	0.2998	0.5385	3.3205	8.3000e-003	0.8882	6.7900e-003	0.8950	0.2370	6.3700e-003	0.2434		845.6751	845.6751	0.0416	0.0412	859.0064
Total	0.3892	0.5489	3.3298	8.3600e-003	0.8882	7.5800e-003	0.8958	0.2370	7.1600e-003	0.2441		858.1808	858.1808	0.0419	0.0415	871.5866

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	4/1/2022	4/5/2022	7	5	
2	Grading	Grading	4/6/2022	4/13/2022	7	8	
3	Building Construction	Building Construction	4/14/2022	8/16/2022	7	125	
4	Paving	Paving	8/17/2022	9/3/2022	7	18	
5	Architectural Coating	Architectural Coating	9/4/2022	9/21/2022	7	18	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 3.22

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,016; Non-Residential Outdoor: 672; Striped Parking Area: 8,416 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	300.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	65.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 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					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.0619	3,686.0619	1.1922		3,715.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0663	0.0477	0.5816	1.6600e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		168.5113	168.5113	4.5800e-003	4.6800e-003	170.0216
Total	0.0663	0.0477	0.5816	1.6600e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		168.5113	168.5113	4.5800e-003	4.6800e-003	170.0216

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	7.6662	1.6126	9.2788	3.9400	1.4836	5.4235	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0663	0.0477	0.5816	1.6600e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		168.5113	168.5113	4.5800e-003	4.6800e-003	170.0216
Total	0.0663	0.0477	0.5816	1.6600e-003	0.2012	1.0000e-003	0.2022	0.0534	9.2000e-004	0.0543		168.5113	168.5113	4.5800e-003	4.6800e-003	170.0216

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 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					
Fugitive Dust					7.1206	0.0000	7.1206	3.4305	0.0000	3.4305			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	7.1206	0.9409	8.0614	3.4305	0.8656	4.2961		2,872.0464	2,872.0464	0.9289		2,895.2684

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1129	5.0516	1.0943	0.0216	0.6564	0.0557	0.7121	0.1799	0.0533	0.2333		2,301.8257	2,301.8257	0.0308	0.3626	2,410.6526
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847
Total	0.1682	5.0914	1.5789	0.0230	0.8240	0.0566	0.8806	0.2244	0.0541	0.2785		2,442.2518	2,442.2518	0.0347	0.3665	2,552.3372

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7770	0.0000	2.7770	1.3379	0.0000	1.3379			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	2.7770	0.9409	3.7179	1.3379	0.8656	2.2035	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1129	5.0516	1.0943	0.0216	0.6564	0.0557	0.7121	0.1799	0.0533	0.2333		2,301.825 7	2,301.825 7	0.0308	0.3626	2,410.652 6
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0552	0.0398	0.4846	1.3800e-003	0.1677	8.4000e-004	0.1685	0.0445	7.7000e-004	0.0452		140.4261	140.4261	3.8100e-003	3.9000e-003	141.6847
Total	0.1682	5.0914	1.5789	0.0230	0.8240	0.0566	0.8806	0.2244	0.0541	0.2785		2,442.251 8	2,442.251 8	0.0347	0.3665	2,552.337 2

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0389	1.1137	0.3817	4.5600e-003	0.1601	0.0153	0.1754	0.0461	0.0146	0.0607		482.8894	482.8894	5.0300e-003	0.0717	504.3717
Worker	0.2393	0.1723	2.1001	5.9800e-003	0.7266	3.6200e-003	0.7302	0.1927	3.3300e-003	0.1960		608.5130	608.5130	0.0165	0.0169	613.9668
Total	0.2782	1.2860	2.4818	0.0105	0.8867	0.0189	0.9056	0.2388	0.0180	0.2568		1,091.4024	1,091.4024	0.0216	0.0886	1,118.3385

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0389	1.1137	0.3817	4.5600e-003	0.1601	0.0153	0.1754	0.0461	0.0146	0.0607		482.8894	482.8894	5.0300e-003	0.0717	504.3717
Worker	0.2393	0.1723	2.1001	5.9800e-003	0.7266	3.6200e-003	0.7302	0.1927	3.3300e-003	0.1960		608.5130	608.5130	0.0165	0.0169	613.9668
Total	0.2782	1.2860	2.4818	0.0105	0.8867	0.0189	0.9056	0.2388	0.0180	0.2568		1,091.4024	1,091.4024	0.0216	0.0886	1,118.3385

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.1781	11.4380	14.5514	0.0226		0.5869	0.5869		0.5423	0.5423		2,154.6739	2,154.6739	0.6747		2,171.5409
Paving	0.4687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6468	11.4380	14.5514	0.0226		0.5869	0.5869		0.5423	0.5423		2,154.6739	2,154.6739	0.6747		2,171.5409

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0736	0.0530	0.6462	1.8400e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0300e-003	0.0603		187.2348	187.2348	5.0800e-003	5.2000e-003	188.9129
Total	0.0736	0.0530	0.6462	1.8400e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0300e-003	0.0603		187.2348	187.2348	5.0800e-003	5.2000e-003	188.9129

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1781	11.4380	14.5514	0.0226		0.5869	0.5869		0.5423	0.5423	0.0000	2,154.673 9	2,154.673 9	0.6747		2,171.540 9
Paving	0.4687					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6468	11.4380	14.5514	0.0226		0.5869	0.5869		0.5423	0.5423	0.0000	2,154.673 9	2,154.673 9	0.6747		2,171.540 9

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0736	0.0530	0.6462	1.8400e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0300e-003	0.0603		187.2348	187.2348	5.0800e-003	5.2000e-003	188.9129
Total	0.0736	0.0530	0.6462	1.8400e-003	0.2236	1.1100e-003	0.2247	0.0593	1.0300e-003	0.0603		187.2348	187.2348	5.0800e-003	5.2000e-003	188.9129

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	2.8593					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	3.1320	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0479	0.0345	0.4200	1.2000e-003	0.1453	7.2000e-004	0.1460	0.0385	6.7000e-004	0.0392		121.7026	121.7026	3.3100e-003	3.3800e-003	122.7934
Total	0.0479	0.0345	0.4200	1.2000e-003	0.1453	7.2000e-004	0.1460	0.0385	6.7000e-004	0.0392		121.7026	121.7026	3.3100e-003	3.3800e-003	122.7934

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.8593					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	3.1320	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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0479	0.0345	0.4200	1.2000e-003	0.1453	7.2000e-004	0.1460	0.0385	6.7000e-004	0.0392		121.7026	121.7026	3.3100e-003	3.3800e-003	122.7934
Total	0.0479	0.0345	0.4200	1.2000e-003	0.1453	7.2000e-004	0.1460	0.0385	6.7000e-004	0.0392		121.7026	121.7026	3.3100e-003	3.3800e-003	122.7934

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2998	0.5385	3.3205	8.3000e-003	0.8882	6.7900e-003	0.8950	0.2370	6.3700e-003	0.2434		845.6751	845.6751	0.0416	0.0412	859.0064
Unmitigated	0.2998	0.5385	3.3205	8.3000e-003	0.8882	6.7900e-003	0.8950	0.2370	6.3700e-003	0.2434		845.6751	845.6751	0.0416	0.0412	859.0064

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	94.92	94.92	94.92	420,332	420,332
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	94.92	94.92	94.92	420,332	420,332

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	0.00	0.00	6.90	0.00	0.00	0.00	0	0	0

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	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
City Park	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
General Light Industry	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Other Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Parking Lot	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791
NaturalGas Unmitigated	1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	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	106.29	1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791
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
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		1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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	0.10629	1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791
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
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		1.1500e-003	0.0104	8.7500e-003	6.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004		12.5048	12.5048	2.4000e-004	2.3000e-004	12.5791

6.0 Area Detail

6.1 Mitigation Measures Area

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0882	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003
Unmitigated	0.0882	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0741					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003
Total	0.0882	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0741					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003
Total	0.0882	0.0000	4.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0300e-003	1.0300e-003	0.0000		1.1000e-003

7.0 Water Detail

7.1 Mitigation Measures Water

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

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

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

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

NO Worries RV and Boat Storage Project - Construction

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	1.20	1000sqft	0.03	1,200.00	0
Other Asphalt Surfaces	1.51	Acre	1.51	65,775.60	0
Parking Lot	1.71	Acre	1.71	74,487.60	0
City Park	0.28	Acre	0.28	12,066.12	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/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - .

Construction Phase - Default scheduled scaled to match assumed 6-month construction schedule

Off-road Equipment - Max allowed daily construction hours by Riverside County Code Section 9.52.020

Off-road Equipment - Max allowed daily construction hours by Riverside County Code Section 9.52.020

Off-road Equipment - Max allowed daily construction hours by Riverside County Code Section 9.52.020

Off-road Equipment - Max allowed daily construction hours by Riverside County Code Section 9.52.020

Off-road Equipment - Max allowed daily construction hours by Riverside County Code Section 9.52.020

Grading - Total of 2,400 cu soils to be exported
 No Worries RV and Boat Storage Project
 Data Attachment

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Vehicle Trips - .Trip rate is equivalent to 106 daily trips for a 2.34TSF building

Construction Off-road Equipment Mitigation - Fugitive Dust reflect compliance with SCAQMD Rule 403 Fugitive Dust.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	230.00	125.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblGrading	MaterialExported	0.00	2,400.00
tblLandUse	LandUseSquareFeet	12,196.80	12,066.12
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	1.99	79.10
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	5.00	79.10
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	4.96	79.10

2.0 Emissions Summary

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2022	0.1907	1.4356	1.5328	3.0500e-003	0.1392	0.0695	0.2087	0.0556	0.0652	0.1207	0.0000	269.1447	269.1447	0.0513	6.4500e-003	272.3483
Maximum	0.1907	1.4356	1.5328	3.0500e-003	0.1392	0.0695	0.2087	0.0556	0.0652	0.1207	0.0000	269.1447	269.1447	0.0513	6.4500e-003	272.3483

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					
2022	0.1907	1.4356	1.5328	3.0500e-003	0.0918	0.0695	0.1613	0.0318	0.0652	0.0969	0.0000	269.1444	269.1444	0.0513	6.4500e-003	272.3481
Maximum	0.1907	1.4356	1.5328	3.0500e-003	0.0918	0.0695	0.1613	0.0318	0.0652	0.0969	0.0000	269.1444	269.1444	0.0513	6.4500e-003	272.3481

	ROG	NOx	CO	SO2	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	34.03	0.00	22.69	42.79	0.00	19.70	0.00	0.00	0.00	0.00	0.00	0.00

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2022	6-30-2022	0.9861	0.9861
2	7-1-2022	9-30-2022	0.6372	0.6372
		Highest	0.9861	0.9861

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	0.0161	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.2000e-004
Energy	2.1000e-004	1.9000e-003	1.6000e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	8.8049	8.8049	6.1000e-004	1.1000e-004	8.8520
Mobile	0.0552	0.0988	0.6264	1.5300e-003	0.1590	1.2300e-003	0.1602	0.0425	1.1600e-003	0.0436	0.0000	141.8616	141.8616	6.8700e-003	6.8500e-003	144.0755
Waste						0.0000	0.0000		0.0000	0.0000	0.3410	0.0000	0.3410	0.0202	0.0000	0.8449
Water						0.0000	0.0000		0.0000	0.0000	0.0983	1.3729	1.4712	0.0102	2.5000e-004	1.8018
Total	0.0715	0.1007	0.6280	1.5400e-003	0.1590	1.3700e-003	0.1604	0.0425	1.3000e-003	0.0438	0.4393	152.0396	152.4789	0.0378	7.2100e-003	155.5742

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0161	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.2000e-004
Energy	2.1000e-004	1.9000e-003	1.6000e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	8.8049	8.8049	6.1000e-004	1.1000e-004	8.8520
Mobile	0.0552	0.0988	0.6264	1.5300e-003	0.1590	1.2300e-003	0.1602	0.0425	1.1600e-003	0.0436	0.0000	141.8616	141.8616	6.8700e-003	6.8500e-003	144.0755
Waste						0.0000	0.0000		0.0000	0.0000	0.3410	0.0000	0.3410	0.0202	0.0000	0.8449
Water						0.0000	0.0000		0.0000	0.0000	0.0983	1.3729	1.4712	0.0102	2.5000e-004	1.8018
Total	0.0715	0.1007	0.6280	1.5400e-003	0.1590	1.3700e-003	0.1604	0.0425	1.3000e-003	0.0438	0.4393	152.0396	152.4789	0.0378	7.2100e-003	155.5742

	ROG	NOx	CO	SO2	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	4/1/2022	4/5/2022	7	5	
2	Grading	Grading	4/6/2022	4/13/2022	7	8	
3	Building No Worries RV and Boat Storage Project	Building Construction	4/14/2022	8/16/2022	7	125	

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4	Paving	Paving	8/17/2022	9/3/2022	7	18
5	Architectural Coating	Architectural Coating	9/4/2022	9/21/2022	7	18

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 3.22

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,016; Non-Residential Outdoor: 672; Striped Parking Area: 8,416 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	8.00	78	0.48

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	6	15.00	0.00	300.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	65.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 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					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9300e-003	0.0827	0.0492	1.0000e-004		4.0300e-003	4.0300e-003		3.7100e-003	3.7100e-003	0.0000	8.3599	8.3599	2.7000e-003	0.0000	8.4274
Total	7.9300e-003	0.0827	0.0492	1.0000e-004	0.0491	4.0300e-003	0.0532	0.0253	3.7100e-003	0.0290	0.0000	8.3599	8.3599	2.7000e-003	0.0000	8.4274

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 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	1.6000e-004	1.2000e-004	1.5300e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3911	0.3911	1.0000e-005	1.0000e-005	0.3946
Total	1.6000e-004	1.2000e-004	1.5300e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3911	0.3911	1.0000e-005	1.0000e-005	0.3946

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0192	0.0000	0.0192	9.8500e-003	0.0000	9.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.9300e-003	0.0827	0.0492	1.0000e-004		4.0300e-003	4.0300e-003		3.7100e-003	3.7100e-003	0.0000	8.3598	8.3598	2.7000e-003	0.0000	8.4274
Total	7.9300e-003	0.0827	0.0492	1.0000e-004	0.0192	4.0300e-003	0.0232	9.8500e-003	3.7100e-003	0.0136	0.0000	8.3598	8.3598	2.7000e-003	0.0000	8.4274

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 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	1.6000e-004	1.2000e-004	1.5300e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3911	0.3911	1.0000e-005	1.0000e-005	0.3946
Total	1.6000e-004	1.2000e-004	1.5300e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3911	0.3911	1.0000e-005	1.0000e-005	0.3946

3.3 Grading - 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					
Fugitive Dust					0.0285	0.0000	0.0285	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7900e-003	0.0834	0.0611	1.2000e-004		3.7600e-003	3.7600e-003		3.4600e-003	3.4600e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062
Total	7.7900e-003	0.0834	0.0611	1.2000e-004	0.0285	3.7600e-003	0.0322	0.0137	3.4600e-003	0.0172	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 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	4.6000e-004	0.0202	4.3100e-003	9.0000e-005	2.5900e-003	2.2000e-004	2.8100e-003	7.1000e-004	2.1000e-004	9.2000e-004	0.0000	8.3490	8.3490	1.1000e-004	1.3200e-003	8.7438
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.6000e-004	2.0400e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5215	0.5215	1.0000e-005	1.0000e-005	0.5261
Total	6.7000e-004	0.0204	6.3500e-003	1.0000e-004	3.2500e-003	2.2000e-004	3.4700e-003	8.9000e-004	2.1000e-004	1.1000e-003	0.0000	8.8705	8.8705	1.2000e-004	1.3300e-003	9.2699

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0111	0.0000	0.0111	5.3500e-003	0.0000	5.3500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7900e-003	0.0834	0.0611	1.2000e-004		3.7600e-003	3.7600e-003		3.4600e-003	3.4600e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062
Total	7.7900e-003	0.0834	0.0611	1.2000e-004	0.0111	3.7600e-003	0.0149	5.3500e-003	3.4600e-003	8.8100e-003	0.0000	10.4219	10.4219	3.3700e-003	0.0000	10.5062

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 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	4.6000e-004	0.0202	4.3100e-003	9.0000e-005	2.5900e-003	2.2000e-004	2.8100e-003	7.1000e-004	2.1000e-004	9.2000e-004	0.0000	8.3490	8.3490	1.1000e-004	1.3200e-003	8.7438
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.6000e-004	2.0400e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5215	0.5215	1.0000e-005	1.0000e-005	0.5261
Total	6.7000e-004	0.0204	6.3500e-003	1.0000e-004	3.2500e-003	2.2000e-004	3.4700e-003	8.9000e-004	2.1000e-004	1.1000e-003	0.0000	8.8705	8.8705	1.2000e-004	1.3300e-003	9.2699

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	0.1134	1.0479	1.0900	1.8000e-003		0.0540	0.0540		0.0508	0.0508	0.0000	155.1939	155.1939	0.0381	0.0000	156.1451
Total	0.1134	1.0479	1.0900	1.8000e-003		0.0540	0.0540		0.0508	0.0508	0.0000	155.1939	155.1939	0.0381	0.0000	156.1451

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	2.4800e-003	0.0694	0.0234	2.8000e-004	9.8700e-003	9.5000e-004	0.0108	2.8500e-003	9.1000e-004	3.7600e-003	0.0000	27.3621	27.3621	2.9000e-004	4.0600e-003	28.5793
Worker	0.0142	0.0111	0.1384	3.8000e-004	0.0447	2.3000e-004	0.0449	0.0119	2.1000e-004	0.0121	0.0000	35.3079	35.3079	9.4000e-004	9.8000e-004	35.6227
Total	0.0167	0.0804	0.1618	6.6000e-004	0.0545	1.1800e-003	0.0557	0.0147	1.1200e-003	0.0158	0.0000	62.6700	62.6700	1.2300e-003	5.0400e-003	64.2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1134	1.0479	1.0900	1.8000e-003		0.0540	0.0540		0.0508	0.0508	0.0000	155.1937	155.1937	0.0381	0.0000	156.1450
Total	0.1134	1.0479	1.0900	1.8000e-003		0.0540	0.0540		0.0508	0.0508	0.0000	155.1937	155.1937	0.0381	0.0000	156.1450

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	2.4800e-003	0.0694	0.0234	2.8000e-004	9.8700e-003	9.5000e-004	0.0108	2.8500e-003	9.1000e-004	3.7600e-003	0.0000	27.3621	27.3621	2.9000e-004	4.0600e-003	28.5793
Worker	0.0142	0.0111	0.1384	3.8000e-004	0.0447	2.3000e-004	0.0449	0.0119	2.1000e-004	0.0121	0.0000	35.3079	35.3079	9.4000e-004	9.8000e-004	35.6227
Total	0.0167	0.0804	0.1618	6.6000e-004	0.0545	1.1800e-003	0.0557	0.0147	1.1200e-003	0.0158	0.0000	62.6700	62.6700	1.2300e-003	5.0400e-003	64.2020

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	0.0106	0.1029	0.1310	2.0000e-004		5.2800e-003	5.2800e-003		4.8800e-003	4.8800e-003	0.0000	17.5922	17.5922	5.5100e-003	0.0000	17.7299
Paving	4.2200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0148	0.1029	0.1310	2.0000e-004		5.2800e-003	5.2800e-003		4.8800e-003	4.8800e-003	0.0000	17.5922	17.5922	5.5100e-003	0.0000	17.7299

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	6.3000e-004	4.9000e-004	6.1300e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.3000e-004	0.0000	1.5644	1.5644	4.0000e-005	4.0000e-005	1.5784
Total	6.3000e-004	4.9000e-004	6.1300e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.3000e-004	0.0000	1.5644	1.5644	4.0000e-005	4.0000e-005	1.5784

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0106	0.1029	0.1310	2.0000e-004		5.2800e-003	5.2800e-003		4.8800e-003	4.8800e-003	0.0000	17.5922	17.5922	5.5100e-003	0.0000	17.7299
Paving	4.2200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0148	0.1029	0.1310	2.0000e-004		5.2800e-003	5.2800e-003		4.8800e-003	4.8800e-003	0.0000	17.5922	17.5922	5.5100e-003	0.0000	17.7299

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	6.3000e-004	4.9000e-004	6.1300e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.3000e-004	0.0000	1.5644	1.5644	4.0000e-005	4.0000e-005	1.5784
Total	6.3000e-004	4.9000e-004	6.1300e-003	2.0000e-005	1.9800e-003	1.0000e-005	1.9900e-003	5.3000e-004	1.0000e-005	5.3000e-004	0.0000	1.5644	1.5644	4.0000e-005	4.0000e-005	1.5784

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	0.0257					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4500e-003	0.0169	0.0218	4.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	3.0639	3.0639	2.0000e-004	0.0000	3.0689
Total	0.0282	0.0169	0.0218	4.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	3.0639	3.0639	2.0000e-004	0.0000	3.0689

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	4.1000e-004	3.2000e-004	3.9900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0169	1.0169	3.0000e-005	3.0000e-005	1.0259
Total	4.1000e-004	3.2000e-004	3.9900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0169	1.0169	3.0000e-005	3.0000e-005	1.0259

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0257					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4500e-003	0.0169	0.0218	4.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	3.0639	3.0639	2.0000e-004	0.0000	3.0689
Total	0.0282	0.0169	0.0218	4.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	3.0639	3.0639	2.0000e-004	0.0000	3.0689

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	4.1000e-004	3.2000e-004	3.9900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0169	1.0169	3.0000e-005	3.0000e-005	1.0259
Total	4.1000e-004	3.2000e-004	3.9900e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0169	1.0169	3.0000e-005	3.0000e-005	1.0259

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0552	0.0988	0.6264	1.5300e-003	0.1590	1.2300e-003	0.1602	0.0425	1.1600e-003	0.0436	0.0000	141.8616	141.8616	6.8700e-003	6.8500e-003	144.0755
Unmitigated	0.0552	0.0988	0.6264	1.5300e-003	0.1590	1.2300e-003	0.1602	0.0425	1.1600e-003	0.0436	0.0000	141.8616	141.8616	6.8700e-003	6.8500e-003	144.0755

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	94.92	94.92	94.92	420,332	420,332
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	94.92	94.92	94.92	420,332	420,332

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
General Light Industry	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Other Asphalt Surfaces	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468
Parking Lot	0.534849	0.056022	0.172639	0.141007	0.026597	0.007310	0.011327	0.018693	0.000616	0.000315	0.024057	0.001100	0.005468

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6.7346	6.7346	5.7000e-004	7.0000e-005	6.7694
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6.7346	6.7346	5.7000e-004	7.0000e-005	6.7694
NaturalGas Mitigated	2.1000e-004	1.9000e-003	1.6000e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.0703	2.0703	4.0000e-005	4.0000e-005	2.0826
NaturalGas Unmitigated	2.1000e-004	1.9000e-003	1.6000e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.0703	2.0703	4.0000e-005	4.0000e-005	2.0826

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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	38796	2.1000e-004	1.9000e-003	1.6000e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.0703	2.0703	4.0000e-005	4.0000e-005	2.0826
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
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		2.1000e-004	1.9000e-003	1.6000e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.0703	2.0703	4.0000e-005	4.0000e-005	2.0826

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	38796	2.1000e-004	1.9000e-003	1.6000e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.0703	2.0703	4.0000e-005	4.0000e-005	2.0826
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
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		2.1000e-004	1.9000e-003	1.6000e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	2.0703	2.0703	4.0000e-005	4.0000e-005	2.0826

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	11904	2.1111	1.8000e-004	2.0000e-005	2.1220
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	26070.7	4.6235	3.9000e-004	5.0000e-005	4.6474
Total		6.7346	5.7000e-004	7.0000e-005	6.7694

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	11904	2.1111	1.8000e-004	2.0000e-005	2.1220
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	26070.7	4.6235	3.9000e-004	5.0000e-005	4.6474
Total		6.7346	5.7000e-004	7.0000e-005	6.7694

6.0 Area Detail

6.1 Mitigation Measures Area

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0161	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.2000e-004
Unmitigated	0.0161	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.2000e-004

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	2.5700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.2000e-004
Total	0.0161	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.2000e-004

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.5700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.2000e-004
Total	0.0161	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.2000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.4712	0.0102	2.5000e-004	1.8018
Unmitigated	1.4712	0.0102	2.5000e-004	1.8018

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.333615	0.6573	6.0000e-005	1.0000e-005	0.6607
General Light Industry	0.309875 / 0	0.8139	0.0102	2.5000e-004	1.1411
Other 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		1.4712	0.0102	2.6000e-004	1.8018

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.333615	0.6573	6.0000e-005	1.0000e-005	0.6607
General Light Industry	0.309875 / 0	0.8139	0.0102	2.5000e-004	1.1411
Other 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		1.4712	0.0102	2.6000e-004	1.8018

8.0 Waste Detail

8.1 Mitigation Measures Waste

NO Worries RV and Boat Storage Project - Construction - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.3410	0.0202	0.0000	0.8449
Unmitigated	0.3410	0.0202	0.0000	0.8449

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
General Light Industry	1.66	0.3370	0.0199	0.0000	0.8348
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.3410	0.0202	0.0000	0.8449

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
General Light Industry	1.66	0.3370	0.0199	0.0000	0.8348
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.3410	0.0202	0.0000	0.8449

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

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Equipment Type	Number
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11.0 Vegetation
