



April 13, 2023

Via Email: chi.dang@lacity.org

Chi Dang, City Planner
City of Los Angeles
Department of City Planning

**Subj: Response to Comment Letter on The Parks in L.A. Project
(ENV-2019-2568-SCEA) Dated March 21, 2023 from Lozeau Drury.**

Dear Ms. Dang,

The City received a comment letter dated March 21, 2023 from Lozeau Drury on behalf of Supporters Alliance for Environmental Responsibility (“SAFER”) regarding the Parks in L.A. Project. This letter was delivered to the project team two hours prior to the Planning and Land Use Committee hearing for the project on March 21, 2023, which did not provide time for response from the project team. This letter follows a previous letter sent by the group on December 12, 2022, responded to by Envicom on December 13, 2022.

Response to Comment Letter Overview

The comment letter and the challenges within it are generally incorrect and do not provide substantial evidence that a significant project impact could occur. To challenge a SCEA the challenger must present substantial evidence there may be a significant impact. "Substantial evidence" is defined in Section 15384 of the California Environmental Quality Act (CEQA) guidance as: “enough relevant information and reasonable inferences from this information that a fair argument can be made to support a conclusion, even though other conclusions might also be reached. Whether a fair argument can be made that the project may have a significant effect on the environment is to be determined by examining the whole record before the lead agency. Argument, speculation, unsubstantiated opinion or narrative, evidence which is clearly erroneous or inaccurate, or evidence of social or economic impacts which do not contribute to or are not caused by physical impacts on the environment does not constitute substantial evidence.”

The claims made in the letter from the law firm Lozeau Drury and SAFER are built upon speculation, clearly erroneous and inaccurate evidence, and the mischaracterization of facts. Our responses below demonstrate that nothing provided in the letter amounts to substantial evidence of a significant impact, and no substantive changes to the document are required.

Comments and Responses

The substantive comments and our responses are provided below. The page number the comment can be found on and the leading quote is provided for each.

1. Page 4, “A. The SCEA failed to implement all required mitigation measures.” The letter states that a SCEA “must incorporate all mitigation measures from the Sustainable Communities Strategy.” This is incorrect, as was explained previously in the response to the comment letter dated December 12, 2022. First, there is no requirement from SCAG for a City to implement any of the mitigation measures found in the 2020-2045 RTP/SCS EIR as the City retains discretionary control of what mitigation measures are applied to a project. Second, and more fundamentally, mitigation measures



are incorporated into an environmental document when there are impacts, and where such impacts can be reduced to less than significance with incorporation of the mitigation measure. If there are no significant impacts, no mitigation is necessary. Under CEQA, for any CEQA document, if potential significant impacts are reduced to less than significance through routine application of standard regulatory measures or other means, no mitigation is necessary. A SCEA must only incorporate all *feasible* SCS mitigation measures (PRC section 21155.2(a)). Where a potential significant impact is reduced to less than significance through application of standard compliance measures, or a mitigation measure that is crafted to address the specific conditions of the project, use of a similar SCS mitigation measure is not necessary or appropriate, and thereby not feasible. The letter's claim is baseless.

2. Pages 4 & 5, "B. The SCEA's conclusions regarding the Project's air quality impacts are not supported by substantial evidence."
 - a. "1. The SCEA fails to discuss or mitigate the Project's significant indoor air quality impacts." The letter makes particular claims about indoor air quality and asserts these are CEQA impacts. This is incorrect. Potential health impacts that are not a result of a project's impact on the environment are not within the purview of CEQA. The content and usage of materials and chemicals used in construction are regulated at the Federal and State level. Construction materials that do not pass regulatory requirements are not allowed to be sold. It is not within the purview of CEQA to administrate the California Composite Wood Products Regulation (California CWP Regulation) or US EPA Toxic Substances Control Act Title IV Regulation. Regardless, a project's potential impacts on future tenants is not considered a potential environmental impact under CEQA as future tenants do not constitute "the environment."

It should be noted, however, that the memo from Francis Offerman attached to the comment letter is meritless. It makes several unrealistic assumptions in order to reach its conclusions: It assumes construction materials would not be compliant with the California CWP Regulation or US EPA regulations, which is pure speculation. It assumes formaldehyde emissions would remain constant at a maximum level over a 70 year time period, which is erroneous as it disregards the fact that such emissions decrease over time and research has shown the majority of formaldehyde found in wood products dissipates after two years.¹ The memo also assumes a human breathes 20 cubic meters of air each day, or 5,283 gallons, when according to NASA the figure is approximately 3,000 gallons a day.² Regardless, indoor air quality is not the purview of CEQA and toxins in construction material are regulated by the California CWP Regulation and the US EPA Toxic Substances Control Act Title IV.

- b. "2. The SCEA cannot be relied upon to determine the significance of the Project's air quality impacts because the SCEA's air model underestimated the Project's emissions." The letter states that the project's CalEEMod output files do not match the information provided in the SCEA. This statement is correct. Due to a clerical error the CalEEMod output sheets from a prior air quality study of the project were attached to the current Air Quality and Greenhouse Gas Impact Analysis. The correct 2020 output sheets are attached to this letter for the City's

¹ Park J. and Ikeda R. 2006. Variations of formaldehyde and VOC levels during 3 years in new and older homes. *Indoor Air*. 16:129-135.

CEQA record for this project. The text of the SCEA provided the correct CalEEMod results, and thus correction of the appendix clerical error does not invalidate the SCEA in any way and does not require recirculation per 15073.5 of CEQA. That section indicates recirculation must occur when a document must be substantially revised after notice of its availability but before adoption. A “substantial revision” is defined as (1) A new, avoidable significant effect is identified and mitigation measures or project revisions must be added in order to reduce the effect to insignificance, or (2) The lead agency determines that the proposed mitigation measures or project revisions will not reduce potential effects to less than significance and new measures or revisions must be required. Additionally, recirculation is not required where “[n]ew project revisions are added in response to written or verbal comments on the project’s effects identified in the proposed negative declaration which are not new avoidable significant effects” or where “[n]ew information is added to the negative declaration which merely clarifies, amplifies, or makes insignificant modifications to the negative declaration.” Regarding the additional accusations found on page 6:

- i. “Unsubstantiated Reductions to Acres of Grading Values.” There is no unsubstantiated reduction. When the square-footage and unit size of a project is input into CalEEMod, the program calculates an estimated acreage figure for the size of the project site. This is changed to reflect the actual size of the site. The site is 1.45 acres in size and CalEEMod’s default calculation was changed to reflect that. This is noted in the model as it is not possible to change a CalEEMod default without substantiating the change. This can be plainly seen in the CalEEMod output sheets and the size of the site is well documented in the SCEA. CalEEMod also calculates total grading which is the equivalent number of acres that will be graded on the site accounting for how many total miles the vehicle will travel on site as it makes multiple grading passes. In the attached 2020 output sheets the total acres of grading calculated in 5.45 acres.
 - ii. “Underestimated Number of Saturday and Sunday Vehicle Trips.” The comment deliberately ignores the fact that the project is expected to generate 1,247 new trips per day as credit is provided for trips from the existing uses. CalEEMod outputs were not adjusted because it calculated a higher rate of trips than 1,247 per day and therefore overestimated mobile emissions. It is not necessary to adjust model assumptions or defaults if the model is providing a conservative estimate and no significant impacts result.
 - iii. “Incorrect Trip Purpose Percentages.” The project’s estimated VMT is below the impact threshold of the City, and therefore there are no VMT impacts. CalEEMod’s VMT estimate is used in calculating how many gallons of fuel the project would indirectly consume and thereby how many mobile source GHG emissions it would produce. The project’s VMT calculation of 7,823 miles a day translates to 2,855,395 miles a year. CalEEMod calculated a VMT of 4,867,371 miles annually. This estimate provided a conservative figure and was therefore not changed.
3. Page 7, “C. The SCEA inadequately analyzed the Project’s impact on human health from emissions of diesel particulate matter.” The letter from SWAPE attached as Exhibit B contends that diesel particulate matter (DPM) emissions associated with the project constitute a significant impact. This is based upon the preparation of a “screening-level HRA” which reports cancer risk estimates for

adjoining residents exceeds the maximum incremental cancer risk established by the SCAQMD. These assertions are based upon a gross misrepresentation of facts and regulatory guidance.

First, SWAPE's "screening level" HRA refers to the OEHHA Air Toxics Hot Spots Program guidelines (AB 2588, Connelly, Statutes of 1987; Health and Safety Code Section 44300 et seq.). AB 2588 guidance has no statutory relation to projects prepared under CEQA, however. As reported by the California Air Resources Board (CARB):

The Air Toxics "Hot Spots" Information and Assessment Act (AB2588, 1987, Connelly) was enacted in September 1987. Under this, stationary sources are required to report the types and quantities of certain substances their facilities routinely release into the air. Emissions of interest are those that result from the routine operation of a facility or that are predictable, including but not limited to continuous and intermittent releases and process upsets or leaks.

AB2588 applies to specific commercial and industrial operations that have the potential to generate quantities of criteria and toxic air emissions that could present health risks. Emissions generated from the construction and subsequent occupancy of a residential mixed-use building are not subject to evaluation under AB2588. There are two broad classes of facilities subject to the AB2588 Program: Core facilities and facilities identified within discrete industry-wide source categories. Core facilities subject to AB 2588 compliance are sources whose criteria pollutant emissions (particulate matter, oxides of sulfur, oxides of nitrogen and volatile organic compounds) are 25 tons per year or more as well as those facilities whose criteria pollutant emissions are 10 tons per year or more but less than 25 tons per year. Industry-wide source facilities are classified as smaller operations with relatively similar emission profiles (e.g., auto body shops and gas stations). Residential mixed-use building are not core facilities or classified as stationary operations and as mentioned are not subject to evaluation under AB2588.

SWAPE also cites the SCAQMD regarding preparation of an HRA in a manner consistent with the *AB 2588 and Rule 1402 Supplemental Guidelines (Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and Assessment Act)*. SCAQMD Rule 1402 relates to the control of toxic air contaminants for existing sources, meaning it is only applicable to stationary source operations. Emissions generated by construction and operational sources that do not require permitting are not subject to the above referenced rules and agency regulations.

Additionally, in comments presented to the SCAQMD Governing Board (Meeting Date: June 5, 2015, Agenda No. 28) relating to toxic air contaminant exposures, use of the OEHHA guidelines and their applicability for projects subject to CEQA, as they relate to the incorporation of early-life exposure adjustments, it was reported that:

The Proposed Amended Rules are separate from the CEQA significance thresholds. SCAQMD staff is currently evaluating how to implement the Revised OEHHA Guidelines under CEQA. The SCAQMD staff will evaluate a variety of options on how to evaluate health risks under the Revised OEHHA Guidelines under CEQA. The SCAQMD staff will conduct public workshops to gather input before bringing recommendations to the Governing Board.

Contrary to SWAPE's assertion that guidance exists, the SCAQMD has not conducted public workshops nor developed policy relating to applying the revised OEHHA guidance for projects prepared by other public/lead agencies subject to CEQA.

Second, SWAPE incorporates particulate (PM₁₀) exhaust emissions, as reported in the project's air quality analysis, as a surrogate for DPM to address operational emissions. For this source category CalEEMod estimates are associated with area, energy, and mobile sources. On-site area source emissions include hearths and landscape maintenance equipment. Energy related emissions are associated with natural gas and electricity consumption. None of these sources utilize diesel engines and are therefore not applicable to any estimate of operational DPM. The only diesel sources associated with operational emissions are off-site mobile source emissions. That is, the estimated portion of mobile emissions attributable to diesel vehicles. These emissions are off-site and simply would not be included in an accounting of on-site operational DPM. As such, use of the identified exhaust estimates to address on-site operational emissions is baseless and not supported by the CalEEMod emission inventory.

Third, SWAPE's carcinogenic risk calculations incorrectly assume an exposure frequency of 350 days per year, 24 hours a day. To the contrary, construction of the proposed project is reported to occur for 503 days over a 703-day period (1.92 years) based upon a 5 day per week the exposure frequency would be 261 days per year, 8 hours a day.

Fourth, the AERSCREEN modelling tool is designed to predict "worst-case" one-hour DPM concentration estimates. AERSCREEN can be used to estimate annual emissions, but only from sources that have continuous emissions (i.e., 365 days/24 hours), with the application of a scaling ratio of 0.10 to the one-hour estimate. AERSCREEN cannot be used to estimate annual emissions in any other scenario. It cannot be used to estimate annual emissions of an intermittent source, such as the project's construction activities. The construction operational profile for the proposed project is 5 days per week with emissions generated over an 8-hour period. Applying the scaling ratio of 0.10 to a one-hour estimate of the project produces literally meaningless results.

In summary, the commenter's screening-level HRA misrepresents the project's construction and operational characteristics and cites regulatory guidance that has no applicability to the project. As such, the findings in SWAPE's screening-level HRA significantly overstates carcinogenic risk estimates and the conclusions are without merit and do not constitute substantial evidence.

4. Page 8, "D. The SCEA inadequately analyzed the Project's greenhouse gas impacts." The comment suggests the project violates a GHG bright line threshold that does not exist. There is no bright line threshold for GHG impacts. It is explained in the SCEA that a threshold of 3,000 metric tons of CO₂e a year was suggested by SCAQMD in 2008 but was never adopted. No other threshold for residential or mixed-use projects has ever been adopted. The suggestion that the project violates a bright line threshold is baseless. And as explained in 2.b.iii., above, the GHG estimates for the project are conservative.
5. Page 9, "E. The SCEA inadequately analyzed the Project's noise impacts." The comment alleges insufficiencies in the project noise analysis and claims additional mitigation measures are required, citing a letter from the commenter's own noise expert. The assertions are summarized and responded to below:

April 13, 2023

Letter to Chi Dang, City Planner, City of Los Angeles

Response to Comments, The Parks in LA (*Envicom Project #2022-101-01*)

Page 6 of 8

- a. “The SCEA uses incorrect measurements to establish baseline noise for Project construction and operation”. The commenter takes issue with the 15-minute duration of the noise measurement, but the City of Los Angeles Municipal Code (LAMC) Section 111.01(a) indicates that a 15-minute average is sufficient to establish ambient noise levels. Nighttime noise levels were conservatively based on the City’s relatively low presumed ambient noise levels from the LAMC (i.e., a low ambient level would result in the project’s impact appearing conservatively high in comparison). The noise expert did not provide substantial evidence that the noise measurements are “incorrect”.

- b. “The SCEA fails to adequately analyze the Project’s significant construction noise impacts that exceed criteria thresholds and therefore the mitigation measures included in the SCEA to reduce these impacts may be insufficient.” The commenter states that maximum construction noise levels would exceed LAMC standards, but disregards the project’s noise mitigation measures that would reduce noise impacts. The recommendation of mufflers is questioned, but an attachment to the noise study (Appendix J of the SCEA) demonstrating their effectiveness was provided and the project also includes a mitigation measure (MM NOI-2) providing for barriers that would ensure compliance with the City of Los Angeles Municipal Code. The commenter states that the SCEA should provide substantial evidence that the construction noise barriers are feasible. Noise barriers are commonly used on construction projects. There is nothing new or novel about their utilization. The commenter’s noise expert does not provide any substantial evidence that barriers would not be feasible. The commenter’s noise expert attempts to provide their own noise analysis, which again disregards reductions from the project’s noise mitigation measures and also unrealistically assumes that every piece of equipment for a given phase would operate at the exact same spot at the same time. This assumption is spatially impossible because each piece of equipment must operate at some distance from the others and temporally unrealistic as typical construction programs do not have every piece of equipment on site in use at the same time. The commenter’s noise expert then concludes that their own unrealistically high numbers would excessively increase noise levels but does not cite any established threshold for a noise increase that would be exceeded, while also neglecting to provide the essential context that this increase is only a temporary increase during daytime hours.

- c. “The SCEA’s evaluation of noise impacts from Project operations is incorrect.” While the comment discusses the project operation noise analysis, it is not discussed in the commenter’s attachment from the commenter’s own noise expert. Additionally, land uses of the same type (e.g., residential next to residential) are generally compatible, as they have similar noise sensitivity and operational noise sources, and as such would not typically be expected to result in operational noise impacts. The commenter questions the project’s HVAC noise analysis, specifically the assumptions made and points out minor inconsequential discrepancies. The assumption of a noise reduction from the building parapet rooftop is reasonable and conservative. Small differences in reference levels of the number of units would not substantially change the results, given the relatively low reference noise levels and the logarithmic nature in which noise sources combine. It should be noted that residential HVAC does not typically result in excessive noise levels in a developed, urban area. The commenter states that landscape maintenance noise should have been quantitatively analyzed, based on the commenter’s misunderstanding of LAMC section 112.05(c). The LAMC’s 65 dBA limit is not applicable during daytime hours, which is when landscaping activity would be reasonably expected to occur. The commenter discusses parking ramp noise, but any short-lived instantaneous noise levels from parking would be similar to those already occurring in the

vicinity and would not increase ambient average noise levels due to their short duration. Finally, the commenter does not provide any substantial evidence that operational noise from any of these sources would exceed applicable established noise standards or thresholds. As discussed above, the commenter fails to substantiate claims that the SCEA noise analysis is insufficient and fails to substantiate claims of that additional mitigation measures are needed.

The comments submitted by Lozeau Drury on behalf of SAFER are baseless and without merit.

Sincerely,



Tim Rosenstein
Project Manager

Attachment: CalEEMod 2020.4.0 output sheets dated August 3, 2022

CalEEMod 2020.4.0 Output Sheets
Dated August 3, 2022

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**The Parks in LA Mixed Use Project
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	22.50	1000sqft	0.00	22,500.00	0
Enclosed Parking Structure	283.00	Space	0.00	138,000.00	0
Apartments High Rise	251.00	Dwelling Unit	1.45	231,320.00	718
Regional Shopping Center	18.00	1000sqft	0.00	18,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2025
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	691.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 1.45 ac lot. Apartments - 251 units 231,320sf. Retail - 18,000sf on 1st floor. Office - 22,500sf on 2nd floor. Garage - 283 spaces

Construction Phase - Project data. 7 day prep. 36 day grading. 400 day building. 30 day coating

Off-road Equipment - Project data. Add excavator

Off-road Equipment - Project data. Add Excavator

Off-road Equipment -

Trips and VMT - Project data. 27 mile haul route

Demolition - 1,073 tons debris disposal

Grading - 1.45 ac lot site prep. 58,300 cy export

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Trips - Adjusted per traffic study

Woodstoves - No hearth

Construction Off-road Equipment Mitigation - Rule 403

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	7.00
tblConstructionPhase	NumDays	4.00	36.00
tblConstructionPhase	NumDays	200.00	400.00
tblConstructionPhase	NumDays	10.00	30.00
tblFireplaces	NumberGas	213.35	0.00
tblFireplaces	NumberWood	12.55	0.00
tblGrading	AcresOfGrading	36.00	4.00
tblGrading	AcresOfGrading	6.56	1.45
tblGrading	MaterialExported	0.00	53,300.00
tblLandUse	LandUseSquareFeet	113,200.00	138,000.00
tblLandUse	LandUseSquareFeet	251,000.00	231,320.00
tblLandUse	LotAcreage	0.52	0.00
tblLandUse	LotAcreage	2.55	0.00
tblLandUse	LotAcreage	4.05	1.45
tblLandUse	LotAcreage	0.41	0.00
tblTripsAndVMT	HaulingTripLength	20.00	27.00
tblTripsAndVMT	HaulingTripLength	20.00	27.00
tblTripsAndVMT	HaulingTripNumber	6,663.00	6,662.00
tblVehicleTrips	ST_TR	4.53	4.45
tblVehicleTrips	ST_TR	46.12	15.32
tblVehicleTrips	SU_TR	3.59	4.45
tblVehicleTrips	SU_TR	21.10	15.32
tblVehicleTrips	WD_TR	9.74	8.19

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	37.75	15.32
tblWoodstoves	NumberCatalytic	12.55	0.00
tblWoodstoves	NumberNoncatalytic	12.55	0.00

2.0 Emissions Summary

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2023	2.4520	48.8311	21.8410	0.1715	10.8243	0.8864	11.7107	4.5853	0.8230	5.4083	0.0000	18,505.84 17	18,505.84 17	1.6887	2.5262	19,300.87 90
2024	62.3828	13.8731	21.1436	0.0553	3.1755	0.4777	3.6532	0.8503	0.4602	1.3105	0.0000	5,428.447 5	5,428.447 5	0.4293	0.2172	5,503.896 2
2025	62.3629	1.2442	3.2469	7.3700e-003	0.5589	0.0546	0.6135	0.1482	0.0543	0.2026	0.0000	726.1173	726.1173	0.0258	0.0107	729.9509
Maximum	62.3828	48.8311	21.8410	0.1715	10.8243	0.8864	11.7107	4.5853	0.8230	5.4083	0.0000	18,505.84 17	18,505.84 17	1.6887	2.5262	19,300.87 90

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					
2023	2.4520	48.8311	21.8410	0.1715	7.3552	0.8864	8.2416	2.7437	0.8230	3.5668	0.0000	18,505.84 17	18,505.84 17	1.6887	2.5262	19,300.87 90
2024	62.3828	13.8731	21.1436	0.0553	3.1755	0.4777	3.6532	0.8503	0.4602	1.3105	0.0000	5,428.447 5	5,428.447 5	0.4293	0.2172	5,503.896 2
2025	62.3629	1.2442	3.2469	7.3700e-003	0.5589	0.0546	0.6135	0.1482	0.0543	0.2026	0.0000	726.1173	726.1173	0.0258	0.0107	729.9509
Maximum	62.3828	48.8311	21.8410	0.1715	7.3552	0.8864	8.2416	2.7437	0.8230	3.5668	0.0000	18,505.84 17	18,505.84 17	1.6887	2.5262	19,300.87 90

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	23.83	0.00	21.71	32.98	0.00	26.61	0.00	0.00	0.00	0.00	0.00	0.00

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	6.5650	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149	0.0000	37.3574	37.3574	0.0359	0.0000	38.2547
Energy	0.0746	0.6412	0.3020	4.0700e-003		0.0515	0.0515		0.0515	0.0515		813.2235	813.2235	0.0156	0.0149	818.0561
Mobile	4.3538	4.6742	42.9854	0.0937	10.5420	0.0694	10.6115	2.8082	0.0645	2.8727		9,556.5540	9,556.5540	0.6773	0.4206	9,698.8353
Total	10.9933	5.5541	64.0085	0.0989	10.5420	0.2358	10.7779	2.8082	0.2309	3.0391	0.0000	10,407.1349	10,407.1349	0.7288	0.4355	10,555.1460

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	6.5650	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149	0.0000	37.3574	37.3574	0.0359	0.0000	38.2547
Energy	0.0746	0.6412	0.3020	4.0700e-003		0.0515	0.0515		0.0515	0.0515		813.2235	813.2235	0.0156	0.0149	818.0561
Mobile	4.3538	4.6742	42.9854	0.0937	10.5420	0.0694	10.6115	2.8082	0.0645	2.8727		9,556.5540	9,556.5540	0.6773	0.4206	9,698.8353
Total	10.9933	5.5541	64.0085	0.0989	10.5420	0.2358	10.7779	2.8082	0.2309	3.0391	0.0000	10,407.1349	10,407.1349	0.7288	0.4355	10,555.1460

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	Demolition	Demolition	3/6/2023	3/31/2023	5	20	
2	Site Preparation	Site Preparation	4/1/2023	4/11/2023	5	7	
3	Grading	Grading	4/12/2023	5/31/2023	5	36	
4	Building Construction	Building Construction	6/1/2023	12/11/2024	5	400	
5	Paving	Paving	12/12/2024	12/25/2024	5	10	
6	Architectural Coating	Architectural Coating	12/26/2024	2/5/2025	5	30	

Acres of Grading (Site Preparation Phase): 1.45

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 468,423; Residential Outdoor: 156,141; Non-Residential Indoor: 60,750; Non-Residential Outdoor: 20,250; Striped Parking Area: 8,280 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	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	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	106.00	14.70	6.90	27.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	6,662.00	14.70	6.90	27.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	252.00	56.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water Exposed Area

3.2 Demolition - 2023

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					1.1481	0.0000	1.1481	0.1738	0.0000	0.1738			0.0000			0.0000
Off-Road	1.6612	15.8671	16.7154	0.0293		0.7524	0.7524		0.7025	0.7025		2,824.5015	2,824.5015	0.7510		2,843.2771
Total	1.6612	15.8671	16.7154	0.0293	1.1481	0.7524	1.9005	0.1738	0.7025	0.8763		2,824.5015	2,824.5015	0.7510		2,843.2771

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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	0.0128	0.9389	0.2240	4.1400e-003	0.1252	5.8800e-003	0.1311	0.0343	5.6300e-003	0.0400		455.0035	455.0035	0.0252	0.0723	477.1657
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	0.0516	0.0370	0.4983	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		142.1030	142.1030	3.8300e-003	3.7000e-003	143.3009
Total	0.0644	0.9759	0.7223	5.5500e-003	0.2929	6.8900e-003	0.2998	0.0788	6.5600e-003	0.0853		597.1065	597.1065	0.0290	0.0760	620.4665

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					0.5166	0.0000	0.5166	0.0782	0.0000	0.0782			0.0000			0.0000
Off-Road	1.6612	15.8671	16.7154	0.0293		0.7524	0.7524		0.7025	0.7025	0.0000	2,824.5015	2,824.5015	0.7510		2,843.2770
Total	1.6612	15.8671	16.7154	0.0293	0.5166	0.7524	1.2691	0.0782	0.7025	0.7807	0.0000	2,824.5015	2,824.5015	0.7510		2,843.2770

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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	0.0128	0.9389	0.2240	4.1400e-003	0.1252	5.8800e-003	0.1311	0.0343	5.6300e-003	0.0400		455.0035	455.0035	0.0252	0.0723	477.1657
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	0.0516	0.0370	0.4983	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		142.1030	142.1030	3.8300e-003	3.7000e-003	143.3009
Total	0.0644	0.9759	0.7223	5.5500e-003	0.2929	6.8900e-003	0.2998	0.0788	6.5600e-003	0.0853		597.1065	597.1065	0.0290	0.0760	620.4665

3.3 Site Preparation - 2023

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					5.4890	0.0000	5.4890	2.9202	0.0000	2.9202			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668		1,666.0573	1,666.0573	0.5388		1,679.5282
Total	1.1339	12.4250	6.6420	0.0172	5.4890	0.5074	5.9964	2.9202	0.4668	3.3870		1,666.0573	1,666.0573	0.5388		1,679.5282

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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	0.0275	0.0197	0.2658	7.5000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271
Total	0.0275	0.0197	0.2658	7.5000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271

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					2.4701	0.0000	2.4701	1.3141	0.0000	1.3141			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668	0.0000	1,666.0573	1,666.0573	0.5388		1,679.5282
Total	1.1339	12.4250	6.6420	0.0172	2.4701	0.5074	2.9774	1.3141	0.4668	1.7809	0.0000	1,666.0573	1,666.0573	0.5388		1,679.5282

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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	0.0275	0.0197	0.2658	7.5000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271
Total	0.0275	0.0197	0.2658	7.5000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271

3.4 Grading - 2023

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					6.3074	0.0000	6.3074	3.3483	0.0000	3.3483			0.0000			0.0000
Off-Road	1.5217	16.0163	11.9615	0.0258		0.6802	0.6802		0.6257	0.6257		2,495.7204	2,495.7204	0.8072		2,515.8995
Total	1.5217	16.0163	11.9615	0.0258	6.3074	0.6802	6.9875	3.3483	0.6257	3.9741		2,495.7204	2,495.7204	0.8072		2,515.8995

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

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	0.4461	32.7828	7.8222	0.1445	4.3716	0.2054	4.5770	1.1985	0.1965	1.3949		15,886.9654	15,886.9654	0.8782	2.5230	16,660.7854
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	0.0447	0.0320	0.4318	1.2200e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		123.1560	123.1560	3.3200e-003	3.2000e-003	124.1941
Total	0.4908	32.8148	8.2540	0.1458	4.5169	0.2062	4.7232	1.2370	0.1973	1.4343		16,010.1214	16,010.1214	0.8816	2.5262	16,784.9795

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					2.8383	0.0000	2.8383	1.5067	0.0000	1.5067			0.0000			0.0000
Off-Road	1.5217	16.0163	11.9615	0.0258		0.6802	0.6802		0.6257	0.6257	0.0000	2,495.7204	2,495.7204	0.8072		2,515.8995
Total	1.5217	16.0163	11.9615	0.0258	2.8383	0.6802	3.5185	1.5067	0.6257	2.1325	0.0000	2,495.7204	2,495.7204	0.8072		2,515.8995

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

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	0.4461	32.7828	7.8222	0.1445	4.3716	0.2054	4.5770	1.1985	0.1965	1.3949		15,886.9654	15,886.9654	0.8782	2.5230	16,660.7854
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	0.0447	0.0320	0.4318	1.2200e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		123.1560	123.1560	3.3200e-003	3.2000e-003	124.1941
Total	0.4908	32.8148	8.2540	0.1458	4.5169	0.2062	4.7232	1.2370	0.1973	1.4343		16,010.1214	16,010.1214	0.8816	2.5262	16,784.9795

3.5 Building Construction - 2023

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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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	0.0623	2.2505	0.8589	0.0104	0.3587	0.0109	0.3696	0.1033	0.0104	0.1137		1,123.4737	1,123.4737	0.0374	0.1617	1,172.5902
Worker	0.8665	0.6210	8.3711	0.0236	2.8168	0.0169	2.8337	0.7470	0.0156	0.7626		2,387.3311	2,387.3311	0.0644	0.0621	2,407.4544
Total	0.9287	2.8715	9.2300	0.0341	3.1755	0.0278	3.2033	0.8503	0.0260	0.8763		3,510.8048	3,510.8048	0.1018	0.2238	3,580.0445

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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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	0.0623	2.2505	0.8589	0.0104	0.3587	0.0109	0.3696	0.1033	0.0104	0.1137		1,123.4737	1,123.4737	0.0374	0.1617	1,172.5902
Worker	0.8665	0.6210	8.3711	0.0236	2.8168	0.0169	2.8337	0.7470	0.0156	0.7626		2,387.3311	2,387.3311	0.0644	0.0621	2,407.4544
Total	0.9287	2.8715	9.2300	0.0341	3.1755	0.0278	3.2033	0.8503	0.0260	0.8763		3,510.8048	3,510.8048	0.1018	0.2238	3,580.0445

3.5 Building Construction - 2024

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	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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	0.0602	2.2551	0.8409	0.0103	0.3587	0.0109	0.3697	0.1033	0.0105	0.1138		1,106.640 3	1,106.640 3	0.0376	0.1594	1,155.085 3
Worker	0.8100	0.5542	7.7856	0.0230	2.8168	0.0162	2.8330	0.7470	0.0149	0.7620		2,319.885 8	2,319.885 8	0.0584	0.0578	2,338.554 6
Total	0.8701	2.8092	8.6264	0.0332	3.1755	0.0272	3.2026	0.8503	0.0254	0.8757		3,426.526 0	3,426.526 0	0.0959	0.2172	3,493.640 0

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	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.921 4	2,001.921 4	0.3334		2,010.256 3
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.921 4	2,001.921 4	0.3334		2,010.256 3

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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	0.0602	2.2551	0.8409	0.0103	0.3587	0.0109	0.3697	0.1033	0.0105	0.1138		1,106.640 3	1,106.640 3	0.0376	0.1594	1,155.085 3
Worker	0.8100	0.5542	7.7856	0.0230	2.8168	0.0162	2.8330	0.7470	0.0149	0.7620		2,319.885 8	2,319.885 8	0.0584	0.0578	2,338.554 6
Total	0.8701	2.8092	8.6264	0.0332	3.1755	0.0272	3.2026	0.8503	0.0254	0.8757		3,426.526 0	3,426.526 0	0.0959	0.2172	3,493.640 0

3.6 Paving - 2024

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	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594		1,297.868 8	1,297.868 8	0.4114		1,308.154 7
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594		1,297.868 8	1,297.868 8	0.4114		1,308.154 7

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

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	0.0418	0.0286	0.4016	1.1800e-003	0.1453	8.4000e-004	0.1462	0.0385	7.7000e-004	0.0393		119.6767	119.6767	3.0100e-003	2.9800e-003	120.6397
Total	0.0418	0.0286	0.4016	1.1800e-003	0.1453	8.4000e-004	0.1462	0.0385	7.7000e-004	0.0393		119.6767	119.6767	3.0100e-003	2.9800e-003	120.6397

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	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594	0.0000	1,297.8688	1,297.8688	0.4114		1,308.1547
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594	0.0000	1,297.8688	1,297.8688	0.4114		1,308.1547

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

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	0.0418	0.0286	0.4016	1.1800e-003	0.1453	8.4000e-004	0.1462	0.0385	7.7000e-004	0.0393		119.6767	119.6767	3.0100e-003	2.9800e-003	120.6397
Total	0.0418	0.0286	0.4016	1.1800e-003	0.1453	8.4000e-004	0.1462	0.0385	7.7000e-004	0.0393		119.6767	119.6767	3.0100e-003	2.9800e-003	120.6397

3.7 Architectural Coating - 2024

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	62.0413					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	62.2221	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

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	0.1607	0.1100	1.5448	4.5500e-003	0.5589	3.2200e-003	0.5621	0.1482	2.9600e-003	0.1512		460.2948	460.2948	0.0116	0.0115	463.9989
Total	0.1607	0.1100	1.5448	4.5500e-003	0.5589	3.2200e-003	0.5621	0.1482	2.9600e-003	0.1512		460.2948	460.2948	0.0116	0.0115	463.9989

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	62.0413					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	62.2221	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

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	0.1607	0.1100	1.5448	4.5500e-003	0.5589	3.2200e-003	0.5621	0.1482	2.9600e-003	0.1512		460.2948	460.2948	0.0116	0.0115	463.9989
Total	0.1607	0.1100	1.5448	4.5500e-003	0.5589	3.2200e-003	0.5621	0.1482	2.9600e-003	0.1512		460.2948	460.2948	0.0116	0.0115	463.9989

3.7 Architectural Coating - 2025

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	62.0413					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	62.2122	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2025

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	0.1507	0.0987	1.4378	4.4000e-003	0.5589	3.0600e-003	0.5620	0.1482	2.8200e-003	0.1510		444.6693	444.6693	0.0105	0.0107	448.1191
Total	0.1507	0.0987	1.4378	4.4000e-003	0.5589	3.0600e-003	0.5620	0.1482	2.8200e-003	0.1510		444.6693	444.6693	0.0105	0.0107	448.1191

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	62.0413					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	62.2122	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2025

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	0.1507	0.0987	1.4378	4.4000e-003	0.5589	3.0600e-003	0.5620	0.1482	2.8200e-003	0.1510		444.6693	444.6693	0.0105	0.0107	448.1191
Total	0.1507	0.0987	1.4378	4.4000e-003	0.5589	3.0600e-003	0.5620	0.1482	2.8200e-003	0.1510		444.6693	444.6693	0.0105	0.0107	448.1191

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	4.3538	4.6742	42.9854	0.0937	10.5420	0.0694	10.6115	2.8082	0.0645	2.8727		9,556,554 0	9,556,554 0	0.6773	0.4206	9,698,835 3
Unmitigated	4.3538	4.6742	42.9854	0.0937	10.5420	0.0694	10.6115	2.8082	0.0645	2.8727		9,556,554 0	9,556,554 0	0.6773	0.4206	9,698,835 3

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,116.95	1,116.95	1116.95	3,816,788	3,816,788
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	184.28	49.73	15.75	454,157	454,157
Regional Shopping Center	275.76	275.76	275.76	596,426	596,426
Total	1,576.99	1,442.44	1,408.46	4,867,371	4,867,371

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
Apartments High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
Enclosed Parking Structure	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
General Office Building	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
Regional Shopping Center	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335

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	lb/day										lb/day					
NaturalGas Mitigated	0.0746	0.6412	0.3020	4.0700e-003		0.0515	0.0515		0.0515	0.0515		813.2235	813.2235	0.0156	0.0149	818.0561
NaturalGas Unmitigated	0.0746	0.6412	0.3020	4.0700e-003		0.0515	0.0515		0.0515	0.0515		813.2235	813.2235	0.0156	0.0149	818.0561

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	6196.47	0.0668	0.5711	0.2430	3.6400e-003		0.0462	0.0462		0.0462	0.0462		728.9962	728.9962	0.0140	0.0134	733.3283
Enclosed Parking Structure	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 Office Building	635.548	6.8500e-003	0.0623	0.0523	3.7000e-004		4.7400e-003	4.7400e-003		4.7400e-003	4.7400e-003		74.7704	74.7704	1.4300e-003	1.3700e-003	75.2147
Regional Shopping Center	80.3836	8.7000e-004	7.8800e-003	6.6200e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4569	9.4569	1.8000e-004	1.7000e-004	9.5131
Total		0.0745	0.6412	0.3020	4.0600e-003		0.0515	0.0515		0.0515	0.0515		813.2235	813.2235	0.0156	0.0149	818.0561

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	6.19647	0.0668	0.5711	0.2430	3.6400e-003		0.0462	0.0462		0.0462	0.0462		728.9962	728.9962	0.0140	0.0134	733.3283
Enclosed Parking Structure	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 Office Building	0.635548	6.8500e-003	0.0623	0.0523	3.7000e-004		4.7400e-003	4.7400e-003		4.7400e-003	4.7400e-003		74.7704	74.7704	1.4300e-003	1.3700e-003	75.2147
Regional Shopping Center	0.0803836	8.7000e-004	7.8800e-003	6.6200e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4569	9.4569	1.8000e-004	1.7000e-004	9.5131
Total		0.0745	0.6412	0.3020	4.0600e-003		0.0515	0.0515		0.0515	0.0515		813.2235	813.2235	0.0156	0.0149	818.0561

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	6.5650	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149	0.0000	37.3574	37.3574	0.0359	0.0000	38.2547
Unmitigated	6.5650	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149	0.0000	37.3574	37.3574	0.0359	0.0000	38.2547

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	0.5099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4309					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6242	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149		37.3574	37.3574	0.0359		38.2547
Total	6.5650	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149	0.0000	37.3574	37.3574	0.0359	0.0000	38.2547

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.5099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4309					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6242	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149		37.3574	37.3574	0.0359		38.2547
Total	6.5650	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149	0.0000	37.3574	37.3574	0.0359	0.0000	38.2547

7.0 Water Detail

7.1 Mitigation Measures Water

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
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11.0 Vegetation

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**The Parks in LA Mixed Use Project
Los Angeles-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	22.50	1000sqft	0.00	22,500.00	0
Enclosed Parking Structure	283.00	Space	0.00	138,000.00	0
Apartments High Rise	251.00	Dwelling Unit	1.45	231,320.00	718
Regional Shopping Center	18.00	1000sqft	0.00	18,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2025
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	691.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 1.45 ac lot. Apartments - 251 units 231,320sf. Retail - 18,000sf on 1st floor. Office - 22,500sf on 2nd floor. Garage - 283 spaces

Construction Phase - Project data. 7 day prep. 36 day grading. 400 day building. 30 day coating

Off-road Equipment - Project data. Add excavator

Off-road Equipment - Project data. Add Excavator

Off-road Equipment -

Trips and VMT - Project data. 27 mile haul route

Demolition - 1,073 tons debris disposal

Grading - 1.45 ac lot site prep. 58,300 cy export

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Trips - Adjusted per traffic study

Woodstoves - No hearth

Construction Off-road Equipment Mitigation - Rule 403

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	7.00
tblConstructionPhase	NumDays	4.00	36.00
tblConstructionPhase	NumDays	200.00	400.00
tblConstructionPhase	NumDays	10.00	30.00
tblFireplaces	NumberGas	213.35	0.00
tblFireplaces	NumberWood	12.55	0.00
tblGrading	AcresOfGrading	36.00	4.00
tblGrading	AcresOfGrading	6.56	1.45
tblGrading	MaterialExported	0.00	53,300.00
tblLandUse	LandUseSquareFeet	113,200.00	138,000.00
tblLandUse	LandUseSquareFeet	251,000.00	231,320.00
tblLandUse	LotAcreage	0.52	0.00
tblLandUse	LotAcreage	2.55	0.00
tblLandUse	LotAcreage	4.05	1.45
tblLandUse	LotAcreage	0.41	0.00
tblTripsAndVMT	HaulingTripLength	20.00	27.00
tblTripsAndVMT	HaulingTripLength	20.00	27.00
tblTripsAndVMT	HaulingTripNumber	6,663.00	6,662.00
tblVehicleTrips	ST_TR	4.53	4.45
tblVehicleTrips	ST_TR	46.12	15.32
tblVehicleTrips	SU_TR	3.59	4.45
tblVehicleTrips	SU_TR	21.10	15.32
tblVehicleTrips	WD_TR	9.74	8.19

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	37.75	15.32
tblWoodstoves	NumberCatalytic	12.55	0.00
tblWoodstoves	NumberNoncatalytic	12.55	0.00

2.0 Emissions Summary

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2023	2.3942	47.4791	22.5510	0.1715	10.8243	0.8860	11.7103	4.5853	0.8227	5.4079	0.0000	18,500.16 36	18,500.16 36	1.6901	2.5240	19,294.55 83
2024	62.3712	13.7195	21.7949	0.0566	3.1755	0.4777	3.6532	0.8503	0.4601	1.3104	0.0000	5,555.419 1	5,555.419 1	0.4286	0.2131	5,629.633 8
2025	62.3515	1.2349	3.3708	7.6100e-003	0.5589	0.0546	0.6135	0.1482	0.0543	0.2026	0.0000	750.7618	750.7618	0.0256	0.0100	754.3897
Maximum	62.3712	47.4791	22.5510	0.1715	10.8243	0.8860	11.7103	4.5853	0.8227	5.4079	0.0000	18,500.16 36	18,500.16 36	1.6901	2.5240	19,294.55 83

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					
2023	2.3942	47.4791	22.5510	0.1715	7.3552	0.8860	8.2412	2.7437	0.8227	3.5664	0.0000	18,500.16 36	18,500.16 36	1.6901	2.5240	19,294.55 83
2024	62.3712	13.7195	21.7949	0.0566	3.1755	0.4777	3.6532	0.8503	0.4601	1.3104	0.0000	5,555.419 0	5,555.419 0	0.4286	0.2131	5,629.633 8
2025	62.3515	1.2349	3.3708	7.6100e-003	0.5589	0.0546	0.6135	0.1482	0.0543	0.2026	0.0000	750.7618	750.7618	0.0256	0.0100	754.3897
Maximum	62.3712	47.4791	22.5510	0.1715	7.3552	0.8860	8.2412	2.7437	0.8227	3.5664	0.0000	18,500.16 36	18,500.16 36	1.6901	2.5240	19,294.55 83

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	6.5650	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149	0.0000	37.3574	37.3574	0.0359	0.0000	38.2547
Energy	0.0746	0.6412	0.3020	4.0700e-003		0.0515	0.0515		0.0515	0.0515		813.2235	813.2235	0.0156	0.0149	818.0561
Mobile	4.4370	4.3308	43.7722	0.0978	10.5420	0.0694	10.6114	2.8082	0.0645	2.8727		9,974.8844	9,974.8844	0.6583	0.4031	10,111.4776
Total	11.0766	5.2106	64.7953	0.1030	10.5420	0.2358	10.7778	2.8082	0.2309	3.0391	0.0000	10,825.4653	10,825.4653	0.7098	0.4181	10,967.7883

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	6.5650	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149	0.0000	37.3574	37.3574	0.0359	0.0000	38.2547
Energy	0.0746	0.6412	0.3020	4.0700e-003		0.0515	0.0515		0.0515	0.0515		813.2235	813.2235	0.0156	0.0149	818.0561
Mobile	4.4370	4.3308	43.7722	0.0978	10.5420	0.0694	10.6114	2.8082	0.0645	2.8727		9,974.8844	9,974.8844	0.6583	0.4031	10,111.4776
Total	11.0766	5.2106	64.7953	0.1030	10.5420	0.2358	10.7778	2.8082	0.2309	3.0391	0.0000	10,825.4653	10,825.4653	0.7098	0.4181	10,967.7883

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	Demolition	Demolition	3/6/2023	3/31/2023	5	20	
2	Site Preparation	Site Preparation	4/1/2023	4/11/2023	5	7	
3	Grading	Grading	4/12/2023	5/31/2023	5	36	
4	Building Construction	Building Construction	6/1/2023	12/11/2024	5	400	
5	Paving	Paving	12/12/2024	12/25/2024	5	10	
6	Architectural Coating	Architectural Coating	12/26/2024	2/5/2025	5	30	

Acres of Grading (Site Preparation Phase): 1.45

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 468,423; Residential Outdoor: 156,141; Non-Residential Indoor: 60,750; Non-Residential Outdoor: 20,250; Striped Parking Area: 8,280 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	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	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	106.00	14.70	6.90	27.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	6,662.00	14.70	6.90	27.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	252.00	56.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water Exposed Area

3.2 Demolition - 2023

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					1.1481	0.0000	1.1481	0.1738	0.0000	0.1738			0.0000			0.0000
Off-Road	1.6612	15.8671	16.7154	0.0293		0.7524	0.7524		0.7025	0.7025		2,824.5015	2,824.5015	0.7510		2,843.2771
Total	1.6612	15.8671	16.7154	0.0293	1.1481	0.7524	1.9005	0.1738	0.7025	0.8763		2,824.5015	2,824.5015	0.7510		2,843.2771

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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	0.0135	0.9003	0.2216	4.1400e-003	0.1252	5.8700e-003	0.1311	0.0343	5.6200e-003	0.0399		454.6445	454.6445	0.0252	0.0722	476.7902
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	0.0480	0.0335	0.5421	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		150.0113	150.0113	3.7800e-003	3.4600e-003	151.1375
Total	0.0615	0.9337	0.7637	5.6200e-003	0.2929	6.8800e-003	0.2997	0.0788	6.5500e-003	0.0853		604.6559	604.6559	0.0290	0.0757	627.9277

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					0.5166	0.0000	0.5166	0.0782	0.0000	0.0782			0.0000			0.0000
Off-Road	1.6612	15.8671	16.7154	0.0293		0.7524	0.7524		0.7025	0.7025	0.0000	2,824.5015	2,824.5015	0.7510		2,843.2770
Total	1.6612	15.8671	16.7154	0.0293	0.5166	0.7524	1.2691	0.0782	0.7025	0.7807	0.0000	2,824.5015	2,824.5015	0.7510		2,843.2770

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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	0.0135	0.9003	0.2216	4.1400e-003	0.1252	5.8700e-003	0.1311	0.0343	5.6200e-003	0.0399		454.6445	454.6445	0.0252	0.0722	476.7902
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	0.0480	0.0335	0.5421	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		150.0113	150.0113	3.7800e-003	3.4600e-003	151.1375
Total	0.0615	0.9337	0.7637	5.6200e-003	0.2929	6.8800e-003	0.2997	0.0788	6.5500e-003	0.0853		604.6559	604.6559	0.0290	0.0757	627.9277

3.3 Site Preparation - 2023

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					5.4890	0.0000	5.4890	2.9202	0.0000	2.9202			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668		1,666.0573	1,666.0573	0.5388		1,679.5282
Total	1.1339	12.4250	6.6420	0.0172	5.4890	0.5074	5.9964	2.9202	0.4668	3.3870		1,666.0573	1,666.0573	0.5388		1,679.5282

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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	0.0256	0.0179	0.2891	7.9000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067
Total	0.0256	0.0179	0.2891	7.9000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067

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					2.4701	0.0000	2.4701	1.3141	0.0000	1.3141			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668	0.0000	1,666.0573	1,666.0573	0.5388		1,679.5282
Total	1.1339	12.4250	6.6420	0.0172	2.4701	0.5074	2.9774	1.3141	0.4668	1.7809	0.0000	1,666.0573	1,666.0573	0.5388		1,679.5282

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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	0.0256	0.0179	0.2891	7.9000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067
Total	0.0256	0.0179	0.2891	7.9000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067

3.4 Grading - 2023

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					6.3074	0.0000	6.3074	3.3483	0.0000	3.3483			0.0000			0.0000
Off-Road	1.5217	16.0163	11.9615	0.0258		0.6802	0.6802		0.6257	0.6257		2,495.7204	2,495.7204	0.8072		2,515.8995
Total	1.5217	16.0163	11.9615	0.0258	6.3074	0.6802	6.9875	3.3483	0.6257	3.9741		2,495.7204	2,495.7204	0.8072		2,515.8995

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

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	0.4720	31.4338	7.7358	0.1444	4.3716	0.2050	4.5766	1.1985	0.1961	1.3946		15,874.43 35	15,874.43 35	0.8796	2.5210	16,647.67 29
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	0.0416	0.0290	0.4698	1.2900e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		130.0098	130.0098	3.2800e-003	3.0000e-003	130.9859
Total	0.5136	31.4628	8.2057	0.1457	4.5169	0.2058	4.7228	1.2370	0.1969	1.4339		16,004.44 33	16,004.44 33	0.8829	2.5240	16,778.65 87

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					2.8383	0.0000	2.8383	1.5067	0.0000	1.5067			0.0000			0.0000
Off-Road	1.5217	16.0163	11.9615	0.0258		0.6802	0.6802		0.6257	0.6257	0.0000	2,495.720 4	2,495.720 4	0.8072		2,515.899 5
Total	1.5217	16.0163	11.9615	0.0258	2.8383	0.6802	3.5185	1.5067	0.6257	2.1325	0.0000	2,495.720 4	2,495.720 4	0.8072		2,515.899 5

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

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	0.4720	31.4338	7.7358	0.1444	4.3716	0.2050	4.5766	1.1985	0.1961	1.3946		15,874.43 35	15,874.43 35	0.8796	2.5210	16,647.67 29
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	0.0416	0.0290	0.4698	1.2900e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		130.0098	130.0098	3.2800e-003	3.0000e-003	130.9859
Total	0.5136	31.4628	8.2057	0.1457	4.5169	0.2058	4.7228	1.2370	0.1969	1.4339		16,004.44 33	16,004.44 33	0.8829	2.5240	16,778.65 87

3.5 Building Construction - 2023

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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.787 7	2,001.787 7	0.3399		2,010.285 8
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.787 7	2,001.787 7	0.3399		2,010.285 8

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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	0.0645	2.1495	0.8327	0.0104	0.3587	0.0108	0.3695	0.1033	0.0103	0.1136		1,121.5819	1,121.5819	0.0376	0.1613	1,170.5742
Worker	0.8065	0.5622	9.1073	0.0249	2.8168	0.0169	2.8337	0.7470	0.0156	0.7626		2,520.1899	2,520.1899	0.0635	0.0582	2,539.1103
Total	0.8709	2.7117	9.9400	0.0354	3.1755	0.0278	3.2032	0.8503	0.0259	0.8762		3,641.7718	3,641.7718	0.1011	0.2194	3,709.6845

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	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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	0.0645	2.1495	0.8327	0.0104	0.3587	0.0108	0.3695	0.1033	0.0103	0.1136		1,121.5819	1,121.5819	0.0376	0.1613	1,170.5742
Worker	0.8065	0.5622	9.1073	0.0249	2.8168	0.0169	2.8337	0.7470	0.0156	0.7626		2,520.1899	2,520.1899	0.0635	0.0582	2,539.1103
Total	0.8709	2.7117	9.9400	0.0354	3.1755	0.0278	3.2032	0.8503	0.0259	0.8762		3,641.7718	3,641.7718	0.1011	0.2194	3,709.6845

3.5 Building Construction - 2024

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	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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	0.0625	2.1538	0.8150	0.0103	0.3587	0.0109	0.3696	0.1033	0.0104	0.1137		1,104.7378	1,104.7378	0.0377	0.1590	1,153.0624
Worker	0.7514	0.5018	8.4628	0.0242	2.8168	0.0162	2.8330	0.7470	0.0149	0.7620		2,448.7598	2,448.7598	0.0575	0.0541	2,466.3151
Total	0.8139	2.6556	9.2778	0.0345	3.1755	0.0271	3.2026	0.8503	0.0253	0.8756		3,553.4976	3,553.4976	0.0952	0.2131	3,619.3775

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	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

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	0.0625	2.1538	0.8150	0.0103	0.3587	0.0109	0.3696	0.1033	0.0104	0.1137		1,104.7378	1,104.7378	0.0377	0.1590	1,153.0624
Worker	0.7514	0.5018	8.4628	0.0242	2.8168	0.0162	2.8330	0.7470	0.0149	0.7620		2,448.7598	2,448.7598	0.0575	0.0541	2,466.3151
Total	0.8139	2.6556	9.2778	0.0345	3.1755	0.0271	3.2026	0.8503	0.0253	0.8756		3,553.4976	3,553.4976	0.0952	0.2131	3,619.3775

3.6 Paving - 2024

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	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594		1,297.8688	1,297.8688	0.4114		1,308.1547
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594		1,297.8688	1,297.8688	0.4114		1,308.1547

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

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	0.0388	0.0259	0.4366	1.2500e-003	0.1453	8.4000e-004	0.1462	0.0385	7.7000e-004	0.0393		126.3249	126.3249	2.9700e-003	2.7900e-003	127.2305
Total	0.0388	0.0259	0.4366	1.2500e-003	0.1453	8.4000e-004	0.1462	0.0385	7.7000e-004	0.0393		126.3249	126.3249	2.9700e-003	2.7900e-003	127.2305

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	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594	0.0000	1,297.8688	1,297.8688	0.4114		1,308.1547
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594	0.0000	1,297.8688	1,297.8688	0.4114		1,308.1547

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

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	0.0388	0.0259	0.4366	1.2500e-003	0.1453	8.4000e-004	0.1462	0.0385	7.7000e-004	0.0393		126.3249	126.3249	2.9700e-003	2.7900e-003	127.2305
Total	0.0388	0.0259	0.4366	1.2500e-003	0.1453	8.4000e-004	0.1462	0.0385	7.7000e-004	0.0393		126.3249	126.3249	2.9700e-003	2.7900e-003	127.2305

3.7 Architectural Coating - 2024

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	62.0413					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	62.2221	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

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	0.1491	0.0996	1.6791	4.8100e-003	0.5589	3.2200e-003	0.5621	0.1482	2.9600e-003	0.1512		485.8650	485.8650	0.0114	0.0107	489.3482
Total	0.1491	0.0996	1.6791	4.8100e-003	0.5589	3.2200e-003	0.5621	0.1482	2.9600e-003	0.1512		485.8650	485.8650	0.0114	0.0107	489.3482

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	62.0413					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	62.2221	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

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	0.1491	0.0996	1.6791	4.8100e-003	0.5589	3.2200e-003	0.5621	0.1482	2.9600e-003	0.1512		485.8650	485.8650	0.0114	0.0107	489.3482
Total	0.1491	0.0996	1.6791	4.8100e-003	0.5589	3.2200e-003	0.5621	0.1482	2.9600e-003	0.1512		485.8650	485.8650	0.0114	0.0107	489.3482

3.7 Architectural Coating - 2025

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	62.0413					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	62.2122	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2025

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	0.1394	0.0894	1.5617	4.6400e-003	0.5589	3.0600e-003	0.5620	0.1482	2.8200e-003	0.1510		469.3137	469.3137	0.0103	0.0100	472.5578
Total	0.1394	0.0894	1.5617	4.6400e-003	0.5589	3.0600e-003	0.5620	0.1482	2.8200e-003	0.1510		469.3137	469.3137	0.0103	0.0100	472.5578

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	62.0413					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	62.2122	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2025

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	0.1394	0.0894	1.5617	4.6400e-003	0.5589	3.0600e-003	0.5620	0.1482	2.8200e-003	0.1510		469.3137	469.3137	0.0103	0.0100	472.5578
Total	0.1394	0.0894	1.5617	4.6400e-003	0.5589	3.0600e-003	0.5620	0.1482	2.8200e-003	0.1510		469.3137	469.3137	0.0103	0.0100	472.5578

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	4.4370	4.3308	43.7722	0.0978	10.5420	0.0694	10.6114	2.8082	0.0645	2.8727		9,974.884 4	9,974.884 4	0.6583	0.4031	10,111.47 76
Unmitigated	4.4370	4.3308	43.7722	0.0978	10.5420	0.0694	10.6114	2.8082	0.0645	2.8727		9,974.884 4	9,974.884 4	0.6583	0.4031	10,111.47 76

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,116.95	1,116.95	1116.95	3,816,788	3,816,788
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	184.28	49.73	15.75	454,157	454,157
Regional Shopping Center	275.76	275.76	275.76	596,426	596,426
Total	1,576.99	1,442.44	1,408.46	4,867,371	4,867,371

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
Apartments High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
Enclosed Parking Structure	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
General Office Building	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
Regional Shopping Center	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335

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	lb/day										lb/day					
NaturalGas Mitigated	0.0746	0.6412	0.3020	4.0700e-003		0.0515	0.0515		0.0515	0.0515		813.2235	813.2235	0.0156	0.0149	818.0561
NaturalGas Unmitigated	0.0746	0.6412	0.3020	4.0700e-003		0.0515	0.0515		0.0515	0.0515		813.2235	813.2235	0.0156	0.0149	818.0561

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	6196.47	0.0668	0.5711	0.2430	3.6400e-003		0.0462	0.0462		0.0462	0.0462		728.9962	728.9962	0.0140	0.0134	733.3283
Enclosed Parking Structure	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 Office Building	635.548	6.8500e-003	0.0623	0.0523	3.7000e-004		4.7400e-003	4.7400e-003		4.7400e-003	4.7400e-003		74.7704	74.7704	1.4300e-003	1.3700e-003	75.2147
Regional Shopping Center	80.3836	8.7000e-004	7.8800e-003	6.6200e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4569	9.4569	1.8000e-004	1.7000e-004	9.5131
Total		0.0745	0.6412	0.3020	4.0600e-003		0.0515	0.0515		0.0515	0.0515		813.2235	813.2235	0.0156	0.0149	818.0561

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	6.19647	0.0668	0.5711	0.2430	3.6400e-003		0.0462	0.0462		0.0462	0.0462		728.9962	728.9962	0.0140	0.0134	733.3283
Enclosed Parking Structure	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 Office Building	0.635548	6.8500e-003	0.0623	0.0523	3.7000e-004		4.7400e-003	4.7400e-003		4.7400e-003	4.7400e-003		74.7704	74.7704	1.4300e-003	1.3700e-003	75.2147
Regional Shopping Center	0.0803836	8.7000e-004	7.8800e-003	6.6200e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4569	9.4569	1.8000e-004	1.7000e-004	9.5131
Total		0.0745	0.6412	0.3020	4.0600e-003		0.0515	0.0515		0.0515	0.0515		813.2235	813.2235	0.0156	0.0149	818.0561

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	6.5650	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149	0.0000	37.3574	37.3574	0.0359	0.0000	38.2547
Unmitigated	6.5650	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149	0.0000	37.3574	37.3574	0.0359	0.0000	38.2547

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	0.5099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4309					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6242	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149		37.3574	37.3574	0.0359		38.2547
Total	6.5650	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149	0.0000	37.3574	37.3574	0.0359	0.0000	38.2547

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.5099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.4309					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6242	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149		37.3574	37.3574	0.0359		38.2547
Total	6.5650	0.2386	20.7211	1.1000e-003		0.1149	0.1149		0.1149	0.1149	0.0000	37.3574	37.3574	0.0359	0.0000	38.2547

7.0 Water Detail

7.1 Mitigation Measures Water

The Parks in LA Mixed Use Project - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
----------------	--------	-----------	-----------	-------------	-------------	-----------

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**The Parks in LA Mixed Use Project
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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	22.50	1000sqft	0.00	22,500.00	0
Enclosed Parking Structure	283.00	Space	0.00	138,000.00	0
Apartments High Rise	251.00	Dwelling Unit	1.45	231,320.00	718
Regional Shopping Center	18.00	1000sqft	0.00	18,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2025
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 1.45 ac lot. Apartments - 251 units 231,320sf. Retail - 18,000sf on 1st floor. Office - 22,500sf on 2nd floor. Garage - 283 spaces

Construction Phase - Project data. 7 day prep. 36 day grading. 400 day building. 30 day coating

Off-road Equipment - Project data. Add excavator

Off-road Equipment - Project data. Add Excavator

Off-road Equipment -

Trips and VMT - Project data. 27 mile haul route

Demolition - 1,073 tons debris disposal

Grading - 1.45 ac lot site prep. 58,300 cy export

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Trips - Adjusted per traffic study

Woodstoves - No hearth

Construction Off-road Equipment Mitigation - Rule 403

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	7.00
tblConstructionPhase	NumDays	4.00	36.00
tblConstructionPhase	NumDays	200.00	400.00
tblConstructionPhase	NumDays	10.00	30.00
tblFireplaces	NumberGas	213.35	0.00
tblFireplaces	NumberWood	12.55	0.00
tblGrading	AcresOfGrading	36.00	4.00
tblGrading	AcresOfGrading	6.56	1.45
tblGrading	MaterialExported	0.00	53,300.00
tblLandUse	LandUseSquareFeet	113,200.00	138,000.00
tblLandUse	LandUseSquareFeet	251,000.00	231,320.00
tblLandUse	LotAcreage	0.52	0.00
tblLandUse	LotAcreage	2.55	0.00
tblLandUse	LotAcreage	4.05	1.45
tblLandUse	LotAcreage	0.41	0.00
tblTripsAndVMT	HaulingTripLength	20.00	27.00
tblTripsAndVMT	HaulingTripLength	20.00	27.00
tblTripsAndVMT	HaulingTripNumber	6,663.00	6,662.00
tblVehicleTrips	ST_TR	4.53	4.45
tblVehicleTrips	ST_TR	46.12	15.32
tblVehicleTrips	SU_TR	3.59	4.45
tblVehicleTrips	SU_TR	21.10	15.32
tblVehicleTrips	WD_TR	9.74	8.19

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	37.75	15.32
tblWoodstoves	NumberCatalytic	12.55	0.00
tblWoodstoves	NumberNoncatalytic	12.55	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2023	0.2391	2.2074	2.2370	7.7900e-003	0.4640	0.0665	0.5305	0.1585	0.0633	0.2218	0.0000	721.1420	721.1420	0.0669	0.0574	739.9229
2024	0.4042	1.7547	2.6976	6.9900e-003	0.3880	0.0608	0.4488	0.1041	0.0585	0.1625	0.0000	622.2094	622.2094	0.0502	0.0245	630.7795
2025	0.8106	0.0162	0.0427	1.0000e-004	7.1200e-003	7.1000e-004	7.8300e-003	1.8900e-003	7.1000e-004	2.6000e-003	0.0000	8.6413	8.6413	3.0000e-004	1.3000e-004	8.6871
Maximum	0.8106	2.2074	2.6976	7.7900e-003	0.4640	0.0665	0.5305	0.1585	0.0633	0.2218	0.0000	721.1420	721.1420	0.0669	0.0574	739.9229

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					
2023	0.2391	2.2074	2.2370	7.7900e-003	0.3847	0.0665	0.4512	0.1188	0.0633	0.1820	0.0000	721.1418	721.1418	0.0669	0.0574	739.9226
2024	0.4042	1.7547	2.6976	6.9900e-003	0.3880	0.0608	0.4488	0.1041	0.0585	0.1625	0.0000	622.2091	622.2091	0.0502	0.0245	630.7792
2025	0.8106	0.0162	0.0427	1.0000e-004	7.1200e-003	7.1000e-004	7.8300e-003	1.8900e-003	7.1000e-004	2.6000e-003	0.0000	8.6413	8.6413	3.0000e-004	1.3000e-004	8.6871
Maximum	0.8106	2.2074	2.6976	7.7900e-003	0.3880	0.0665	0.4512	0.1188	0.0633	0.1820	0.0000	721.1418	721.1418	0.0669	0.0574	739.9226

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	9.23	0.00	8.04	15.02	0.00	10.27	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-6-2023	6-5-2023	1.1401	1.1401
2	6-6-2023	9-5-2023	0.5525	0.5525
3	9-6-2023	12-5-2023	0.5517	0.5517
4	12-6-2023	3-5-2024	0.5334	0.5334
5	3-6-2024	6-5-2024	0.5261	0.5261
6	6-6-2024	9-5-2024	0.5242	0.5242
7	9-6-2024	12-5-2024	0.5234	0.5234
8	12-6-2024	3-5-2025	1.0217	1.0217
		Highest	1.1401	1.1401

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Area	1.1622	0.0298	2.5901	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2363	4.2363	4.0700e-003	0.0000	4.3380
Energy	0.0136	0.1170	0.0551	7.4000e-004		9.4000e-003	9.4000e-003		9.4000e-003	9.4000e-003	0.0000	825.9483	825.9483	0.0356	6.4600e-003	828.7634
Mobile	0.7575	0.8382	7.6672	0.0168	1.8288	0.0123	1.8411	0.4879	0.0114	0.4993	0.0000	1,550.0627	1,550.0627	0.1082	0.0679	1,573.0022
Waste						0.0000	0.0000		0.0000	0.0000	31.5225	0.0000	31.5225	1.8629	0.0000	78.0956
Water						0.0000	0.0000		0.0000	0.0000	6.8800	135.9796	142.8595	0.7131	0.0175	165.8940
Total	1.9333	0.9851	10.3124	0.0176	1.8288	0.0360	1.8649	0.4879	0.0352	0.5231	38.4024	2,516.2268	2,554.6292	2.7238	0.0918	2,650.0932

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.1622	0.0298	2.5901	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2363	4.2363	4.0700e-003	0.0000	4.3380
Energy	0.0136	0.1170	0.0551	7.4000e-004		9.4000e-003	9.4000e-003		9.4000e-003	9.4000e-003	0.0000	825.9483	825.9483	0.0356	6.4600e-003	828.7634
Mobile	0.7575	0.8382	7.6672	0.0168	1.8288	0.0123	1.8411	0.4879	0.0114	0.4993	0.0000	1,550.0627	1,550.0627	0.1082	0.0679	1,573.0022
Waste						0.0000	0.0000		0.0000	0.0000	31.5225	0.0000	31.5225	1.8629	0.0000	78.0956
Water						0.0000	0.0000		0.0000	0.0000	6.8800	135.9796	142.8595	0.7131	0.0175	165.8940
Total	1.9333	0.9851	10.3124	0.0176	1.8288	0.0360	1.8649	0.4879	0.0352	0.5231	38.4024	2,516.2268	2,554.6292	2.7238	0.0918	2,650.0932

	ROG	NOx	CO	SO2	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	Demolition	Demolition	3/6/2023	3/31/2023	5	20	
2	Site Preparation	Site Preparation	4/1/2023	4/11/2023	5	7	
3	Grading	Grading	4/12/2023	5/31/2023	5	36	

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4	Building Construction	Building Construction	6/1/2023	12/11/2024	5	400
5	Paving	Paving	12/12/2024	12/25/2024	5	10
6	Architectural Coating	Architectural Coating	12/26/2024	2/5/2025	5	30

Acres of Grading (Site Preparation Phase): 1.45

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 468,423; Residential Outdoor: 156,141; Non-Residential Indoor: 60,750; Non-Residential Outdoor: 20,250; Striped Parking Area: 8,280 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	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	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56

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Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	106.00	14.70	6.90	27.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	6,662.00	14.70	6.90	27.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	252.00	56.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

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					0.0115	0.0000	0.0115	1.7400e-003	0.0000	1.7400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0166	0.1587	0.1672	2.9000e-004		7.5200e-003	7.5200e-003		7.0300e-003	7.0300e-003	0.0000	25.6235	25.6235	6.8100e-003	0.0000	25.7938
Total	0.0166	0.1587	0.1672	2.9000e-004	0.0115	7.5200e-003	0.0190	1.7400e-003	7.0300e-003	8.7700e-003	0.0000	25.6235	25.6235	6.8100e-003	0.0000	25.7938

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	1.3000e-004	9.4900e-003	2.2300e-003	4.0000e-005	1.2300e-003	6.0000e-005	1.2900e-003	3.4000e-004	6.0000e-005	3.9000e-004	0.0000	4.1258	4.1258	2.3000e-004	6.6000e-004	4.3268
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	4.8000e-004	3.8000e-004	5.1100e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3084	1.3084	3.0000e-005	3.0000e-005	1.3194
Total	6.1000e-004	9.8700e-003	7.3400e-003	5.0000e-005	2.8700e-003	7.0000e-005	2.9400e-003	7.8000e-004	7.0000e-005	8.4000e-004	0.0000	5.4342	5.4342	2.6000e-004	6.9000e-004	5.6462

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.1700e-003	0.0000	5.1700e-003	7.8000e-004	0.0000	7.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0166	0.1587	0.1672	2.9000e-004		7.5200e-003	7.5200e-003		7.0300e-003	7.0300e-003	0.0000	25.6234	25.6234	6.8100e-003	0.0000	25.7937
Total	0.0166	0.1587	0.1672	2.9000e-004	5.1700e-003	7.5200e-003	0.0127	7.8000e-004	7.0300e-003	7.8100e-003	0.0000	25.6234	25.6234	6.8100e-003	0.0000	25.7937

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	1.3000e-004	9.4900e-003	2.2300e-003	4.0000e-005	1.2300e-003	6.0000e-005	1.2900e-003	3.4000e-004	6.0000e-005	3.9000e-004	0.0000	4.1258	4.1258	2.3000e-004	6.6000e-004	4.3268
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	4.8000e-004	3.8000e-004	5.1100e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3084	1.3084	3.0000e-005	3.0000e-005	1.3194
Total	6.1000e-004	9.8700e-003	7.3400e-003	5.0000e-005	2.8700e-003	7.0000e-005	2.9400e-003	7.8000e-004	7.0000e-005	8.4000e-004	0.0000	5.4342	5.4342	2.6000e-004	6.9000e-004	5.6462

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

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					0.0192	0.0000	0.0192	0.0102	0.0000	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9700e-003	0.0435	0.0233	6.0000e-005		1.7800e-003	1.7800e-003		1.6300e-003	1.6300e-003	0.0000	5.2900	5.2900	1.7100e-003	0.0000	5.3328
Total	3.9700e-003	0.0435	0.0233	6.0000e-005	0.0192	1.7800e-003	0.0210	0.0102	1.6300e-003	0.0119	0.0000	5.2900	5.2900	1.7100e-003	0.0000	5.3328

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	9.0000e-005	7.0000e-005	9.5000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2442	0.2442	1.0000e-005	1.0000e-005	0.2463
Total	9.0000e-005	7.0000e-005	9.5000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2442	0.2442	1.0000e-005	1.0000e-005	0.2463

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3.3 Site Preparation - 2023

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					8.6500e-003	0.0000	8.6500e-003	4.6000e-003	0.0000	4.6000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9700e-003	0.0435	0.0233	6.0000e-005		1.7800e-003	1.7800e-003		1.6300e-003	1.6300e-003	0.0000	5.2900	5.2900	1.7100e-003	0.0000	5.3327
Total	3.9700e-003	0.0435	0.0233	6.0000e-005	8.6500e-003	1.7800e-003	0.0104	4.6000e-003	1.6300e-003	6.2300e-003	0.0000	5.2900	5.2900	1.7100e-003	0.0000	5.3327

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	9.0000e-005	7.0000e-005	9.5000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2442	0.2442	1.0000e-005	1.0000e-005	0.2463
Total	9.0000e-005	7.0000e-005	9.5000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2442	0.2442	1.0000e-005	1.0000e-005	0.2463

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3.4 Grading - 2023

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					0.1135	0.0000	0.1135	0.0603	0.0000	0.0603	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0274	0.2883	0.2153	4.6000e-004		0.0122	0.0122		0.0113	0.0113	0.0000	40.7534	40.7534	0.0132	0.0000	41.0829
Total	0.0274	0.2883	0.2153	4.6000e-004	0.1135	0.0122	0.1258	0.0603	0.0113	0.0715	0.0000	40.7534	40.7534	0.0132	0.0000	41.0829

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	8.3000e-003	0.5967	0.1398	2.6000e-003	0.0774	3.6900e-003	0.0810	0.0212	3.5300e-003	0.0248	0.0000	259.3047	259.3047	0.0144	0.0412	271.9355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	5.9000e-004	7.9700e-003	2.0000e-005	2.5600e-003	2.0000e-005	2.5800e-003	6.8000e-004	1.0000e-005	7.0000e-004	0.0000	2.0411	2.0411	5.0000e-005	5.0000e-005	2.0582
Total	9.0400e-003	0.5973	0.1478	2.6200e-003	0.0799	3.7100e-003	0.0836	0.0219	3.5400e-003	0.0255	0.0000	261.3457	261.3457	0.0144	0.0412	273.9937

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3.4 Grading - 2023

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					0.0511	0.0000	0.0511	0.0271	0.0000	0.0271	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0274	0.2883	0.2153	4.6000e-004		0.0122	0.0122		0.0113	0.0113	0.0000	40.7534	40.7534	0.0132	0.0000	41.0829
Total	0.0274	0.2883	0.2153	4.6000e-004	0.0511	0.0122	0.0633	0.0271	0.0113	0.0384	0.0000	40.7534	40.7534	0.0132	0.0000	41.0829

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	8.3000e-003	0.5967	0.1398	2.6000e-003	0.0774	3.6900e-003	0.0810	0.0212	3.5300e-003	0.0248	0.0000	259.3047	259.3047	0.0144	0.0412	271.9355
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	5.9000e-004	7.9700e-003	2.0000e-005	2.5600e-003	2.0000e-005	2.5800e-003	6.8000e-004	1.0000e-005	7.0000e-004	0.0000	2.0411	2.0411	5.0000e-005	5.0000e-005	2.0582
Total	9.0400e-003	0.5973	0.1478	2.6200e-003	0.0799	3.7100e-003	0.0836	0.0219	3.5400e-003	0.0255	0.0000	261.3457	261.3457	0.0144	0.0412	273.9937

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

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	0.1158	0.8900	0.9584	1.6800e-003		0.0391	0.0391		0.0378	0.0378	0.0000	138.0153	138.0153	0.0234	0.0000	138.6012
Total	0.1158	0.8900	0.9584	1.6800e-003		0.0391	0.0391		0.0378	0.0378	0.0000	138.0153	138.0153	0.0234	0.0000	138.6012

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	4.8100e-003	0.1715	0.0642	7.9000e-004	0.0268	8.2000e-004	0.0277	7.7400e-003	7.9000e-004	8.5300e-003	0.0000	77.3836	77.3836	2.5900e-003	0.0111	80.7669
Worker	0.0608	0.0483	0.6525	1.8200e-003	0.2099	1.2900e-003	0.2112	0.0557	1.1900e-003	0.0569	0.0000	167.0521	167.0521	4.4400e-003	4.3500e-003	168.4591
Total	0.0656	0.2198	0.7167	2.6100e-003	0.2367	2.1100e-003	0.2388	0.0635	1.9800e-003	0.0655	0.0000	244.4357	244.4357	7.0300e-003	0.0155	249.2260

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3.5 Building Construction - 2023

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	0.1158	0.8900	0.9584	1.6800e-003		0.0391	0.0391		0.0378	0.0378	0.0000	138.0152	138.0152	0.0234	0.0000	138.6011
Total	0.1158	0.8900	0.9584	1.6800e-003		0.0391	0.0391		0.0378	0.0378	0.0000	138.0152	138.0152	0.0234	0.0000	138.6011

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	4.8100e-003	0.1715	0.0642	7.9000e-004	0.0268	8.2000e-004	0.0277	7.7400e-003	7.9000e-004	8.5300e-003	0.0000	77.3836	77.3836	2.5900e-003	0.0111	80.7669
Worker	0.0608	0.0483	0.6525	1.8200e-003	0.2099	1.2900e-003	0.2112	0.0557	1.1900e-003	0.0569	0.0000	167.0521	167.0521	4.4400e-003	4.3500e-003	168.4591
Total	0.0656	0.2198	0.7167	2.6100e-003	0.2367	2.1100e-003	0.2388	0.0635	1.9800e-003	0.0655	0.0000	244.4357	244.4357	7.0300e-003	0.0155	249.2260

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3.5 Building Construction - 2024

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	0.1761	1.3719	1.5521	2.7400e-003		0.0559	0.0559		0.0539	0.0539	0.0000	225.1980	225.1980	0.0375	0.0000	226.1356
Total	0.1761	1.3719	1.5521	2.7400e-003		0.0559	0.0559		0.0539	0.0539	0.0000	225.1980	225.1980	0.0375	0.0000	226.1356

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.6000e-003	0.2804	0.1025	1.2700e-003	0.0438	1.3500e-003	0.0451	0.0126	1.2900e-003	0.0139	0.0000	124.3631	124.3631	4.2400e-003	0.0179	129.8076
Worker	0.0925	0.0702	0.9900	2.8900e-003	0.3424	2.0100e-003	0.3444	0.0910	1.8500e-003	0.0928	0.0000	264.8522	264.8522	6.5600e-003	6.5900e-003	266.9815
Total	0.1001	0.3506	1.0925	4.1600e-003	0.3862	3.3600e-003	0.3896	0.1036	3.1400e-003	0.1067	0.0000	389.2153	389.2153	0.0108	0.0245	396.7891

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3.5 Building Construction - 2024

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	0.1761	1.3719	1.5521	2.7400e-003		0.0559	0.0559		0.0539	0.0539	0.0000	225.1977	225.1977	0.0375	0.0000	226.1353
Total	0.1761	1.3719	1.5521	2.7400e-003		0.0559	0.0559		0.0539	0.0539	0.0000	225.1977	225.1977	0.0375	0.0000	226.1353

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.6000e-003	0.2804	0.1025	1.2700e-003	0.0438	1.3500e-003	0.0451	0.0126	1.2900e-003	0.0139	0.0000	124.3631	124.3631	4.2400e-003	0.0179	129.8076
Worker	0.0925	0.0702	0.9900	2.8900e-003	0.3424	2.0100e-003	0.3444	0.0910	1.8500e-003	0.0928	0.0000	264.8522	264.8522	6.5600e-003	6.5900e-003	266.9815
Total	0.1001	0.3506	1.0925	4.1600e-003	0.3862	3.3600e-003	0.3896	0.1036	3.1400e-003	0.1067	0.0000	389.2153	389.2153	0.0108	0.0245	396.7891

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3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0900e-003	0.0293	0.0441	7.0000e-005		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	5.8870	5.8870	1.8700e-003	0.0000	5.9337
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.0900e-003	0.0293	0.0441	7.0000e-005		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	5.8870	5.8870	1.8700e-003	0.0000	5.9337

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	1.9000e-004	1.5000e-004	2.0600e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5509	0.5509	1.0000e-005	1.0000e-005	0.5554
Total	1.9000e-004	1.5000e-004	2.0600e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5509	0.5509	1.0000e-005	1.0000e-005	0.5554

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3.6 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0900e-003	0.0293	0.0441	7.0000e-005		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	5.8870	5.8870	1.8700e-003	0.0000	5.9337
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.0900e-003	0.0293	0.0441	7.0000e-005		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	5.8870	5.8870	1.8700e-003	0.0000	5.9337

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	1.9000e-004	1.5000e-004	2.0600e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5509	0.5509	1.0000e-005	1.0000e-005	0.5554
Total	1.9000e-004	1.5000e-004	2.0600e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5509	0.5509	1.0000e-005	1.0000e-005	0.5554

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3.7 Architectural Coating - 2024

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	0.1241					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-004	2.4400e-003	3.6200e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.5107	0.5107	3.0000e-005	0.0000	0.5114
Total	0.1244	2.4400e-003	3.6200e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.5107	0.5107	3.0000e-005	0.0000	0.5114

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.2000e-004	3.1700e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8476	0.8476	2.0000e-005	2.0000e-005	0.8544
Total	3.0000e-004	2.2000e-004	3.1700e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8476	0.8476	2.0000e-005	2.0000e-005	0.8544

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3.7 Architectural Coating - 2024

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	0.1241					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-004	2.4400e-003	3.6200e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.5107	0.5107	3.0000e-005	0.0000	0.5114
Total	0.1244	2.4400e-003	3.6200e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.5107	0.5107	3.0000e-005	0.0000	0.5114

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.2000e-004	3.1700e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8476	0.8476	2.0000e-005	2.0000e-005	0.8544
Total	3.0000e-004	2.2000e-004	3.1700e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8476	0.8476	2.0000e-005	2.0000e-005	0.8544

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3.7 Architectural Coating - 2025

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	0.8065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2200e-003	0.0149	0.0235	4.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	3.3192	3.3192	1.8000e-004	0.0000	3.3238
Total	0.8088	0.0149	0.0235	4.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	3.3192	3.3192	1.8000e-004	0.0000	3.3238

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-003	1.3100e-003	0.0192	6.0000e-005	7.1200e-003	4.0000e-005	7.1600e-003	1.8900e-003	4.0000e-005	1.9300e-003	0.0000	5.3221	5.3221	1.2000e-004	1.3000e-004	5.3633
Total	1.8000e-003	1.3100e-003	0.0192	6.0000e-005	7.1200e-003	4.0000e-005	7.1600e-003	1.8900e-003	4.0000e-005	1.9300e-003	0.0000	5.3221	5.3221	1.2000e-004	1.3000e-004	5.3633

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3.7 Architectural Coating - 2025

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	0.8065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2200e-003	0.0149	0.0235	4.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	3.3192	3.3192	1.8000e-004	0.0000	3.3238
Total	0.8088	0.0149	0.0235	4.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	3.3192	3.3192	1.8000e-004	0.0000	3.3238

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-003	1.3100e-003	0.0192	6.0000e-005	7.1200e-003	4.0000e-005	7.1600e-003	1.8900e-003	4.0000e-005	1.9300e-003	0.0000	5.3221	5.3221	1.2000e-004	1.3000e-004	5.3633
Total	1.8000e-003	1.3100e-003	0.0192	6.0000e-005	7.1200e-003	4.0000e-005	7.1600e-003	1.8900e-003	4.0000e-005	1.9300e-003	0.0000	5.3221	5.3221	1.2000e-004	1.3000e-004	5.3633

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7575	0.8382	7.6672	0.0168	1.8288	0.0123	1.8411	0.4879	0.0114	0.4993	0.0000	1,550.0627	1,550.0627	0.1082	0.0679	1,573.0022
Unmitigated	0.7575	0.8382	7.6672	0.0168	1.8288	0.0123	1.8411	0.4879	0.0114	0.4993	0.0000	1,550.0627	1,550.0627	0.1082	0.0679	1,573.0022

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,116.95	1,116.95	1116.95	3,816,788	3,816,788
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	184.28	49.73	15.75	454,157	454,157
Regional Shopping Center	275.76	275.76	275.76	596,426	596,426
Total	1,576.99	1,442.44	1,408.46	4,867,371	4,867,371

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
Apartments High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

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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
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
Enclosed Parking Structure	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
General Office Building	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
Regional Shopping Center	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	691.3100	691.3100	0.0330	4.0000e-003	693.3251
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	691.3100	691.3100	0.0330	4.0000e-003	693.3251
NaturalGas Mitigated	0.0136	0.1170	0.0551	7.4000e-004		9.4000e-003	9.4000e-003		9.4000e-003	9.4000e-003	0.0000	134.6383	134.6383	2.5800e-003	2.4700e-003	135.4384
NaturalGas Unmitigated	0.0136	0.1170	0.0551	7.4000e-004		9.4000e-003	9.4000e-003		9.4000e-003	9.4000e-003	0.0000	134.6383	134.6383	2.5800e-003	2.4700e-003	135.4384

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	2.26171e+006	0.0122	0.1042	0.0444	6.7000e-004		8.4300e-003	8.4300e-003		8.4300e-003	8.4300e-003	0.0000	120.6935	120.6935	2.3100e-003	2.2100e-003	121.4107
Enclosed Parking Structure	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 Office Building	231975	1.2500e-003	0.0114	9.5500e-003	7.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	12.3791	12.3791	2.4000e-004	2.3000e-004	12.4526
Regional Shopping Center	29340	1.6000e-004	1.4400e-003	1.2100e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5657	1.5657	3.0000e-005	3.0000e-005	1.5750
Total		0.0136	0.1170	0.0551	7.5000e-004		9.4000e-003	9.4000e-003		9.4000e-003	9.4000e-003	0.0000	134.6383	134.6383	2.5800e-003	2.4700e-003	135.4384

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	2.26171e+006	0.0122	0.1042	0.0444	6.7000e-004		8.4300e-003	8.4300e-003		8.4300e-003	8.4300e-003	0.0000	120.6935	120.6935	2.3100e-003	2.2100e-003	121.4107
Enclosed Parking Structure	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 Office Building	231975	1.2500e-003	0.0114	9.5500e-003	7.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	12.3791	12.3791	2.4000e-004	2.3000e-004	12.4526
Regional Shopping Center	29340	1.6000e-004	1.4400e-003	1.2100e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5657	1.5657	3.0000e-005	3.0000e-005	1.5750
Total		0.0136	0.1170	0.0551	7.5000e-004		9.4000e-003	9.4000e-003		9.4000e-003	9.4000e-003	0.0000	134.6383	134.6383	2.5800e-003	2.4700e-003	135.4384

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	961478	301.7857	0.0144	1.7400e-003	302.6654
Enclosed Parking Structure	724500	227.4038	0.0108	1.3100e-003	228.0666
General Office Building	281250	88.2779	4.2100e-003	5.1000e-004	88.5352
Regional Shopping Center	235260	73.8427	3.5200e-003	4.3000e-004	74.0579
Total		691.3100	0.0330	3.9900e-003	693.3251

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	961478	301.7857	0.0144	1.7400e-003	302.6654
Enclosed Parking Structure	724500	227.4038	0.0108	1.3100e-003	228.0666
General Office Building	281250	88.2779	4.2100e-003	5.1000e-004	88.5352
Regional Shopping Center	235260	73.8427	3.5200e-003	4.3000e-004	74.0579
Total		691.3100	0.0330	3.9900e-003	693.3251

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.1622	0.0298	2.5901	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2363	4.2363	4.0700e-003	0.0000	4.3380
Unmitigated	1.1622	0.0298	2.5901	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2363	4.2363	4.0700e-003	0.0000	4.3380

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0931					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0780	0.0298	2.5901	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2363	4.2363	4.0700e-003	0.0000	4.3380
Total	1.1622	0.0298	2.5901	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2363	4.2363	4.0700e-003	0.0000	4.3380

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Architectural Coating	0.0931					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0780	0.0298	2.5901	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2363	4.2363	4.0700e-003	0.0000	4.3380
Total	1.1622	0.0298	2.5901	1.4000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	4.2363	4.2363	4.0700e-003	0.0000	4.3380

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	142.8595	0.7131	0.0175	165.8940
Unmitigated	142.8595	0.7131	0.0175	165.8940

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	16.3537 / 10.3099	107.9780	0.5378	0.0132	125.3493
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	3.99901 / 2.45101	26.1597	0.1315	3.2200e-003	30.4068
Regional Shopping Center	1.33331 / 0.817187	8.7219	0.0438	1.0700e-003	10.1379
Total		142.8595	0.7131	0.0175	165.8940

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	16.3537 / 10.3099	107.9780	0.5378	0.0132	125.3493
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	3.99901 / 2.45101	26.1597	0.1315	3.2200e-003	30.4068
Regional Shopping Center	1.33331 / 0.817187	8.7219	0.0438	1.0700e-003	10.1379
Total		142.8595	0.7131	0.0175	165.8940

8.0 Waste Detail

8.1 Mitigation Measures Waste

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	31.5225	1.8629	0.0000	78.0956
Unmitigated	31.5225	1.8629	0.0000	78.0956

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	115.46	23.4373	1.3851	0.0000	58.0650
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	20.93	4.2486	0.2511	0.0000	10.5257
Regional Shopping Center	18.9	3.8365	0.2267	0.0000	9.5048
Total		31.5225	1.8629	0.0000	78.0956

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	115.46	23.4373	1.3851	0.0000	58.0650
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	20.93	4.2486	0.2511	0.0000	10.5257
Regional Shopping Center	18.9	3.8365	0.2267	0.0000	9.5048
Total		31.5225	1.8629	0.0000	78.0956

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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number
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11.0 Vegetation
