



## Technical Memorandum

To: Marwan Alabbasi, Polomarmar, LP

From: Eliza Laws, Senior Environmental Analyst  
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Date: Revised January 20, 2021

Re: Air Quality/Greenhouse Gas Analysis for the Motte Country Plaza Project, City of Menifee, California, (Plot Plan No. 2018-300)

The following air quality assessment was prepared to evaluate whether the expected criteria air pollutant emissions generated as a result of construction and operation of the proposed Project would cause exceedances of the South Coast Air Quality Management District (SCAQMD) thresholds for air quality in the Project area. The greenhouse gas (GHG) assessment was prepared to evaluate whether the expected criteria GHG emissions generated as a result of construction and operation of the proposed Project would exceed the SCAQMD draft screening significance thresholds. This assessment was conducted within the context of the California Environmental Quality Act (CEQA, California Public Resources Code Sections 21000 *et seq.*). The methodology follows the *CEQA Air Quality Handbook* prepared by the SCAQMD for quantification of emissions and evaluation of potential impacts to air resources. As recommended by SCAQMD staff, the **California Emissions Estimator Model**<sup>®</sup> version 2016.3.2 (CalEEMod) was used to quantify Project-related emissions.

The Project proposes relocating existing train car restaurant buildings within the same existing commercial center and constructing a 16-pump gasoline station with 3,830 square foot (SF) convenience store with 985 SF office and 1,763 SF fast food restaurant with drive thru and a 1,030 SF automated car wash on the 1.43-acre site in the City of Menifee, California. The car wash will use a reclaim system to recycle approximately 85 percent of water used in the car wash process.

Off-site improvements include the installation of a 10 to 12-inch diameter sewer pipelines that will connect to existing sewer lines located 1,106 linear feet (LF) west of the site at Autumn Winds Road. The sewer line will be located within a 20-foot (ft) unpaved dirt easement along the northern boundary of the site.

### ▪ Regional Significance Thresholds

The thresholds contained in the *SCAQMD CEQA Air Quality Handbook*<sup>1</sup> (SCAQMD 1993) are considered regional thresholds and are shown in **Table 1 – SCAQMD CEQA Daily Regional Significance Thresholds**, below. These regional thresholds were developed based on the SCAQMD's treatment of a major stationary source.

<sup>1</sup> South Coast Air Quality Management District, *CEQA Air Quality Handbook*, November 1993. (Available at SCAQMD.)

**Table 1 – SCAQMD CEQA Daily Regional Significance Thresholds**

Emission Threshold	Units	VOC	NO <sub>x</sub>	CO	SO <sub>x</sub>	PM-10	PM-2.5
Construction	lbs/day	75	100	550	150	150	55
Operation <sup>1</sup>	lbs/day	55	55	550	150	150	55

Air quality impacts can be described in a short- and long-term perspective. Short-term impacts occur during site grading and Project construction and consist of fugitive dust and other particulate matter, as well as exhaust emissions generated by construction-related vehicles. Long-term air quality impacts occur once the Project is in operation.

The Project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rule 403 establishes these procedures. Compliance with this rule is achieved through application of standard best management practices in construction and operation activities, such as application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph and establishing a permanent, stabilizing ground cover on finished sites. In addition, projects that disturb 50 or more acres or more of soil or move 5,000 cubic yards of materials per day are required to submit a Fugitive Dust Control Plan or a Large Operation Notification Form to SCAQMD. Based on the size of this Project’s site (approximately 1.43 acres), a Fugitive Dust Control Plan or a Large Operation Notification Form would not be required.

### Short-Term Analysis

Short-term emissions from Project construction were evaluated using the CalEEMod version 2016.3.2 program. The estimated construction period for the proposed Project is approximately 8.5 months, beginning no sooner than March 2021. The default parameters within CalEEMod were used and these default values reflect a worst-case scenario, which means that Project emissions are expected to be equal to or less than the estimated emissions. In addition to the default values used, assumptions relevant to model inputs for short-term construction emission estimates used are:

- Construction is anticipated to begin in March 2021 with site preparation and end with architectural coating:

Construction Activity	Start Date	End Date	Total Working Days
Site Preparation	March 1, 2021	March 2, 2021	2
Grading	March 3, 2021	March 9, 2021	5
Building Construction	March 10, 2021	November 10, 2021	176
Paving	October 28, 2021	November 10, 2021	10
Architectural Coating	October 28, 2021	November 10, 2021	10

- The equipment to be used for each activity is shown below and represents program defaults, updated by Project-specific information from the Project applicant. Each piece of equipment is assumed to operate 8 hours per day:

Construction Activity	Off-Road Equipment	Unit Amount
Site Preparation	Graders	1
	Tractors/Loaders/Backhoes	2
	Excavators	1
Grading	Graders	1
	Tractors/Loaders/Backhoes	2
	Crushing/Proc. Equipment	1

Building Construction	Forklifts	1
	Generator Sets	1
	Tractors/Loaders/Backhoes	2
	Welders	3
Paving	Cement and Mortar Mixer	1
	Pavers	1
	Paving Equipment	1
	Rollers	1
	Tractors/Loaders/Backhoes	1
Architectural Coatings	Air Compressors	1

- To evaluate Project compliance with SCAQMD Rule 403 for fugitive dust control, the Project utilized the mitigation option of watering the Project site three times daily which achieves a control efficiency of 61 percent for PM-10 and PM-2.5 emissions. Two (2) one-way vendor trips per day were added to the site preparation, grading and paving activity to account for water truck trips.
- Off-site sewer pipeline will be installed during building construction within a 20-ft wide unpaved dirt easement along the northern Project boundary, connecting to existing sewer pipelines approximately 1,100 feet west of the proposed Project site. Disturbance will be limited to the 20-ft wide easement and has been included in the other non-asphalt land use category.

The results of this analysis are summarized below.

**Table 2 – Estimated Maximum Daily Construction Emissions**

Activity	Peak Daily Emissions (lb/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM-10	PM-2.5
<b>SCAQMD Daily Construction Thresholds</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Site Preparation	1.11	12.08	9.96	0.02	0.85	0.53
Grading	1.39	13.42	11.03	0.02	0.87	0.63
Building Construction	<b>1.97</b>	<b>14.06</b>	<b>16.09</b>	<b>0.03</b>	<b>1.19</b>	<b>0.81</b>
Paving	<b>1.14</b>	<b>8.94</b>	<b>10.41</b>	<b>0.02</b>	<b>0.62</b>	<b>0.47</b>
Architectural Coatings	<b>9.59</b>	<b>2.06</b>	<b>2.68</b>	<b>0.00</b>	<b>0.20</b>	<b>0.15</b>
<b>Maximum<sup>1</sup></b>	<b>12.70</b>	<b>25.06</b>	<b>29.18</b>	<b>0.05</b>	<b>2.01</b>	<b>1.43</b>
<b>Exceeds Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Note: <sup>1</sup> Maximum emissions are the greater of site preparation or grading alone, or the greater of the sum of building construction, paving and architectural coating since these activities overlap. Maximum emissions are shown in bold.

As shown in the table above, the emissions from construction of the Project are below the SCAQMD daily construction thresholds for all the criteria pollutants.

### Long-Term Analysis

Long-term emissions are evaluated at build-out of a project. The Project is assumed to be operational in 2022. Mobile source emissions refer to on-road motor vehicle emissions generated from the Project's traffic and are based on the Project's Traffic Study.<sup>2</sup>

<sup>2</sup> Albert A. Webb Associates, *Revised Traffic Impact Analysis (TIA), Motte Country Plaza*, June 2020. Subsequent to the time the analysis herein was prepared, the TIA was updated. However, no revision to the Project's trip generation was required. Thus, while the City-approved TIA is dated January 2021, no changes to this analysis are required.

Area source emissions from the Project include stationary combustion emissions of natural gas used for space and water heating (shown in a separate row as energy), yard and landscape maintenance, consumer use of solvents and personal care products, and an average building square footage to be repainted each year. CalEEMod computes area source emissions based upon default factors and land use assumptions. CalEEMod does not estimate emissions from the loading/fueling operations at the gasoline station. Therefore, the volatile organic compounds (VOC) emissions were estimated based on the Project’s estimated annual throughput of 1.6 million gallons per year and the emission rates provided by the SCAQMD’s Risk Assessment Procedures for Rules 1401, 1401.1, and 212.<sup>3</sup> The Project’s energy emissions were also adjusted to reflect the improvements expected from 2019 Title 24 standards, which became effective January 1, 2020.<sup>4</sup> Separate emissions were computed for both the summer and winter.

**Table 3 – Estimated Daily Project Operation Emissions (Summer)**

Source	Peak Daily Emissions (lb/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM-10	PM-2.5
<b>SCAQMD Daily Thresholds</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Area <sup>1</sup>	3.46	0.00	0.00	0.00	0.00	0.00
Energy	0.01	0.12	0.10	0.00	0.01	0.01
Mobile	7.11	47.04	45.81	0.19	11.12	3.05
<b>Total</b>	<b>10.58</b>	<b>47.16</b>	<b>45.91</b>	<b>0.19</b>	<b>11.13</b>	<b>3.06</b>
<b>Exceeds Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

<sup>1</sup> VOC emissions from gasoline transfer and dispensing activities at the proposed gas station were based on maximum VOC limits of 0.15, 0.024, 0.32, 0.009, and 0.24 lbs VOC per 1,000 gallons from the loading, storage tank breathing, refueling, hose permeation, and spillage processes, respectively.

**Table 4 – Estimated Daily Project Operation Emissions (Winter)**

Source	Peak Daily Emissions (lb/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM-10	PM-2.5
<b>SCAQMD Daily Thresholds</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Area <sup>1</sup>	3.46	0.00	0.00	0.00	0.00	0.00
Energy	0.01	0.12	0.10	0.00	0.01	0.01
Mobile	5.85	46.07	43.78	0.17	11.13	3.06
<b>Total</b>	<b>9.32</b>	<b>46.19</b>	<b>43.88</b>	<b>0.17</b>	<b>11.14</b>	<b>3.07</b>
<b>Exceeds Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

<sup>1</sup> VOC emissions from gasoline transfer and dispensing activities at the proposed gas station were based on maximum VOC limits of 0.15, 0.024, 0.32, 0.009, and 0.24 lbs VOC per 1,000 gallons from the loading, storage tank breathing, refueling, hose permeation, and spillage processes, respectively.

Evaluation of the data presented on the above tables indicates that criteria pollutant emissions from operation of this Project will not exceed the SCAQMD regional daily thresholds for any pollutant during summer or winter.

## Localized Significance Threshold Analysis

### Background

As part of the SCAQMD’s environmental justice program, attention has been focused on localized effects of air quality. Staff at SCAQMD has developed localized significance threshold (LST)

<sup>3</sup> <http://www.aqmd.gov/docs/default-source/permitting/rule-1401-risk-assessment/riskassessproc-v8-1.pdf?sfvrsn=12>

<sup>4</sup> The 2019 Title 24 standards are 7 percent more efficient for residential uses and 30 percent more efficient for non-residential uses than the 2016 standards in CalEEMod: [https://www.energy.ca.gov/sites/default/files/2020-03/Title\\_24\\_2019\\_Building\\_Standards\\_FAQ\\_ada.pdf](https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf)

methodology<sup>5</sup> that can be used by public agencies to determine whether or not a project may generate significant adverse localized air quality impacts (both short- and long-term) to sensitive receptors. SCAQMD considers a sensitive receptor to be a location where a sensitive individual could remain for 24 hours, such as residences, hospitals, or convalescent facilities. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the state ambient air quality standard, and are developed based on the ambient concentrations of that pollutant for each source receptor area (SRA). The Project is located in SRA 24.

### Short-Term Analysis

According to the LST methodology, only on-site emissions need to be analyzed. Emissions associated with vendor and worker trips are mobile source emissions that occur off site. The emissions analyzed under the LST methodology are NO<sub>2</sub>, CO, PM-10, and PM-2.5. SCAQMD has provided LST lookup tables<sup>6</sup> to allow users to readily determine if the daily emissions for proposed construction or operational activities could result in significant localized air quality impacts for projects five acres or smaller. The Project site is approximately 1.43 acres.<sup>7</sup> Therefore, the one-acre Look-Up Table was used with the on-site emissions estimated by CalEEMod to provide a conservative analysis.

The LST thresholds are estimated using the maximum daily disturbed area (in acres) and the distance of the Project to the nearest sensitive receptors (in meters). The closest existing sensitive receptors are residential houses along Highway 74, approximately 284 meters (933 feet) to the west of the Project site. The closest corresponding receptor distance on the LST look-up tables is 200 meters. However, planned residential uses are approved for the vacant land immediately north of the Project site. In the event these residential uses are constructed before Project construction, this location was assumed to be the closest sensitive use. According to LST methodology, projects with boundaries closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters. Therefore, a receptor distance of 25 meters (85 feet) was used ensure a conservative analysis. The results are summarized below.

**Table 5 – LST Results for Daily Construction Emissions**

Pollutant	Peak Daily Emissions (lb/day)			
	NO <sub>x</sub>	CO	PM-10	PM-2.5
<b>LST Threshold for 1 acre at 25 meters</b>	<b>118</b>	<b>602</b>	<b>4</b>	<b>3</b>
Site Preparation	11.87	9.56	0.72	0.50
Grading	13.21	10.63	0.74	0.60
Building Construction	<b>12.66</b>	<b>14.53</b>	<b>0.70</b>	<b>0.67</b>
Paving	<b>8.72</b>	<b>9.90</b>	<b>0.47</b>	<b>0.43</b>
Architectural Coating	<b>2.04</b>	<b>2.42</b>	<b>0.13</b>	<b>0.13</b>
<b>Maximum<sup>1</sup></b>	<b>23.42</b>	<b>26.85</b>	<b>1.30</b>	<b>1.23</b>
<b>Exceeds Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Note: <sup>1</sup> Maximum emissions are the greater of site preparation or grading alone, or the greater of the sum of building construction, paving and architectural coating since these activities overlap. Maximum emissions are shown in bold.

<sup>5</sup> South Coast Air Quality Management District, *Final Localized Significance Threshold Methodology*, Revised July 2008. (Available at <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>, accessed July 13, 2020.)

<sup>6</sup> <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>

<sup>7</sup> <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf?sfvrsn=2>

Emissions from construction of the Project will be below the LST established by SCAQMD for the Project.

### Long-Term Analysis

This Project involves the construction of gasoline station, car wash, convenience store, and a fast-food restaurant with drive-thru. According to SCAQMD LST methodology, LSTs would apply to the operational phase of a project, if the project includes stationary sources (e.g. flares and turbines) and/or on-site mobile equipment or attracts mobile sources that may spend long periods of time idling at the site, such as warehouse/transfer facilities. The proposed Project does not include such uses. Therefore, due to the lack of stationary source emissions or on-site heavy-duty mobile equipment, no long-term LST analysis is needed.

### CO Hot Spots Analysis

A carbon monoxide (CO) “hot spot” is a localized concentration of CO that is above the state or federal 1-hour or 8-hour ambient air quality standards (AAQS). Localized high levels of CO are associated with traffic congestion and idling or slow-moving vehicles. Based on the information presented below, a CO “hot spot” analysis is not needed to determine whether the addition of Project related traffic will contribute to an exceedance of either the state or federal AAQS for CO emissions in the Project area.

The analysis prepared for CO attainment in the South Coast Air Basin by the SCAQMD can be used to assist in evaluating the potential for CO exceedances in the South Coast Air Basin. CO attainment was thoroughly analyzed as part of the SCAQMD’s 2003 Air Quality Management Plan (2003 AQMP)<sup>8</sup> and the Revised 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan).<sup>9</sup> As discussed in the 1992 CO Plan, peak carbon monoxide concentrations in the South Coast Air Basin are due to unusual meteorological and topographical conditions, and not due to the impact of particular intersections (2003 AQMP Appendix V, p. V-4-32). Considering the region’s unique meteorological conditions and the increasingly stringent CO emissions standards, CO modeling was performed as part of the 1992 CO Plan and subsequent plan updates and air quality management plans.

In the 1992 CO Plan, a CO hot spot analysis was conducted for four busy intersections in Los Angeles at the peak morning and afternoon time periods. The intersections evaluated included: Long Beach Blvd. and Imperial Highway (Lynwood); Wilshire Blvd. and Veteran Ave. (Westwood); Sunset Blvd. and Highland Ave. (Hollywood); and La Cienega Blvd. and Century Blvd. (Inglewood). These analyses did not predict a violation of CO standards. The busiest intersection evaluated in the 1992 CO Plan and subsequent 2003 AQMP was that at Wilshire Blvd. and Veteran Ave., which has a daily traffic volume of approximately 100,000 vehicles per day (2003 AQMP Appendix V, Table 4-7). This hot spot analysis was conducted at intersections subject to extremes in vehicle volumes and vehicle congestion, and did not predict any violation of CO standards. Considering Project-related traffic as well as existing conditions, ambient growth, and cumulative project traffic, the highest average daily trips would be 41,990 on Highway 74 between Menifee Road to Briggs Road, which is lower than the values studied by SCAQMD.<sup>10</sup> Therefore, it can reasonably be concluded that Project-related traffic would not have daily traffic volumes exceeding those at the intersections modeled in the 2003 AQMP, nor would there be any reason unique to the meteorology to conclude that intersections affected by the Project would yield higher CO concentrations if modeled in detail. Thus, the Project would not result in CO hot spots.

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<sup>8</sup> SCAQMD, *2003 Air Quality Management Plan, August 1, 2003*. (Available at <http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/2003-aqmp>, accessed July 2020.)

<sup>9</sup> SCAQMD, *Revision to the 1992 Carbon Monoxide Attainment Plan*, September 1994. (Available at SCAQMD.)

<sup>10</sup> Albert A. Webb Associates, *Revised Traffic Impact Analysis Motte Country Plaza*, January 2021.

## ▪ Gas Station Analysis

Gasoline fueling stations are regulated by the SCAQMD Rule 461, Gasoline Storage and Dispensing, which requires an enhanced vapor recovery system that has a minimum volumetric efficiency of 95 percent and includes a diagnostic system. Therefore, the emissions and resulting impacts from the proposed gasoline station would not be substantial. The purpose of this system is to collect and store gasoline vapors during both bulk deliveries and vehicle operations. In general, fuel dispensing systems are required to include driplless nozzles that seal to the vehicle during filling. A vacuum system forces the vapors created by the vehicle filling back to the underground storage tank (UST). The storage tank is vented by a mechanical filtration system that scrubs and neutralizes the vapors before their release.

Similarly, during bulk delivery operations, the delivery truck's filling tubes are sealed to the storage tank and all vapors are returned to the UST. This process stems the release of vapors. The vapors created by the filling operation are then subject to mechanical scrubbing and neutralization prior to release. The final component of the vapor recovery process is the diagnostic system. This electronic system provides 24-hour monitoring of the vapor recovery system, including collection of vapors during fueling operations and assurances that vapors in the UST are not leaking. The system identifies failures automatically, notifies the station operator, and reduces emissions by early detection and prompt repair. Compliance with SCAQMD Rule 461, Gasoline Storage and Dispensing, ensures that impacts due to gasoline dispensing emissions are limited because the required vapor recovery system controls at least 95 percent of the emissions occurring during the gasoline transfer and dispensing activities. Nonetheless, these emissions were estimated and included above. In **Tables 3 and 4**.

## ▪ Greenhouse Gas Analysis

Greenhouse gases (GHG) are not presented in lbs/day like criteria pollutants; they are typically evaluated on an annual basis using the metric system. Additionally, unlike criteria pollutants, GHG do not have adopted significance thresholds associated with them at this time. Several agencies, at various levels, have proposed draft GHG significance thresholds for use in CEQA documents. SCAQMD has been working on GHG thresholds for development projects. In December 2008, the SCAQMD adopted a threshold of 10,000 metric tonnes per year of carbon dioxide equivalents (MTCO<sub>2</sub>E/yr) for stationary source projects where SCAQMD is the lead agency. The most recent draft proposal was in September 2010<sup>11</sup> and included significance thresholds for residential, commercial, and mixed-use projects at 3,500, 1,400, and 3,000 MTCO<sub>2</sub>E/yr, respectively. Alternatively, a lead agency has the option to use 3,000 MTCO<sub>2</sub>E/yr as a threshold for all non-industrial projects. Although both options are recommended by SCAQMD, a lead agency is advised to use only one option and to use it consistently. The SCAQMD significance thresholds also evaluate construction emissions by amortizing them over an expected project life of 30 years. The CalEEMod output results for construction-related GHG emissions present the GHG emissions estimates for the Project for CO<sub>2</sub>, methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), and CO<sub>2</sub>E.<sup>12</sup>

## Short-Term Analysis

### Construction-Related Emissions

The CalEEMod model calculates GHG emissions from fuel usage by construction equipment and construction-related activities, like construction worker trips, for the Project. The CalEEMod estimate does not analyze emissions from construction-related electricity or natural gas. Construction-related electricity and natural gas emissions vary based on the amount of electric power used during construction and other unknown factors which make them too speculative to quantify.

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<sup>11</sup> [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-main-presentation.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-main-presentation.pdf?sfvrsn=2)

<sup>12</sup> CO<sub>2</sub>E is the sum of CO<sub>2</sub> emissions estimated plus the sum of CH<sub>4</sub> and N<sub>2</sub>O emissions estimated multiplied by their respective global warming potential (GWP).

**Table 6 – Project Construction Equipment GHG Emissions**

Year	Metric Tons per year (MT/yr)			
	Total CO <sub>2</sub>	Total CH <sub>4</sub>	Total N <sub>2</sub> O	Total CO <sub>2</sub> E
2021	233.33	0.04	0.00	234.21
Total	233.33	0.04	0.00	234.21
			<b>Amortized</b>	<b>7.81</b>

Evaluation of the table above indicates that an estimated 234.21 MTCO<sub>2</sub>E will occur from Project construction equipment over the course of the estimated construction period. The draft SCAQMD GHG threshold Guidance document released in October 2008<sup>13</sup> recommends that construction emissions be amortized for a project lifetime of 30 years to ensure that GHG reduction measures address construction GHG emissions as part of the operational reduction strategies. Therefore, the total GHG emissions from Project construction were amortized and are included in **Table 8**, below.

## Long-Term Analysis

### Area Source Emissions

CalEEMod estimates the GHG emissions associated with area sources which include landscape equipment emissions, architectural coating, consumer products, and hearths. Landscape equipment servicing the Project site create CO<sub>2</sub> resulting from fuel combustion based on the Project’s land uses. Consumer products consist of consumer use of solvents and personal care products and architectural coatings consist of an average building square footage to be repainted each year. Hearth emissions do not apply to the Project because no dwelling units are proposed. The CalEEMod output contained in the attached output shows that the GHG emissions from area sources are negligible and are reported at zero.

### Energy-Related Emissions

CalEEMod estimates the GHG emissions associated with building electricity and natural gas usage (non-hearth) for each land use type. Electricity and natural gas used in buildings is typically generated at an off-site power plant which indirectly generates GHG emissions. The default energy usage values used in CalEEMod are based on the CEC sponsored California Commercial End Use Survey and Residential Appliance Saturation Survey studies and reflect 2016 Title 24 improvements (CalEEMod User’s Guide, Appendix A). The default CO<sub>2</sub> electricity intensity factors within CalEEMod for Southern California Edison (SCE), which reflect 2012 data, were adjusted to reflect the most recent data available for 2019.<sup>14</sup> The default energy usage values were used in this analysis for the gasoline station, convenience store, and a fast-food restaurant with drive-thru portion of the Project. CalEEMod does not include a land use for car wash uses. Therefore, the proposed car wash was added into CalEEMod as a user-defined land use and an annual average for electricity consumption was entered based on data provided by the applicant.<sup>15</sup> As stated above, the Project’s energy emissions were also adjusted to reflect the 2019 Title 24 standards, which are 30 percent more efficient for nonresidential uses.<sup>16</sup> The following table summarizes the GHG emissions estimates reported by CalEEMod for the Project.

<sup>13</sup> [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-6/ghg-meeting-6-guidance-document-discussion.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-6/ghg-meeting-6-guidance-document-discussion.pdf?sfvrsn=2)

<sup>14</sup> <https://www.edison.com/content/dam/eix/documents/sustainability/eix-2019-sustainability-report-scorecard.pdf>

<sup>15</sup> The average annual electricity used by the proposed car wash was estimated to be 15,201 kilowatt-hours (kWh).

<sup>16</sup> The 2019 Title 24 standards are seven and 30 percent more efficient for residential and non-residential uses than the 2016 standards in CalEEMod: [https://www.energy.ca.gov/sites/default/files/2020-03/Title\\_24\\_2019\\_Building\\_Standards\\_FAQ\\_ada.pdf](https://www.energy.ca.gov/sites/default/files/2020-03/Title_24_2019_Building_Standards_FAQ_ada.pdf)



**Table 7 – Energy-Related GHG Emissions**

Source	Metric Tons per year (MT/yr)			
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	Total CO <sub>2</sub> E
Electricity	38.20	0.00	0.00	38.38
Natural Gas	23.96	0.00	0.00	24.10
<b>Total</b>	<b>62.16</b>	<b>0.00</b>	<b>0.00</b>	<b>62.48</b>

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

### Mobile Source Emissions

CalEEMod estimates the annual GHG emissions from Project-related vehicle usage based on trip generation data contained in defaults or in a project-specific traffic analyses. The trip generation data used in the model was based on data contained in the Project-specific Traffic Study.<sup>17</sup> **Table 8** shows the mobile source emissions from the Project.

### Solid Waste Emissions

CalEEMod also calculates the GHG emissions associated with the disposal of solid waste into landfills based on default data contained within the model for waste disposal rates, composition, and the characteristics of landfills throughout the state. A large percentage of this waste will be diverted from landfills by a variety of means, such as reducing the amount of waste generated, recycling, and/or composting. The remainder of the waste not diverted will be disposed of at a landfill. This analysis assumes a solid waste diversion from the landfills consistent with data provided by the state. Conservatively, this was assumed as 62 percent,<sup>18</sup>. The waste diversion rate was evaluated in the model by selecting the mitigation option for solid waste and **Table 8** shows the solid waste emissions from the Project utilizing this waste reduction rate.

### Water-Related Energy Usage

Electricity is also indirectly used in water supply, treatment, and distribution, as well as wastewater treatment in Southern California and plays a large role in GHG production.

There are three processes necessary to supply potable water to urban users (i.e., residential, commercial, and industrial): (1) supply and conveyance of the water from the source; (2) treatment of the water to potable standards; and (3) distribution of the water to individual users. After use, the wastewater is treated and either reused as reclaimed/recycled water or returned to the environment. CalEEMod calculates the GHG emissions from these processes based on default emissions factors and water/wastewater generation rates for a project’s location. Default values were used for electricity intensity factor associated with the supply and conveyance of water from its source which assumes that the water is being imported from Northern California. Defaults were used for water consumption from the gasoline station, convenience store, and fast-food restaurant with drive-thru portions of the Project. Because CalEEMod does not contain a land use type for a car wash, average annual water usage was provided by the applicant and input into CalEEMod. The car wash is estimated to use 269,444 gallons of water per year, of which approximately 85 percent will be recycled and reused on-site. The Project’s emissions were also adjusted to account for the CalGreen building code which requires a 20 percent reduction in indoor water use. Compliance with the CalGreen code was evaluated in the model by selecting the mitigation option for reduction in indoor water use and **Table 8** shows the resulting GHG emissions from water-related energy usage for the Project.

### Total Project GHG Emissions

As shown on **Table 8 – Total Project-Related GHG Emissions**, using all the emissions quantified above, the total GHG emissions generated from the Project is approximately 2,901.05 MTCO<sub>2</sub>E/yr which includes construction-related emissions amortized over a typical project life of 30 years.

<sup>17</sup> Albert A. Webb Associates, *Revised Traffic Impact Analysis Motte Country Plaza*, June 2020. Subsequent to the time the analysis herein was prepared, the TIA was updated. However, no revision to the Project’s trip generation was required. Thus, while the City-approved TIA is dated January 2021, no changes to this analysis are required.

<sup>18</sup> CalRecycle, California’s Estimated Statewide Diversion Rates Since 1989, webpage. Available at: <https://www.calrecycle.ca.gov/lgcentral/goalmeasure/disposalrate/graphs/estdiversion>, accessed June 10, 2020.

**Table 8 – Total Project-Related GHG Emissions**

Source	Metric Tons per year (MT/yr)			
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	Total CO <sub>2</sub> E
Amortized Construction	--	--	--	7.81
Energy	62.16	0.00	0.00	62.48
Mobile	2,816.30	0.24	0.00	2,822.27
Solid Waste	1.87	0.11	0.00	4.62
Water	3.05	0.03	0.00	3.87
<b>Total</b>	<b>2,883.38</b>	<b>0.38</b>	<b>0.00</b>	<b>2,901.05</b>

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

The total GHG emissions from the Project are below the SCAQMD recommended screening level of 3,000 MTCO<sub>2</sub>E/yr for non-industrial projects under Option 2. Therefore, the proposed Project will not exceed the draft GHG screening threshold provided by SCAQMD.

▪ **Conclusion**

The conclusion of this analysis indicates that construction and operation of the proposed Project will not exceed criteria pollutant thresholds established by SCAQMD on a regional or localized level. The Project will not create a CO hot spot. The Project will also not exceed the draft GHG screening threshold recommended by SCAQMD. No mitigation is required. Should you have any questions, please contact me at (951) 686-1070.

## **CALEEMOD OUTPUT FILES**

Motte Country Plaza - Riverside-South Coast County, Summer

**Motte Country Plaza**  
**Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Convenience Market With Gas Pumps	16.00	Pump	0.05	4,815.00	0
Fast Food Restaurant with Drive Thru	1.76	1000sqft	0.04	1,763.00	0
User Defined Retail	1.03	User Defined Unit	0.02	1,030.00	0
Parking Lot	0.78	Acre	0.78	33,976.80	0
Other Non-Asphalt Surfaces	1.05	Acre	1.05	45,738.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	531.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Motte Country Plaza - Riverside-South Coast County, Summer

Project Characteristics - carbon intensity updated with current SCE data

Land Use - site disturbs 1.43 ac + 0.51 offsite utility

Construction Phase - per applicant

Off-road Equipment - per applicant

Off-road Equipment - per applicant. 8-hr day

Off-road Equipment - per applicant; 8-hr day

Off-road Equipment - 8-hr day

Off-road Equipment - 8-hr day

Trips and VMT - 2 water truck trips added per day for site preparation, grading, and paving

Vehicle Trips - per TIA; weekend rates per traffic engineers

Energy Use - per applicant

Water And Wastewater - per applicant

Solid Waste - per CalEEMod rate for gas/service station (3.82 ton/site/yr)

Construction Off-road Equipment Mitigation - water site 3x daily per Rule 403

Energy Mitigation - 30% reduction per 2019 Title 24

Water Mitigation - per Calgreen code

Waste Mitigation - per Calrecycle

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	176.00
tblConstructionPhase	NumDays	4.00	5.00
tblConstructionPhase	PhaseEndDate	1/10/2022	11/10/2021
tblConstructionPhase	PhaseEndDate	12/13/2021	11/10/2021
tblConstructionPhase	PhaseEndDate	3/8/2021	3/9/2021
tblConstructionPhase	PhaseEndDate	12/27/2021	11/10/2021
tblConstructionPhase	PhaseStartDate	12/28/2021	10/28/2021
tblConstructionPhase	PhaseStartDate	3/9/2021	3/10/2021

Motte Country Plaza - Riverside-South Coast County, Summer

tblConstructionPhase	PhaseStartDate	12/14/2021	10/28/2021
tblEnergyUse	NT24E	0.00	14.76
tblGrading	AcresOfGrading	2.50	1.50
tblLandUse	LandUseSquareFeet	2,258.80	4,815.00
tblLandUse	LandUseSquareFeet	1,760.00	1,763.00
tblLandUse	LandUseSquareFeet	0.00	1,030.00
tblLandUse	LotAcreage	0.00	0.02
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblSolidWaste	SolidWasteGenerationRate	0.00	3.93
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

Motte Country Plaza - Riverside-South Coast County, Summer

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	CC_TTP	0.00	80.20
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	0.80
tblVehicleTrips	DV_TP	21.00	73.00
tblVehicleTrips	DV_TP	21.00	63.00
tblVehicleTrips	DV_TP	0.00	73.00
tblVehicleTrips	PB_TP	65.00	13.00
tblVehicleTrips	PB_TP	50.00	8.00
tblVehicleTrips	PB_TP	0.00	13.00
tblVehicleTrips	PR_TP	0.00	14.00
tblVehicleTrips	ST_TR	204.47	231.25
tblVehicleTrips	ST_TR	722.03	629.04
tblVehicleTrips	ST_TR	0.00	92.20
tblVehicleTrips	SU_TR	166.88	231.25
tblVehicleTrips	SU_TR	542.72	482.70
tblVehicleTrips	SU_TR	0.00	92.20
tblVehicleTrips	WD_TR	542.60	230.50
tblVehicleTrips	WD_TR	496.12	481.00
tblVehicleTrips	WD_TR	0.00	92.20
tblWater	IndoorWaterUseRate	0.00	269,444.00

**2.0 Emissions Summary**

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Motte Country Plaza - Riverside-South Coast County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2045	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.5100e-003	4.5100e-003	1.0000e-005		4.8100e-003
Energy	0.0146	0.1324	0.1112	7.9000e-004		0.0101	0.0101		0.0101	0.0101		158.8281	158.8281	3.0400e-003	2.9100e-003	159.7719
Mobile	7.1085	47.0356	45.8075	0.1862	11.0074	0.1171	11.1244	2.9450	0.1095	3.0545		19,107.1930	19,107.1930	1.4722		19,143.9986
<b>Total</b>	<b>7.3276</b>	<b>47.1680</b>	<b>45.9208</b>	<b>0.1870</b>	<b>11.0074</b>	<b>0.1271</b>	<b>11.1345</b>	<b>2.9450</b>	<b>0.1196</b>	<b>3.0645</b>		<b>19,266.0255</b>	<b>19,266.0255</b>	<b>1.4753</b>	<b>2.9100e-003</b>	<b>19,303.7753</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2045	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.5100e-003	4.5100e-003	1.0000e-005		4.8100e-003
Energy	0.0133	0.1206	0.1013	7.2000e-004		9.1600e-003	9.1600e-003		9.1600e-003	9.1600e-003		144.6933	144.6933	2.7700e-003	2.6500e-003	145.5531
Mobile	7.1085	47.0356	45.8075	0.1862	11.0074	0.1171	11.1244	2.9450	0.1095	3.0545		19,107.1930	19,107.1930	1.4722		19,143.9986
<b>Total</b>	<b>7.3263</b>	<b>47.1562</b>	<b>45.9109</b>	<b>0.1869</b>	<b>11.0074</b>	<b>0.1262</b>	<b>11.1336</b>	<b>2.9450</b>	<b>0.1187</b>	<b>3.0636</b>		<b>19,251.8908</b>	<b>19,251.8908</b>	<b>1.4750</b>	<b>2.6500e-003</b>	<b>19,289.5565</b>

## Motte Country Plaza - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.02	0.02	0.02	0.04	0.00	0.71	0.01	0.00	0.75	0.03	0.00	0.07	0.07	0.02	8.93	0.07

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2021	3/2/2021	5	2	
2	Grading	Grading	3/3/2021	3/9/2021	5	5	
3	Building Construction	Building Construction	3/10/2021	11/10/2021	5	176	
4	Paving	Paving	10/28/2021	11/10/2021	5	10	
5	Architectural Coating	Architectural Coating	10/28/2021	11/10/2021	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 1.83

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 11,412; Non-Residential Outdoor: 3,804; Striped Parking Area: 4,783 (Architectural Coating – sqft)

#### OffRoad Equipment

## Motte Country Plaza - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Site Preparation	Excavators	1	8.00	158	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	0	6.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Grading	Crushing/Proc. Equipment	1	8.00	85	0.78
Grading	Rubber Tired Dozers	0	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Motte Country Plaza - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	36.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.0567	11.8696	9.5595	0.0180		0.5157	0.5157		0.4744	0.4744		1,743.676 2	1,743.676 2	0.5639		1,757.774 7
<b>Total</b>	<b>1.0567</b>	<b>11.8696</b>	<b>9.5595</b>	<b>0.0180</b>	<b>0.5303</b>	<b>0.5157</b>	<b>1.0459</b>	<b>0.0573</b>	<b>0.4744</b>	<b>0.5317</b>		<b>1,743.676 2</b>	<b>1,743.676 2</b>	<b>0.5639</b>		<b>1,757.774 7</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0474	0.0270	0.3697	1.0700e-003	0.1118	6.6000e-004	0.1124	0.0296	6.1000e-004	0.0303		106.4751	106.4751	2.5400e-003		106.5386
<b>Total</b>	<b>0.0521</b>	<b>0.2121</b>	<b>0.4027</b>	<b>1.5900e-003</b>	<b>0.1246</b>	<b>1.0100e-003</b>	<b>0.1256</b>	<b>0.0333</b>	<b>9.5000e-004</b>	<b>0.0343</b>		<b>161.1253</b>	<b>161.1253</b>	<b>6.4500e-003</b>		<b>161.2865</b>

**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					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	1.0567	11.8696	9.5595	0.0180		0.5157	0.5157		0.4744	0.4744	0.0000	1,743.6762	1,743.6762	0.5639		1,757.7747
<b>Total</b>	<b>1.0567</b>	<b>11.8696</b>	<b>9.5595</b>	<b>0.0180</b>	<b>0.2068</b>	<b>0.5157</b>	<b>0.7225</b>	<b>0.0223</b>	<b>0.4744</b>	<b>0.4968</b>	<b>0.0000</b>	<b>1,743.6762</b>	<b>1,743.6762</b>	<b>0.5639</b>		<b>1,757.7747</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0474	0.0270	0.3697	1.0700e-003	0.1118	6.6000e-004	0.1124	0.0296	6.1000e-004	0.0303		106.4751	106.4751	2.5400e-003		106.5386
<b>Total</b>	<b>0.0521</b>	<b>0.2121</b>	<b>0.4027</b>	<b>1.5900e-003</b>	<b>0.1246</b>	<b>1.0100e-003</b>	<b>0.1256</b>	<b>0.0333</b>	<b>9.5000e-004</b>	<b>0.0343</b>		<b>161.1253</b>	<b>161.1253</b>	<b>6.4500e-003</b>		<b>161.2865</b>

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3182	0.0000	0.3182	0.0344	0.0000	0.0344			0.0000			0.0000
Off-Road	1.3397	13.2113	10.6271	0.0199		0.6194	0.6194		0.5865	0.5865		1,908.0144	1,908.0144	0.4478		1,919.2087
<b>Total</b>	<b>1.3397</b>	<b>13.2113</b>	<b>10.6271</b>	<b>0.0199</b>	<b>0.3182</b>	<b>0.6194</b>	<b>0.9375</b>	<b>0.0344</b>	<b>0.5865</b>	<b>0.6208</b>		<b>1,908.0144</b>	<b>1,908.0144</b>	<b>0.4478</b>		<b>1,919.2087</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**3.3 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0474	0.0270	0.3697	1.0700e-003	0.1118	6.6000e-004	0.1124	0.0296	6.1000e-004	0.0303		106.4751	106.4751	2.5400e-003		106.5386
<b>Total</b>	<b>0.0521</b>	<b>0.2121</b>	<b>0.4027</b>	<b>1.5900e-003</b>	<b>0.1246</b>	<b>1.0100e-003</b>	<b>0.1256</b>	<b>0.0333</b>	<b>9.5000e-004</b>	<b>0.0343</b>		<b>161.1253</b>	<b>161.1253</b>	<b>6.4500e-003</b>		<b>161.2865</b>

**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					0.1241	0.0000	0.1241	0.0134	0.0000	0.0134			0.0000			0.0000
Off-Road	1.3397	13.2113	10.6271	0.0199		0.6194	0.6194		0.5865	0.5865	0.0000	1,908.0144	1,908.0144	0.4478		1,919.2087
<b>Total</b>	<b>1.3397</b>	<b>13.2113</b>	<b>10.6271</b>	<b>0.0199</b>	<b>0.1241</b>	<b>0.6194</b>	<b>0.7435</b>	<b>0.0134</b>	<b>0.5865</b>	<b>0.5999</b>	<b>0.0000</b>	<b>1,908.0144</b>	<b>1,908.0144</b>	<b>0.4478</b>		<b>1,919.2087</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**3.3 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0474	0.0270	0.3697	1.0700e-003	0.1118	6.6000e-004	0.1124	0.0296	6.1000e-004	0.0303		106.4751	106.4751	2.5400e-003		106.5386
<b>Total</b>	<b>0.0521</b>	<b>0.2121</b>	<b>0.4027</b>	<b>1.5900e-003</b>	<b>0.1246</b>	<b>1.0100e-003</b>	<b>0.1256</b>	<b>0.0333</b>	<b>9.5000e-004</b>	<b>0.0343</b>		<b>161.1253</b>	<b>161.1253</b>	<b>6.4500e-003</b>		<b>161.2865</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7692	12.6636	14.5295	0.0220		0.6973	0.6973		0.6727	0.6727		1,995.2987	1,995.2987	0.3554		2,004.1826
<b>Total</b>	<b>1.7692</b>	<b>12.6636</b>	<b>14.5295</b>	<b>0.0220</b>		<b>0.6973</b>	<b>0.6973</b>		<b>0.6727</b>	<b>0.6727</b>		<b>1,995.2987</b>	<b>1,995.2987</b>	<b>0.3554</b>		<b>2,004.1826</b>



Motte Country Plaza - Riverside-South Coast County, Summer

**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0327	1.2956	0.2312	3.6300e-003	0.0897	2.4600e-003	0.0921	0.0258	2.3600e-003	0.0282		382.5514	382.5514	0.0274		383.2356
Worker	0.1707	0.0972	1.3310	3.8500e-003	0.4024	2.3700e-003	0.4048	0.1067	2.1800e-003	0.1089		383.3103	383.3103	9.1400e-003		383.5388
<b>Total</b>	<b>0.2034</b>	<b>1.3928</b>	<b>1.5621</b>	<b>7.4800e-003</b>	<b>0.4921</b>	<b>4.8300e-003</b>	<b>0.4969</b>	<b>0.1325</b>	<b>4.5400e-003</b>	<b>0.1371</b>		<b>765.8618</b>	<b>765.8618</b>	<b>0.0365</b>		<b>766.7745</b>

**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	1.7692	12.6636	14.5295	0.0220		0.6973	0.6973		0.6727	0.6727	0.0000	1,995.2987	1,995.2987	0.3554		2,004.1826
<b>Total</b>	<b>1.7692</b>	<b>12.6636</b>	<b>14.5295</b>	<b>0.0220</b>		<b>0.6973</b>	<b>0.6973</b>		<b>0.6727</b>	<b>0.6727</b>	<b>0.0000</b>	<b>1,995.2987</b>	<b>1,995.2987</b>	<b>0.3554</b>		<b>2,004.1826</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**3.4 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0327	1.2956	0.2312	3.6300e-003	0.0897	2.4600e-003	0.0921	0.0258	2.3600e-003	0.0282		382.5514	382.5514	0.0274		383.2356
Worker	0.1707	0.0972	1.3310	3.8500e-003	0.4024	2.3700e-003	0.4048	0.1067	2.1800e-003	0.1089		383.3103	383.3103	9.1400e-003		383.5388
<b>Total</b>	<b>0.2034</b>	<b>1.3928</b>	<b>1.5621</b>	<b>7.4800e-003</b>	<b>0.4921</b>	<b>4.8300e-003</b>	<b>0.4969</b>	<b>0.1325</b>	<b>4.5400e-003</b>	<b>0.1371</b>		<b>765.8618</b>	<b>765.8618</b>	<b>0.0365</b>		<b>766.7745</b>

**3.5 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8738	8.7235	9.8952	0.0152		0.4650	0.4650		0.4289	0.4289		1,455.0218	1,455.0218	0.4595		1,466.5091
Paving	0.2044					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0782</b>	<b>8.7235</b>	<b>9.8952</b>	<b>0.0152</b>		<b>0.4650</b>	<b>0.4650</b>		<b>0.4289</b>	<b>0.4289</b>		<b>1,455.0218</b>	<b>1,455.0218</b>	<b>0.4595</b>		<b>1,466.5091</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**3.5 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0616	0.0351	0.4806	1.3900e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		138.4176	138.4176	3.3000e-003		138.5001
<b>Total</b>	<b>0.0663</b>	<b>0.2202</b>	<b>0.5137</b>	<b>1.9100e-003</b>	<b>0.1581</b>	<b>1.2100e-003</b>	<b>0.1593</b>	<b>0.0422</b>	<b>1.1300e-003</b>	<b>0.0434</b>		<b>193.0678</b>	<b>193.0678</b>	<b>7.2100e-003</b>		<b>193.2481</b>

**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	0.8738	8.7235	9.8952	0.0152		0.4650	0.4650		0.4289	0.4289	0.0000	1,455.0218	1,455.0218	0.4595		1,466.5091
Paving	0.2044					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0782</b>	<b>8.7235</b>	<b>9.8952</b>	<b>0.0152</b>		<b>0.4650</b>	<b>0.4650</b>		<b>0.4289</b>	<b>0.4289</b>	<b>0.0000</b>	<b>1,455.0218</b>	<b>1,455.0218</b>	<b>0.4595</b>		<b>1,466.5091</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**3.5 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0616	0.0351	0.4806	1.3900e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		138.4176	138.4176	3.3000e-003		138.5001
<b>Total</b>	<b>0.0663</b>	<b>0.2202</b>	<b>0.5137</b>	<b>1.9100e-003</b>	<b>0.1581</b>	<b>1.2100e-003</b>	<b>0.1593</b>	<b>0.0422</b>	<b>1.1300e-003</b>	<b>0.0434</b>		<b>193.0678</b>	<b>193.0678</b>	<b>7.2100e-003</b>		<b>193.2481</b>

**3.6 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.2695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255		375.2641	375.2641	0.0258		375.9079
<b>Total</b>	<b>9.5614</b>	<b>2.0358</b>	<b>2.4234</b>	<b>3.9600e-003</b>		<b>0.1255</b>	<b>0.1255</b>		<b>0.1255</b>	<b>0.1255</b>		<b>375.2641</b>	<b>375.2641</b>	<b>0.0258</b>		<b>375.9079</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**3.6 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0332	0.0189	0.2588	7.5000e-004	0.0782	4.6000e-004	0.0787	0.0208	4.2000e-004	0.0212		74.5326	74.5326	1.7800e-003		74.5770
<b>Total</b>	<b>0.0332</b>	<b>0.0189</b>	<b>0.2588</b>	<b>7.5000e-004</b>	<b>0.0782</b>	<b>4.6000e-004</b>	<b>0.0787</b>	<b>0.0208</b>	<b>4.2000e-004</b>	<b>0.0212</b>		<b>74.5326</b>	<b>74.5326</b>	<b>1.7800e-003</b>		<b>74.5770</b>

**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	9.2695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255	0.0000	375.2641	375.2641	0.0258		375.9079
<b>Total</b>	<b>9.5614</b>	<b>2.0358</b>	<b>2.4234</b>	<b>3.9600e-003</b>		<b>0.1255</b>	<b>0.1255</b>		<b>0.1255</b>	<b>0.1255</b>	<b>0.0000</b>	<b>375.2641</b>	<b>375.2641</b>	<b>0.0258</b>		<b>375.9079</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**3.6 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0332	0.0189	0.2588	7.5000e-004	0.0782	4.6000e-004	0.0787	0.0208	4.2000e-004	0.0212		74.5326	74.5326	1.7800e-003		74.5770
<b>Total</b>	<b>0.0332</b>	<b>0.0189</b>	<b>0.2588</b>	<b>7.5000e-004</b>	<b>0.0782</b>	<b>4.6000e-004</b>	<b>0.0787</b>	<b>0.0208</b>	<b>4.2000e-004</b>	<b>0.0212</b>		<b>74.5326</b>	<b>74.5326</b>	<b>1.7800e-003</b>		<b>74.5770</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Motte Country Plaza - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.1085	47.0356	45.8075	0.1862	11.0074	0.1171	11.1244	2.9450	0.1095	3.0545		19,107.1930	19,107.1930	1.4722		19,143.9986
Unmitigated	7.1085	47.0356	45.8075	0.1862	11.0074	0.1171	11.1244	2.9450	0.1095	3.0545		19,107.1930	19,107.1930	1.4722		19,143.9986

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market With Gas Pumps	3,688.00	3,700.00	3700.00	3,562,423	3,562,423
Fast Food Restaurant with Drive Thru	846.56	1,107.11	849.55	1,197,351	1,197,351
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Retail	94.97	94.97	94.97	91,647	91,647
<b>Total</b>	<b>4,629.53</b>	<b>4,902.08</b>	<b>4,644.52</b>	<b>4,851,421</b>	<b>4,851,421</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market With Gas	16.60	8.40	6.90	0.80	80.20	19.00	14	73	13
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	63	8
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Retail	16.60	8.40	6.90	0.80	80.20	19.00	14	73	13

Motte Country Plaza - Riverside-South Coast County, Summer

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market With Gas Pumps	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Fast Food Restaurant with Drive Thru	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Non-Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
User Defined Retail	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	0.0133	0.1206	0.1013	7.2000e-004		9.1600e-003	9.1600e-003		9.1600e-003	9.1600e-003		144.6933	144.6933	2.7700e-003	2.6500e-003	145.5531
NaturalGas Unmitigated	0.0146	0.1324	0.1112	7.9000e-004		0.0101	0.0101		0.0101	0.0101		158.8281	158.8281	3.0400e-003	2.9100e-003	159.7719



Motte Country Plaza - Riverside-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market With Gas Pumps	29.2858	3.2000e-004	2.8700e-003	2.4100e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		3.4454	3.4454	7.0000e-005	6.0000e-005	3.4659
Fast Food Restaurant with Drive Thru	1320.75	0.0142	0.1295	0.1088	7.8000e-004		9.8400e-003	9.8400e-003		9.8400e-003	9.8400e-003		155.3827	155.3827	2.9800e-003	2.8500e-003	156.3060
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Retail	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
<b>Total</b>		<b>0.0146</b>	<b>0.1324</b>	<b>0.1112</b>	<b>8.0000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>0.0101</b>	<b>0.0101</b>		<b>158.8281</b>	<b>158.8281</b>	<b>3.0500e-003</b>	<b>2.9100e-003</b>	<b>159.7719</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market With Gas Pumps	0.0216873	2.3000e-004	2.1300e-003	1.7900e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		2.5515	2.5515	5.0000e-005	5.0000e-005	2.5666
Fast Food Restaurant with Drive Thru	1.20821	0.0130	0.1185	0.0995	7.1000e-004		9.0000e-003	9.0000e-003		9.0000e-003	9.0000e-003		142.1418	142.1418	2.7200e-003	2.6100e-003	142.9865
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Retail	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
<b>Total</b>		<b>0.0133</b>	<b>0.1206</b>	<b>0.1013</b>	<b>7.2000e-004</b>		<b>9.1600e-003</b>	<b>9.1600e-003</b>		<b>9.1600e-003</b>	<b>9.1600e-003</b>		<b>144.6933</b>	<b>144.6933</b>	<b>2.7700e-003</b>	<b>2.6600e-003</b>	<b>145.5531</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Motte Country Plaza - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2045	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.5100e-003	4.5100e-003	1.0000e-005		4.8100e-003
Unmitigated	0.2045	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.5100e-003	4.5100e-003	1.0000e-005		4.8100e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0254					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1789					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.5100e-003	4.5100e-003	1.0000e-005		4.8100e-003
<b>Total</b>	<b>0.2045</b>	<b>2.0000e-005</b>	<b>2.1100e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.5100e-003</b>	<b>4.5100e-003</b>	<b>1.0000e-005</b>		<b>4.8100e-003</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0254					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1789					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.5100e-003	4.5100e-003	1.0000e-005		4.8100e-003
<b>Total</b>	<b>0.2045</b>	<b>2.0000e-005</b>	<b>2.1100e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.5100e-003</b>	<b>4.5100e-003</b>	<b>1.0000e-005</b>		<b>4.8100e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Motte Country Plaza - Riverside-South Coast County, Summer

**10.0 Stationary Equipment**

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**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**

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Motte Country Plaza - Riverside-South Coast County, Summer

**Motte Country Plaza**  
**Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Convenience Market With Gas Pumps	16.00	Pump	0.05	4,815.00	0
Fast Food Restaurant with Drive Thru	1.76	1000sqft	0.04	1,763.00	0
User Defined Retail	1.03	User Defined Unit	0.02	1,030.00	0
Parking Lot	0.78	Acre	0.78	33,976.80	0
Other Non-Asphalt Surfaces	1.05	Acre	1.05	45,738.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	531.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Motte Country Plaza - Riverside-South Coast County, Summer

Project Characteristics - carbon intensity updated with current SCE data

Land Use - site disturbs 1.43 ac + 0.51 offsite utility

Construction Phase - per applicant

Off-road Equipment - per applicant

Off-road Equipment - per applicant. 8-hr day

Off-road Equipment - per applicant; 8-hr day

Off-road Equipment - 8-hr day

Off-road Equipment - 8-hr day

Trips and VMT - 2 water truck trips added per day for site preparation, grading, and paving

Vehicle Trips - per TIA; weekend rates per traffic engineers

Energy Use - per applicant

Water And Wastewater - per applicant

Solid Waste - per CalEEMod rate for gas/service station (3.82 ton/site/yr)

Construction Off-road Equipment Mitigation - water site 3x daily per Rule 403

Energy Mitigation - 30% reduction per 2019 Title 24

Water Mitigation - per Calgreen code

Waste Mitigation - per Calrecycle

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	176.00
tblConstructionPhase	NumDays	4.00	5.00
tblConstructionPhase	PhaseEndDate	1/10/2022	11/10/2021
tblConstructionPhase	PhaseEndDate	12/13/2021	11/10/2021
tblConstructionPhase	PhaseEndDate	3/8/2021	3/9/2021
tblConstructionPhase	PhaseEndDate	12/27/2021	11/10/2021
tblConstructionPhase	PhaseStartDate	12/28/2021	10/28/2021
tblConstructionPhase	PhaseStartDate	3/9/2021	3/10/2021

Motte Country Plaza - Riverside-South Coast County, Summer

tblConstructionPhase	PhaseStartDate	12/14/2021	10/28/2021
tblEnergyUse	NT24E	0.00	14.76
tblGrading	AcresOfGrading	2.50	1.50
tblLandUse	LandUseSquareFeet	2,258.80	4,815.00
tblLandUse	LandUseSquareFeet	1,760.00	1,763.00
tblLandUse	LandUseSquareFeet	0.00	1,030.00
tblLandUse	LotAcreage	0.00	0.02
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblSolidWaste	SolidWasteGenerationRate	0.00	3.93
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00



## Motte Country Plaza - Riverside-South Coast County, Summer

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	CC_TTP	0.00	80.20
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	0.80
tblVehicleTrips	DV_TP	21.00	73.00
tblVehicleTrips	DV_TP	21.00	63.00
tblVehicleTrips	DV_TP	0.00	73.00
tblVehicleTrips	PB_TP	65.00	13.00
tblVehicleTrips	PB_TP	50.00	8.00
tblVehicleTrips	PB_TP	0.00	13.00
tblVehicleTrips	PR_TP	0.00	14.00
tblVehicleTrips	ST_TR	204.47	231.25
tblVehicleTrips	ST_TR	722.03	629.04
tblVehicleTrips	ST_TR	0.00	92.20
tblVehicleTrips	SU_TR	166.88	231.25
tblVehicleTrips	SU_TR	542.72	482.70
tblVehicleTrips	SU_TR	0.00	92.20
tblVehicleTrips	WD_TR	542.60	230.50
tblVehicleTrips	WD_TR	496.12	481.00
tblVehicleTrips	WD_TR	0.00	92.20
tblWater	IndoorWaterUseRate	0.00	269,444.00

## 2.0 Emissions Summary

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Motte Country Plaza - Riverside-South Coast County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2045	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.5100e-003	4.5100e-003	1.0000e-005		4.8100e-003
Energy	0.0146	0.1324	0.1112	7.9000e-004		0.0101	0.0101		0.0101	0.0101		158.8281	158.8281	3.0400e-003	2.9100e-003	159.7719
Mobile	7.1085	47.0356	45.8075	0.1862	11.0074	0.1171	11.1244	2.9450	0.1095	3.0545		19,107.1930	19,107.1930	1.4722		19,143.9986
<b>Total</b>	<b>7.3276</b>	<b>47.1680</b>	<b>45.9208</b>	<b>0.1870</b>	<b>11.0074</b>	<b>0.1271</b>	<b>11.1345</b>	<b>2.9450</b>	<b>0.1196</b>	<b>3.0645</b>		<b>19,266.0255</b>	<b>19,266.0255</b>	<b>1.4753</b>	<b>2.9100e-003</b>	<b>19,303.7753</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2045	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.5100e-003	4.5100e-003	1.0000e-005		4.8100e-003
Energy	0.0133	0.1206	0.1013	7.2000e-004		9.1600e-003	9.1600e-003		9.1600e-003	9.1600e-003		144.6933	144.6933	2.7700e-003	2.6500e-003	145.5531
Mobile	7.1085	47.0356	45.8075	0.1862	11.0074	0.1171	11.1244	2.9450	0.1095	3.0545		19,107.1930	19,107.1930	1.4722		19,143.9986
<b>Total</b>	<b>7.3263</b>	<b>47.1562</b>	<b>45.9109</b>	<b>0.1869</b>	<b>11.0074</b>	<b>0.1262</b>	<b>11.1336</b>	<b>2.9450</b>	<b>0.1187</b>	<b>3.0636</b>		<b>19,251.8908</b>	<b>19,251.8908</b>	<b>1.4750</b>	<b>2.6500e-003</b>	<b>19,289.5565</b>

## Motte Country Plaza - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.02	0.02	0.02	0.04	0.00	0.71	0.01	0.00	0.75	0.03	0.00	0.07	0.07	0.02	8.93	0.07

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2021	3/2/2021	5	2	
2	Grading	Grading	3/3/2021	3/9/2021	5	5	
3	Building Construction	Building Construction	3/10/2021	11/10/2021	5	176	
4	Paving	Paving	10/28/2021	11/10/2021	5	10	
5	Architectural Coating	Architectural Coating	10/28/2021	11/10/2021	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 1.83

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 11,412; Non-Residential Outdoor: 3,804; Striped Parking Area: 4,783 (Architectural Coating – sqft)

#### OffRoad Equipment

## Motte Country Plaza - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Site Preparation	Excavators	1	8.00	158	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	0	6.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Grading	Crushing/Proc. Equipment	1	8.00	85	0.78
Grading	Rubber Tired Dozers	0	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Motte Country Plaza - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	36.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.0567	11.8696	9.5595	0.0180		0.5157	0.5157		0.4744	0.4744		1,743.676 2	1,743.676 2	0.5639		1,757.774 7
<b>Total</b>	<b>1.0567</b>	<b>11.8696</b>	<b>9.5595</b>	<b>0.0180</b>	<b>0.5303</b>	<b>0.5157</b>	<b>1.0459</b>	<b>0.0573</b>	<b>0.4744</b>	<b>0.5317</b>		<b>1,743.676 2</b>	<b>1,743.676 2</b>	<b>0.5639</b>		<b>1,757.774 7</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0474	0.0270	0.3697	1.0700e-003	0.1118	6.6000e-004	0.1124	0.0296	6.1000e-004	0.0303		106.4751	106.4751	2.5400e-003		106.5386
<b>Total</b>	<b>0.0521</b>	<b>0.2121</b>	<b>0.4027</b>	<b>1.5900e-003</b>	<b>0.1246</b>	<b>1.0100e-003</b>	<b>0.1256</b>	<b>0.0333</b>	<b>9.5000e-004</b>	<b>0.0343</b>		<b>161.1253</b>	<b>161.1253</b>	<b>6.4500e-003</b>		<b>161.2865</b>

**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					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	1.0567	11.8696	9.5595	0.0180		0.5157	0.5157		0.4744	0.4744	0.0000	1,743.6762	1,743.6762	0.5639		1,757.7747
<b>Total</b>	<b>1.0567</b>	<b>11.8696</b>	<b>9.5595</b>	<b>0.0180</b>	<b>0.2068</b>	<b>0.5157</b>	<b>0.7225</b>	<b>0.0223</b>	<b>0.4744</b>	<b>0.4968</b>	<b>0.0000</b>	<b>1,743.6762</b>	<b>1,743.6762</b>	<b>0.5639</b>		<b>1,757.7747</b>

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**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0474	0.0270	0.3697	1.0700e-003	0.1118	6.6000e-004	0.1124	0.0296	6.1000e-004	0.0303		106.4751	106.4751	2.5400e-003		106.5386
<b>Total</b>	<b>0.0521</b>	<b>0.2121</b>	<b>0.4027</b>	<b>1.5900e-003</b>	<b>0.1246</b>	<b>1.0100e-003</b>	<b>0.1256</b>	<b>0.0333</b>	<b>9.5000e-004</b>	<b>0.0343</b>		<b>161.1253</b>	<b>161.1253</b>	<b>6.4500e-003</b>		<b>161.2865</b>

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3182	0.0000	0.3182	0.0344	0.0000	0.0344			0.0000			0.0000
Off-Road	1.3397	13.2113	10.6271	0.0199		0.6194	0.6194		0.5865	0.5865		1,908.0144	1,908.0144	0.4478		1,919.2087
<b>Total</b>	<b>1.3397</b>	<b>13.2113</b>	<b>10.6271</b>	<b>0.0199</b>	<b>0.3182</b>	<b>0.6194</b>	<b>0.9375</b>	<b>0.0344</b>	<b>0.5865</b>	<b>0.6208</b>		<b>1,908.0144</b>	<b>1,908.0144</b>	<b>0.4478</b>		<b>1,919.2087</b>



Motte Country Plaza - Riverside-South Coast County, Summer

**3.3 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0474	0.0270	0.3697	1.0700e-003	0.1118	6.6000e-004	0.1124	0.0296	6.1000e-004	0.0303		106.4751	106.4751	2.5400e-003		106.5386
<b>Total</b>	<b>0.0521</b>	<b>0.2121</b>	<b>0.4027</b>	<b>1.5900e-003</b>	<b>0.1246</b>	<b>1.0100e-003</b>	<b>0.1256</b>	<b>0.0333</b>	<b>9.5000e-004</b>	<b>0.0343</b>		<b>161.1253</b>	<b>161.1253</b>	<b>6.4500e-003</b>		<b>161.2865</b>

**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					0.1241	0.0000	0.1241	0.0134	0.0000	0.0134			0.0000			0.0000
Off-Road	1.3397	13.2113	10.6271	0.0199		0.6194	0.6194		0.5865	0.5865	0.0000	1,908.0144	1,908.0144	0.4478		1,919.2087
<b>Total</b>	<b>1.3397</b>	<b>13.2113</b>	<b>10.6271</b>	<b>0.0199</b>	<b>0.1241</b>	<b>0.6194</b>	<b>0.7435</b>	<b>0.0134</b>	<b>0.5865</b>	<b>0.5999</b>	<b>0.0000</b>	<b>1,908.0144</b>	<b>1,908.0144</b>	<b>0.4478</b>		<b>1,919.2087</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**3.3 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0474	0.0270	0.3697	1.0700e-003	0.1118	6.6000e-004	0.1124	0.0296	6.1000e-004	0.0303		106.4751	106.4751	2.5400e-003		106.5386
<b>Total</b>	<b>0.0521</b>	<b>0.2121</b>	<b>0.4027</b>	<b>1.5900e-003</b>	<b>0.1246</b>	<b>1.0100e-003</b>	<b>0.1256</b>	<b>0.0333</b>	<b>9.5000e-004</b>	<b>0.0343</b>		<b>161.1253</b>	<b>161.1253</b>	<b>6.4500e-003</b>		<b>161.2865</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7692	12.6636	14.5295	0.0220		0.6973	0.6973		0.6727	0.6727		1,995.2987	1,995.2987	0.3554		2,004.1826
<b>Total</b>	<b>1.7692</b>	<b>12.6636</b>	<b>14.5295</b>	<b>0.0220</b>		<b>0.6973</b>	<b>0.6973</b>		<b>0.6727</b>	<b>0.6727</b>		<b>1,995.2987</b>	<b>1,995.2987</b>	<b>0.3554</b>		<b>2,004.1826</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0327	1.2956	0.2312	3.6300e-003	0.0897	2.4600e-003	0.0921	0.0258	2.3600e-003	0.0282		382.5514	382.5514	0.0274		383.2356
Worker	0.1707	0.0972	1.3310	3.8500e-003	0.4024	2.3700e-003	0.4048	0.1067	2.1800e-003	0.1089		383.3103	383.3103	9.1400e-003		383.5388
<b>Total</b>	<b>0.2034</b>	<b>1.3928</b>	<b>1.5621</b>	<b>7.4800e-003</b>	<b>0.4921</b>	<b>4.8300e-003</b>	<b>0.4969</b>	<b>0.1325</b>	<b>4.5400e-003</b>	<b>0.1371</b>		<b>765.8618</b>	<b>765.8618</b>	<b>0.0365</b>		<b>766.7745</b>

**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	1.7692	12.6636	14.5295	0.0220		0.6973	0.6973		0.6727	0.6727	0.0000	1,995.2987	1,995.2987	0.3554		2,004.1826
<b>Total</b>	<b>1.7692</b>	<b>12.6636</b>	<b>14.5295</b>	<b>0.0220</b>		<b>0.6973</b>	<b>0.6973</b>		<b>0.6727</b>	<b>0.6727</b>	<b>0.0000</b>	<b>1,995.2987</b>	<b>1,995.2987</b>	<b>0.3554</b>		<b>2,004.1826</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**3.4 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0327	1.2956	0.2312	3.6300e-003	0.0897	2.4600e-003	0.0921	0.0258	2.3600e-003	0.0282		382.5514	382.5514	0.0274		383.2356
Worker	0.1707	0.0972	1.3310	3.8500e-003	0.4024	2.3700e-003	0.4048	0.1067	2.1800e-003	0.1089		383.3103	383.3103	9.1400e-003		383.5388
<b>Total</b>	<b>0.2034</b>	<b>1.3928</b>	<b>1.5621</b>	<b>7.4800e-003</b>	<b>0.4921</b>	<b>4.8300e-003</b>	<b>0.4969</b>	<b>0.1325</b>	<b>4.5400e-003</b>	<b>0.1371</b>		<b>765.8618</b>	<b>765.8618</b>	<b>0.0365</b>		<b>766.7745</b>

**3.5 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8738	8.7235	9.8952	0.0152		0.4650	0.4650		0.4289	0.4289		1,455.0218	1,455.0218	0.4595		1,466.5091
Paving	0.2044					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0782</b>	<b>8.7235</b>	<b>9.8952</b>	<b>0.0152</b>		<b>0.4650</b>	<b>0.4650</b>		<b>0.4289</b>	<b>0.4289</b>		<b>1,455.0218</b>	<b>1,455.0218</b>	<b>0.4595</b>		<b>1,466.5091</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**3.5 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0616	0.0351	0.4806	1.3900e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		138.4176	138.4176	3.3000e-003		138.5001
<b>Total</b>	<b>0.0663</b>	<b>0.2202</b>	<b>0.5137</b>	<b>1.9100e-003</b>	<b>0.1581</b>	<b>1.2100e-003</b>	<b>0.1593</b>	<b>0.0422</b>	<b>1.1300e-003</b>	<b>0.0434</b>		<b>193.0678</b>	<b>193.0678</b>	<b>7.2100e-003</b>		<b>193.2481</b>

**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	0.8738	8.7235	9.8952	0.0152		0.4650	0.4650		0.4289	0.4289	0.0000	1,455.0218	1,455.0218	0.4595		1,466.5091
Paving	0.2044					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0782</b>	<b>8.7235</b>	<b>9.8952</b>	<b>0.0152</b>		<b>0.4650</b>	<b>0.4650</b>		<b>0.4289</b>	<b>0.4289</b>	<b>0.0000</b>	<b>1,455.0218</b>	<b>1,455.0218</b>	<b>0.4595</b>		<b>1,466.5091</b>

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**3.5 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	4.6700e-003	0.1851	0.0330	5.2000e-004	0.0128	3.5000e-004	0.0132	3.6900e-003	3.4000e-004	4.0200e-003		54.6502	54.6502	3.9100e-003		54.7480
Worker	0.0616	0.0351	0.4806	1.3900e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		138.4176	138.4176	3.3000e-003		138.5001
<b>Total</b>	<b>0.0663</b>	<b>0.2202</b>	<b>0.5137</b>	<b>1.9100e-003</b>	<b>0.1581</b>	<b>1.2100e-003</b>	<b>0.1593</b>	<b>0.0422</b>	<b>1.1300e-003</b>	<b>0.0434</b>		<b>193.0678</b>	<b>193.0678</b>	<b>7.2100e-003</b>		<b>193.2481</b>

**3.6 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.2695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255		375.2641	375.2641	0.0258		375.9079
<b>Total</b>	<b>9.5614</b>	<b>2.0358</b>	<b>2.4234</b>	<b>3.9600e-003</b>		<b>0.1255</b>	<b>0.1255</b>		<b>0.1255</b>	<b>0.1255</b>		<b>375.2641</b>	<b>375.2641</b>	<b>0.0258</b>		<b>375.9079</b>

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**3.6 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0332	0.0189	0.2588	7.5000e-004	0.0782	4.6000e-004	0.0787	0.0208	4.2000e-004	0.0212		74.5326	74.5326	1.7800e-003		74.5770
<b>Total</b>	<b>0.0332</b>	<b>0.0189</b>	<b>0.2588</b>	<b>7.5000e-004</b>	<b>0.0782</b>	<b>4.6000e-004</b>	<b>0.0787</b>	<b>0.0208</b>	<b>4.2000e-004</b>	<b>0.0212</b>		<b>74.5326</b>	<b>74.5326</b>	<b>1.7800e-003</b>		<b>74.5770</b>

**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	9.2695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255	0.0000	375.2641	375.2641	0.0258		375.9079
<b>Total</b>	<b>9.5614</b>	<b>2.0358</b>	<b>2.4234</b>	<b>3.9600e-003</b>		<b>0.1255</b>	<b>0.1255</b>		<b>0.1255</b>	<b>0.1255</b>	<b>0.0000</b>	<b>375.2641</b>	<b>375.2641</b>	<b>0.0258</b>		<b>375.9079</b>

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**3.6 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0332	0.0189	0.2588	7.5000e-004	0.0782	4.6000e-004	0.0787	0.0208	4.2000e-004	0.0212		74.5326	74.5326	1.7800e-003		74.5770
<b>Total</b>	<b>0.0332</b>	<b>0.0189</b>	<b>0.2588</b>	<b>7.5000e-004</b>	<b>0.0782</b>	<b>4.6000e-004</b>	<b>0.0787</b>	<b>0.0208</b>	<b>4.2000e-004</b>	<b>0.0212</b>		<b>74.5326</b>	<b>74.5326</b>	<b>1.7800e-003</b>		<b>74.5770</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



Motte Country Plaza - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.1085	47.0356	45.8075	0.1862	11.0074	0.1171	11.1244	2.9450	0.1095	3.0545		19,107.1930	19,107.1930	1.4722		19,143.9986
Unmitigated	7.1085	47.0356	45.8075	0.1862	11.0074	0.1171	11.1244	2.9450	0.1095	3.0545		19,107.1930	19,107.1930	1.4722		19,143.9986

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market With Gas Pumps	3,688.00	3,700.00	3700.00	3,562,423	3,562,423
Fast Food Restaurant with Drive Thru	846.56	1,107.11	849.55	1,197,351	1,197,351
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Retail	94.97	94.97	94.97	91,647	91,647
<b>Total</b>	<b>4,629.53</b>	<b>4,902.08</b>	<b>4,644.52</b>	<b>4,851,421</b>	<b>4,851,421</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market With Gas	16.60	8.40	6.90	0.80	80.20	19.00	14	73	13
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	63	8
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Retail	16.60	8.40	6.90	0.80	80.20	19.00	14	73	13

Motte Country Plaza - Riverside-South Coast County, Summer

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market With Gas Pumps	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Fast Food Restaurant with Drive Thru	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Non-Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
User Defined Retail	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	0.0133	0.1206	0.1013	7.2000e-004		9.1600e-003	9.1600e-003		9.1600e-003	9.1600e-003		144.6933	144.6933	2.7700e-003	2.6500e-003	145.5531
NaturalGas Unmitigated	0.0146	0.1324	0.1112	7.9000e-004		0.0101	0.0101		0.0101	0.0101		158.8281	158.8281	3.0400e-003	2.9100e-003	159.7719

Motte Country Plaza - Riverside-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market With Gas Pumps	29.2858	3.2000e-004	2.8700e-003	2.4100e-003	2.0000e-005		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004		3.4454	3.4454	7.0000e-005	6.0000e-005	3.4659
Fast Food Restaurant with Drive Thru	1320.75	0.0142	0.1295	0.1088	7.8000e-004		9.8400e-003	9.8400e-003		9.8400e-003	9.8400e-003		155.3827	155.3827	2.9800e-003	2.8500e-003	156.3060
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Retail	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
<b>Total</b>		<b>0.0146</b>	<b>0.1324</b>	<b>0.1112</b>	<b>8.0000e-004</b>		<b>0.0101</b>	<b>0.0101</b>		<b>0.0101</b>	<b>0.0101</b>		<b>158.8281</b>	<b>158.8281</b>	<b>3.0500e-003</b>	<b>2.9100e-003</b>	<b>159.7719</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market With Gas Pumps	0.0216873	2.3000e-004	2.1300e-003	1.7900e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004		2.5515	2.5515	5.0000e-005	5.0000e-005	2.5666
Fast Food Restaurant with Drive Thru	1.20821	0.0130	0.1185	0.0995	7.1000e-004		9.0000e-003	9.0000e-003		9.0000e-003	9.0000e-003		142.1418	142.1418	2.7200e-003	2.6100e-003	142.9865
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Retail	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
<b>Total</b>		<b>0.0133</b>	<b>0.1206</b>	<b>0.1013</b>	<b>7.2000e-004</b>		<b>9.1600e-003</b>	<b>9.1600e-003</b>		<b>9.1600e-003</b>	<b>9.1600e-003</b>		<b>144.6933</b>	<b>144.6933</b>	<b>2.7700e-003</b>	<b>2.6600e-003</b>	<b>145.5531</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Motte Country Plaza - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2045	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.5100e-003	4.5100e-003	1.0000e-005		4.8100e-003
Unmitigated	0.2045	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.5100e-003	4.5100e-003	1.0000e-005		4.8100e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0254					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1789					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.5100e-003	4.5100e-003	1.0000e-005		4.8100e-003
<b>Total</b>	<b>0.2045</b>	<b>2.0000e-005</b>	<b>2.1100e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.5100e-003</b>	<b>4.5100e-003</b>	<b>1.0000e-005</b>		<b>4.8100e-003</b>

Motte Country Plaza - Riverside-South Coast County, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0254					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1789					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.5100e-003	4.5100e-003	1.0000e-005		4.8100e-003
<b>Total</b>	<b>0.2045</b>	<b>2.0000e-005</b>	<b>2.1100e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.5100e-003</b>	<b>4.5100e-003</b>	<b>1.0000e-005</b>		<b>4.8100e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Motte Country Plaza - Riverside-South Coast County, Summer

**10.0 Stationary Equipment**

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**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**

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**Motte Country Plaza**  
**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Convenience Market With Gas Pumps	16.00	Pump	0.05	4,815.00	0
Fast Food Restaurant with Drive Thru	1.76	1000sqft	0.04	1,763.00	0
User Defined Retail	1.03	User Defined Unit	0.02	1,030.00	0
Parking Lot	0.78	Acre	0.78	33,976.80	0
Other Non-Asphalt Surfaces	1.05	Acre	1.05	45,738.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	531.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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



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Project Characteristics - carbon intensity updated with current SCE data

Land Use - site disturbs 1.43 ac + 0.51 offsite utility

Construction Phase - per applicant

Off-road Equipment - per applicant

Off-road Equipment - per applicant. 8-hr day

Off-road Equipment - per applicant; 8-hr day

Off-road Equipment - 8-hr day

Off-road Equipment - 8-hr day

Trips and VMT - 2 water truck trips added per day for site preparation, grading, and paving

Vehicle Trips - per TIA; weekend rates per traffic engineers

Energy Use - per applicant

Water And Wastewater - per applicant

Solid Waste - per CalEEMod rate for gas/service station (3.82 ton/site/yr)

Construction Off-road Equipment Mitigation - water site 3x daily per Rule 403

Energy Mitigation - 30% reduction per 2019 Title 24

Water Mitigation - per Calgreen code

Waste Mitigation - per Calrecycle

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	200.00	176.00
tblConstructionPhase	NumDays	4.00	5.00
tblConstructionPhase	PhaseEndDate	1/10/2022	11/10/2021
tblConstructionPhase	PhaseEndDate	12/13/2021	11/10/2021
tblConstructionPhase	PhaseEndDate	3/8/2021	3/9/2021
tblConstructionPhase	PhaseEndDate	12/27/2021	11/10/2021
tblConstructionPhase	PhaseStartDate	12/28/2021	10/28/2021
tblConstructionPhase	PhaseStartDate	3/9/2021	3/10/2021

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tblConstructionPhase	PhaseStartDate	12/14/2021	10/28/2021
tblEnergyUse	NT24E	0.00	14.76
tblGrading	AcresOfGrading	2.50	1.50
tblLandUse	LandUseSquareFeet	2,258.80	4,815.00
tblLandUse	LandUseSquareFeet	1,760.00	1,763.00
tblLandUse	LandUseSquareFeet	0.00	1,030.00
tblLandUse	LotAcreage	0.00	0.02
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblSolidWaste	SolidWasteGenerationRate	0.00	3.93
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	CC_TTP	0.00	80.20
tblVehicleTrips	CNW_TTP	0.00	19.00
tblVehicleTrips	CW_TTP	0.00	0.80
tblVehicleTrips	DV_TP	21.00	73.00
tblVehicleTrips	DV_TP	21.00	63.00
tblVehicleTrips	DV_TP	0.00	73.00
tblVehicleTrips	PB_TP	65.00	13.00
tblVehicleTrips	PB_TP	50.00	8.00
tblVehicleTrips	PB_TP	0.00	13.00
tblVehicleTrips	PR_TP	0.00	14.00
tblVehicleTrips	ST_TR	204.47	231.25
tblVehicleTrips	ST_TR	722.03	629.04
tblVehicleTrips	ST_TR	0.00	92.20
tblVehicleTrips	SU_TR	166.88	231.25
tblVehicleTrips	SU_TR	542.72	482.70
tblVehicleTrips	SU_TR	0.00	92.20
tblVehicleTrips	WD_TR	542.60	230.50
tblVehicleTrips	WD_TR	496.12	481.00
tblVehicleTrips	WD_TR	0.00	92.20
tblWater	IndoorWaterUseRate	0.00	269,444.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2021	5-31-2021	0.5215	0.5215
2	6-1-2021	8-31-2021	0.5267	0.5267
3	9-1-2021	9-30-2021	0.1717	0.1717
		Highest	0.5267	0.5267

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0373	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.1000e-004	5.1000e-004	0.0000	0.0000	5.5000e-004
Energy	2.6600e-003	0.0242	0.0203	1.4000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	67.6649	67.6649	2.7600e-003	9.5000e-004	68.0168
Mobile	1.0092	8.1243	7.5391	0.0302	1.8522	0.0203	1.8725	0.4962	0.0190	0.5152	0.0000	2,816.3026	2,816.3026	0.2388	0.0000	2,822.2730
Waste						0.0000	0.0000		0.0000	0.0000	4.9124	0.0000	4.9124	0.2903	0.0000	12.1702
Water						0.0000	0.0000		0.0000	0.0000	0.3081	3.4137	3.7217	0.0318	7.9000e-004	4.7515
<b>Total</b>	<b>1.0492</b>	<b>8.1485</b>	<b>7.5597</b>	<b>0.0304</b>	<b>1.8522</b>	<b>0.0221</b>	<b>1.8744</b>	<b>0.4962</b>	<b>0.0208</b>	<b>0.5171</b>	<b>5.2204</b>	<b>2,887.3817</b>	<b>2,892.6021</b>	<b>0.5637</b>	<b>1.7400e-003</b>	<b>2,907.2120</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0373	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.1000e-004	5.1000e-004	0.0000	0.0000	5.5000e-004
Energy	2.4200e-003	0.0220	0.0185	1.3000e-004		1.6700e-003	1.6700e-003		1.6700e-003	1.6700e-003	0.0000	62.1515	62.1515	2.5400e-003	8.7000e-004	62.4745
Mobile	1.0092	8.1243	7.5391	0.0302	1.8522	0.0203	1.8725	0.4962	0.0190	0.5152	0.0000	2,816.3026	2,816.3026	0.2388	0.0000	2,822.2730
Waste						0.0000	0.0000		0.0000	0.0000	1.8667	0.0000	1.8667	0.1103	0.0000	4.6247
Water						0.0000	0.0000		0.0000	0.0000	0.2464	2.8041	3.0506	0.0255	6.3000e-004	3.8747
<b>Total</b>	<b>1.0489</b>	<b>8.1463</b>	<b>7.5579</b>	<b>0.0304</b>	<b>1.8522</b>	<b>0.0220</b>	<b>1.8742</b>	<b>0.4962</b>	<b>0.0207</b>	<b>0.5169</b>	<b>2.1131</b>	<b>2,881.2588</b>	<b>2,883.3719</b>	<b>0.3771</b>	<b>1.5000e-003</b>	<b>2,893.2475</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.02</b>	<b>0.03</b>	<b>0.02</b>	<b>0.03</b>	<b>0.00</b>	<b>0.77</b>	<b>0.01</b>	<b>0.00</b>	<b>0.82</b>	<b>0.03</b>	<b>59.52</b>	<b>0.21</b>	<b>0.32</b>	<b>33.10</b>	<b>13.79</b>	<b>0.48</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2021	3/2/2021	5	2	
2	Grading	Grading	3/3/2021	3/9/2021	5	5	
3	Building Construction	Building Construction	3/10/2021	11/10/2021	5	176	
4	Paving	Paving	10/28/2021	11/10/2021	5	10	
5	Architectural Coating	Architectural Coating	10/28/2021	11/10/2021	5	10	

**Acres of Grading (Site Preparation Phase): 1**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 1.83**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 11,412; Non-Residential Outdoor: 3,804; Striped Parking Area: 4,783 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Motte Country Plaza - Riverside-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Site Preparation	Excavators	1	8.00	158	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	0	6.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Grading	Crushing/Proc. Equipment	1	8.00	85	0.78
Grading	Rubber Tired Dozers	0	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT



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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	36.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0600e-003	0.0119	9.5600e-003	2.0000e-005		5.2000e-004	5.2000e-004		4.7000e-004	4.7000e-004	0.0000	1.5818	1.5818	5.1000e-004	0.0000	1.5946
<b>Total</b>	<b>1.0600e-003</b>	<b>0.0119</b>	<b>9.5600e-003</b>	<b>2.0000e-005</b>	<b>5.3000e-004</b>	<b>5.2000e-004</b>	<b>1.0500e-003</b>	<b>6.0000e-005</b>	<b>4.7000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.5818</b>	<b>1.5818</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.5946</b>

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**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	1.9000e-004	4.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0488	0.0488	0.0000	0.0000	0.0489
Worker	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0889	0.0889	0.0000	0.0000	0.0889
<b>Total</b>	<b>4.0000e-005</b>	<b>2.2000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1377</b>	<b>0.1377</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1378</b>

**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					2.1000e-004	0.0000	2.1000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0600e-003	0.0119	9.5600e-003	2.0000e-005		5.2000e-004	5.2000e-004		4.7000e-004	4.7000e-004	0.0000	1.5818	1.5818	5.1000e-004	0.0000	1.5946
<b>Total</b>	<b>1.0600e-003</b>	<b>0.0119</b>	<b>9.5600e-003</b>	<b>2.0000e-005</b>	<b>2.1000e-004</b>	<b>5.2000e-004</b>	<b>7.3000e-004</b>	<b>2.0000e-005</b>	<b>4.7000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5818</b>	<b>1.5818</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.5946</b>

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**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	1.9000e-004	4.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0488	0.0488	0.0000	0.0000	0.0489
Worker	4.0000e-005	3.0000e-005	3.1000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0889	0.0889	0.0000	0.0000	0.0889
<b>Total</b>	<b>4.0000e-005</b>	<b>2.2000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1377</b>	<b>0.1377</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1378</b>

**3.3 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3500e-003	0.0330	0.0266	5.0000e-005		1.5500e-003	1.5500e-003		1.4700e-003	1.4700e-003	0.0000	4.3273	4.3273	1.0200e-003	0.0000	4.3527
<b>Total</b>	<b>3.3500e-003</b>	<b>0.0330</b>	<b>0.0266</b>	<b>5.0000e-005</b>	<b>8.0000e-004</b>	<b>1.5500e-003</b>	<b>2.3500e-003</b>	<b>9.0000e-005</b>	<b>1.4700e-003</b>	<b>1.5600e-003</b>	<b>0.0000</b>	<b>4.3273</b>	<b>4.3273</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>4.3527</b>

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**3.3 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.7000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1220	0.1220	1.0000e-005	0.0000	0.1222
Worker	1.1000e-004	7.0000e-005	7.9000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2222	0.2222	1.0000e-005	0.0000	0.2223
<b>Total</b>	<b>1.2000e-004</b>	<b>5.4000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.3442</b>	<b>0.3442</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3446</b>

**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					3.1000e-004	0.0000	3.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3500e-003	0.0330	0.0266	5.0000e-005		1.5500e-003	1.5500e-003		1.4700e-003	1.4700e-003	0.0000	4.3273	4.3273	1.0200e-003	0.0000	4.3527
<b>Total</b>	<b>3.3500e-003</b>	<b>0.0330</b>	<b>0.0266</b>	<b>5.0000e-005</b>	<b>3.1000e-004</b>	<b>1.5500e-003</b>	<b>1.8600e-003</b>	<b>3.0000e-005</b>	<b>1.4700e-003</b>	<b>1.5000e-003</b>	<b>0.0000</b>	<b>4.3273</b>	<b>4.3273</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>4.3527</b>

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**3.3 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.7000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1220	0.1220	1.0000e-005	0.0000	0.1222
Worker	1.1000e-004	7.0000e-005	7.9000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2222	0.2222	1.0000e-005	0.0000	0.2223
<b>Total</b>	<b>1.2000e-004</b>	<b>5.4000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.3442</b>	<b>0.3442</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3446</b>

**3.4 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1557	1.1144	1.2786	1.9300e-003		0.0614	0.0614		0.0592	0.0592	0.0000	159.2892	159.2892	0.0284	0.0000	159.9984
<b>Total</b>	<b>0.1557</b>	<b>1.1144</b>	<b>1.2786</b>	<b>1.9300e-003</b>		<b>0.0614</b>	<b>0.0614</b>		<b>0.0592</b>	<b>0.0592</b>	<b>0.0000</b>	<b>159.2892</b>	<b>159.2892</b>	<b>0.0284</b>	<b>0.0000</b>	<b>159.9984</b>

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**3.4 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9400e-003	0.1149	0.0221	3.1000e-004	7.7800e-003	2.2000e-004	8.0000e-003	2.2400e-003	2.1000e-004	2.4500e-003	0.0000	30.0575	30.0575	2.2900e-003	0.0000	30.1148
Worker	0.0136	9.1500e-003	0.0997	3.1000e-004	0.0348	2.1000e-004	0.0350	9.2500e-003	1.9000e-004	9.4400e-003	0.0000	28.1587	28.1587	6.6000e-004	0.0000	28.1751
<b>Total</b>	<b>0.0165</b>	<b>0.1240</b>	<b>0.1218</b>	<b>6.2000e-004</b>	<b>0.0426</b>	<b>4.3000e-004</b>	<b>0.0430</b>	<b>0.0115</b>	<b>4.0000e-004</b>	<b>0.0119</b>	<b>0.0000</b>	<b>58.2162</b>	<b>58.2162</b>	<b>2.9500e-003</b>	<b>0.0000</b>	<b>58.2899</b>

**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	0.1557	1.1144	1.2786	1.9300e-003		0.0614	0.0614		0.0592	0.0592	0.0000	159.2890	159.2890	0.0284	0.0000	159.9982
<b>Total</b>	<b>0.1557</b>	<b>1.1144</b>	<b>1.2786</b>	<b>1.9300e-003</b>		<b>0.0614</b>	<b>0.0614</b>		<b>0.0592</b>	<b>0.0592</b>	<b>0.0000</b>	<b>159.2890</b>	<b>159.2890</b>	<b>0.0284</b>	<b>0.0000</b>	<b>159.9982</b>

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**3.4 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9400e-003	0.1149	0.0221	3.1000e-004	7.7800e-003	2.2000e-004	8.0000e-003	2.2400e-003	2.1000e-004	2.4500e-003	0.0000	30.0575	30.0575	2.2900e-003	0.0000	30.1148
Worker	0.0136	9.1500e-003	0.0997	3.1000e-004	0.0348	2.1000e-004	0.0350	9.2500e-003	1.9000e-004	9.4400e-003	0.0000	28.1587	28.1587	6.6000e-004	0.0000	28.1751
<b>Total</b>	<b>0.0165</b>	<b>0.1240</b>	<b>0.1218</b>	<b>6.2000e-004</b>	<b>0.0426</b>	<b>4.3000e-004</b>	<b>0.0430</b>	<b>0.0115</b>	<b>4.0000e-004</b>	<b>0.0119</b>	<b>0.0000</b>	<b>58.2162</b>	<b>58.2162</b>	<b>2.9500e-003</b>	<b>0.0000</b>	<b>58.2899</b>

**3.5 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.3700e-003	0.0436	0.0495	8.0000e-005		2.3200e-003	2.3200e-003		2.1400e-003	2.1400e-003	0.0000	6.5999	6.5999	2.0800e-003	0.0000	6.6520
Paving	1.0200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.3900e-003</b>	<b>0.0436</b>	<b>0.0495</b>	<b>8.0000e-005</b>		<b>2.3200e-003</b>	<b>2.3200e-003</b>		<b>2.1400e-003</b>	<b>2.1400e-003</b>	<b>0.0000</b>	<b>6.5999</b>	<b>6.5999</b>	<b>2.0800e-003</b>	<b>0.0000</b>	<b>6.6520</b>

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**3.5 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	9.3000e-004	1.8000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2440	0.2440	2.0000e-005	0.0000	0.2444
Worker	2.8000e-004	1.9000e-004	2.0500e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5778	0.5778	1.0000e-005	0.0000	0.5781
<b>Total</b>	<b>3.0000e-004</b>	<b>1.1200e-003</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>7.8000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.8217</b>	<b>0.8217</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.8225</b>

**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	4.3700e-003	0.0436	0.0495	8.0000e-005		2.3200e-003	2.3200e-003		2.1400e-003	2.1400e-003	0.0000	6.5999	6.5999	2.0800e-003	0.0000	6.6520
Paving	1.0200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.3900e-003</b>	<b>0.0436</b>	<b>0.0495</b>	<b>8.0000e-005</b>		<b>2.3200e-003</b>	<b>2.3200e-003</b>		<b>2.1400e-003</b>	<b>2.1400e-003</b>	<b>0.0000</b>	<b>6.5999</b>	<b>6.5999</b>	<b>2.0800e-003</b>	<b>0.0000</b>	<b>6.6520</b>



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**3.5 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	9.3000e-004	1.8000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2440	0.2440	2.0000e-005	0.0000	0.2444
Worker	2.8000e-004	1.9000e-004	2.0500e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5778	0.5778	1.0000e-005	0.0000	0.5781
<b>Total</b>	<b>3.0000e-004</b>	<b>1.1200e-003</b>	<b>2.2300e-003</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>7.8000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.8217</b>	<b>0.8217</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.8225</b>

**3.6 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0464					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4600e-003	0.0102	0.0121	2.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	1.7022	1.7022	1.2000e-004	0.0000	1.7051
<b>Total</b>	<b>0.0478</b>	<b>0.0102</b>	<b>0.0121</b>	<b>2.0000e-005</b>		<b>6.3000e-004</b>	<b>6.3000e-004</b>		<b>6.3000e-004</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>1.7022</b>	<b>1.7022</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.7051</b>

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**3.6 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.1000e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3111	0.3111	1.0000e-005	0.0000	0.3113
<b>Total</b>	<b>1.5000e-004</b>	<b>1.0000e-004</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3111</b>	<b>0.3111</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3113</b>

**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	0.0464					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4600e-003	0.0102	0.0121	2.0000e-005		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	1.7022	1.7022	1.2000e-004	0.0000	1.7051
<b>Total</b>	<b>0.0478</b>	<b>0.0102</b>	<b>0.0121</b>	<b>2.0000e-005</b>		<b>6.3000e-004</b>	<b>6.3000e-004</b>		<b>6.3000e-004</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>1.7022</b>	<b>1.7022</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.7051</b>

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**3.6 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.1000e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3111	0.3111	1.0000e-005	0.0000	0.3113
<b>Total</b>	<b>1.5000e-004</b>	<b>1.0000e-004</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3111</b>	<b>0.3111</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3113</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0092	8.1243	7.5391	0.0302	1.8522	0.0203	1.8725	0.4962	0.0190	0.5152	0.0000	2,816.3026	2,816.3026	0.2388	0.0000	2,822.2730
Unmitigated	1.0092	8.1243	7.5391	0.0302	1.8522	0.0203	1.8725	0.4962	0.0190	0.5152	0.0000	2,816.3026	2,816.3026	0.2388	0.0000	2,822.2730

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market With Gas Pumps	3,688.00	3,700.00	3700.00	3,562,423	3,562,423
Fast Food Restaurant with Drive Thru	846.56	1,107.11	849.55	1,197,351	1,197,351
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Retail	94.97	94.97	94.97	91,647	91,647
<b>Total</b>	<b>4,629.53</b>	<b>4,902.08</b>	<b>4,644.52</b>	<b>4,851,421</b>	<b>4,851,421</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market With Gas	16.60	8.40	6.90	0.80	80.20	19.00	14	73	13
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	63	8
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Retail	16.60	8.40	6.90	0.80	80.20	19.00	14	73	13

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**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market With Gas Pumps	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Fast Food Restaurant with Drive Thru	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Other Non-Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
User Defined Retail	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	38.1959	38.1959	2.0800e-003	4.3000e-004	38.3766
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	41.3691	41.3691	2.2600e-003	4.7000e-004	41.5647
NaturalGas Mitigated	2.4200e-003	0.0220	0.0185	1.3000e-004		1.6700e-003	1.6700e-003		1.6700e-003	1.6700e-003	0.0000	23.9556	23.9556	4.6000e-004	4.4000e-004	24.0980
NaturalGas Unmitigated	2.6600e-003	0.0242	0.0203	1.4000e-004		1.8400e-003	1.8400e-003		1.8400e-003	1.8400e-003	0.0000	26.2958	26.2958	5.0000e-004	4.8000e-004	26.4520

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market With Gas Pumps	10689.3	6.0000e-005	5.2000e-004	4.4000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5704	0.5704	1.0000e-005	1.0000e-005	0.5738
Fast Food Restaurant with Drive Thru	482075	2.6000e-003	0.0236	0.0199	1.4000e-004		1.8000e-003	1.8000e-003		1.8000e-003	1.8000e-003	0.0000	25.7253	25.7253	4.9000e-004	4.7000e-004	25.8782
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Retail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.6600e-003</b>	<b>0.0242</b>	<b>0.0203</b>	<b>1.4000e-004</b>		<b>1.8400e-003</b>	<b>1.8400e-003</b>		<b>1.8400e-003</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>26.2958</b>	<b>26.2958</b>	<b>5.0000e-004</b>	<b>4.8000e-004</b>	<b>26.4520</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market With Gas Pumps	7915.86	4.0000e-005	3.9000e-004	3.3000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4224	0.4224	1.0000e-005	1.0000e-005	0.4249
Fast Food Restaurant with Drive Thru	440995	2.3800e-003	0.0216	0.0182	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.5332	23.5332	4.5000e-004	4.3000e-004	23.6730
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Retail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.4200e-003</b>	<b>0.0220</b>	<b>0.0185</b>	<b>1.3000e-004</b>		<b>1.6700e-003</b>	<b>1.6700e-003</b>		<b>1.6700e-003</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>23.9556</b>	<b>23.9556</b>	<b>4.6000e-004</b>	<b>4.4000e-004</b>	<b>24.0980</b>

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market With Gas Pumps	60813.4	14.6595	8.0000e-004	1.7000e-004	14.7288
Fast Food Restaurant with Drive Thru	83707.2	20.1782	1.1000e-003	2.3000e-004	20.2736
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	11891.9	2.8666	1.6000e-004	3.0000e-005	2.8802
User Defined Retail	15202.8	3.6647	2.0000e-004	4.0000e-005	3.6821
<b>Total</b>		<b>41.3691</b>	<b>2.2600e-003</b>	<b>4.7000e-004</b>	<b>41.5647</b>



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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market With Gas Pumps	54197.6	13.0647	7.1000e-004	1.5000e-004	13.1265
Fast Food Restaurant with Drive Thru	77159.5	18.5998	1.0100e-003	2.1000e-004	18.6878
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	11891.9	2.8666	1.6000e-004	3.0000e-005	2.8802
User Defined Retail	15202.8	3.6647	2.0000e-004	4.0000e-005	3.6821
<b>Total</b>		<b>38.1959</b>	<b>2.0800e-003</b>	<b>4.3000e-004</b>	<b>38.3766</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0373	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.1000e-004	5.1000e-004	0.0000	0.0000	5.5000e-004
Unmitigated	0.0373	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.1000e-004	5.1000e-004	0.0000	0.0000	5.5000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.6300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0326					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.1000e-004	5.1000e-004	0.0000	0.0000	5.5000e-004
<b>Total</b>	<b>0.0373</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.5000e-004</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.6300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0326					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.1000e-004	5.1000e-004	0.0000	0.0000	5.5000e-004
<b>Total</b>	<b>0.0373</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.5000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.0506	0.0255	6.3000e-004	3.8747
Unmitigated	3.7217	0.0318	7.9000e-004	4.7515

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market With Gas Pumps	0.167315 / 0.102548	0.8529	5.5000e-003	1.4000e-004	1.0313
Fast Food Restaurant with Drive Thru	0.534219 / 0.0340991	1.9376	0.0175	4.3000e-004	2.5037
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Retail	0.269444 / 0	0.9312	8.8300e-003	2.2000e-004	1.2165
<b>Total</b>		<b>3.7217</b>	<b>0.0318</b>	<b>7.9000e-004</b>	<b>4.7515</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market With Gas Pumps	0.133852 / 0.102548	0.7372	4.4000e-003	1.1000e-004	0.8803
Fast Food Restaurant with Drive Thru	0.427375 / 0.0340991	1.5684	0.0140	3.4000e-004	2.0213
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Retail	0.215555 / 0	0.7450	7.0600e-003	1.7000e-004	0.9732
<b>Total</b>		<b>3.0506</b>	<b>0.0255</b>	<b>6.2000e-004</b>	<b>3.8747</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.8667	0.1103	0.0000	4.6247
Unmitigated	4.9124	0.2903	0.0000	12.1702

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	20.27	4.1146	0.2432	0.0000	10.1938
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Retail	3.93	0.7978	0.0472	0.0000	1.9764
<b>Total</b>		<b>4.9124</b>	<b>0.2903</b>	<b>0.0000</b>	<b>12.1702</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	7.7026	1.5636	0.0924	0.0000	3.8737
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Retail	1.4934	0.3032	0.0179	0.0000	0.7510
<b>Total</b>		<b>1.8667</b>	<b>0.1103</b>	<b>0.0000</b>	<b>4.6247</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

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Equipment Type	Number
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**11.0 Vegetation**

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