

Ldn Consulting, Inc.

42428 Chisolm Trail, Murrieta CA 92562

phone 760-473-1253

May 18, 2022

NNN Retail Development
David Church
15882 Wakefield Lane
San Diego, CA 92127

RE: Borrego Springs Dollar General Store Construction Air Quality Screening Assessment – County of San Diego

The purpose of this air quality screening letter is to identify potential air quality impacts, if any, which may be created during the construction of a proposed Dollar General store located 800 Palm Canyon Road in the unincorporated town of Borrego Springs in the County of San Diego. A Project Vicinity Map is shown in Figure 1.

The Project seeks to construct a 12,480 Square Foot (SF) general store with roughly 34,200 SF of asphalt for driveways and parking. The project would be expected to import 209 Cubic Yards (CY) of soil for the Project. A Project Development Map is shown in Figure 2.

Construction emissions would be required to conform to all federal, state and local regional air quality laws. The air quality emissions from this project were analyzed using CalEEMod 2020.4.0 which was just updated by South Coast Air Quality Management District (SCAQMD) in 2021. The modeled emissions are compared to County adopted Screening Level Thresholds¹ (SLTs) for use in determining air quality impacts (County of San Diego, 2007). These SLTs can be used to demonstrate that a project's total emissions would not result in a significant air quality impact.

¹ County SLTs are tied to achieving or maintaining attainment designations with the NAAQS and CAAQS. The federal and State ambient air quality standards, in turn, are scientifically substantiated, numerical concentrations of criteria air pollutants considered to be protective of human health.

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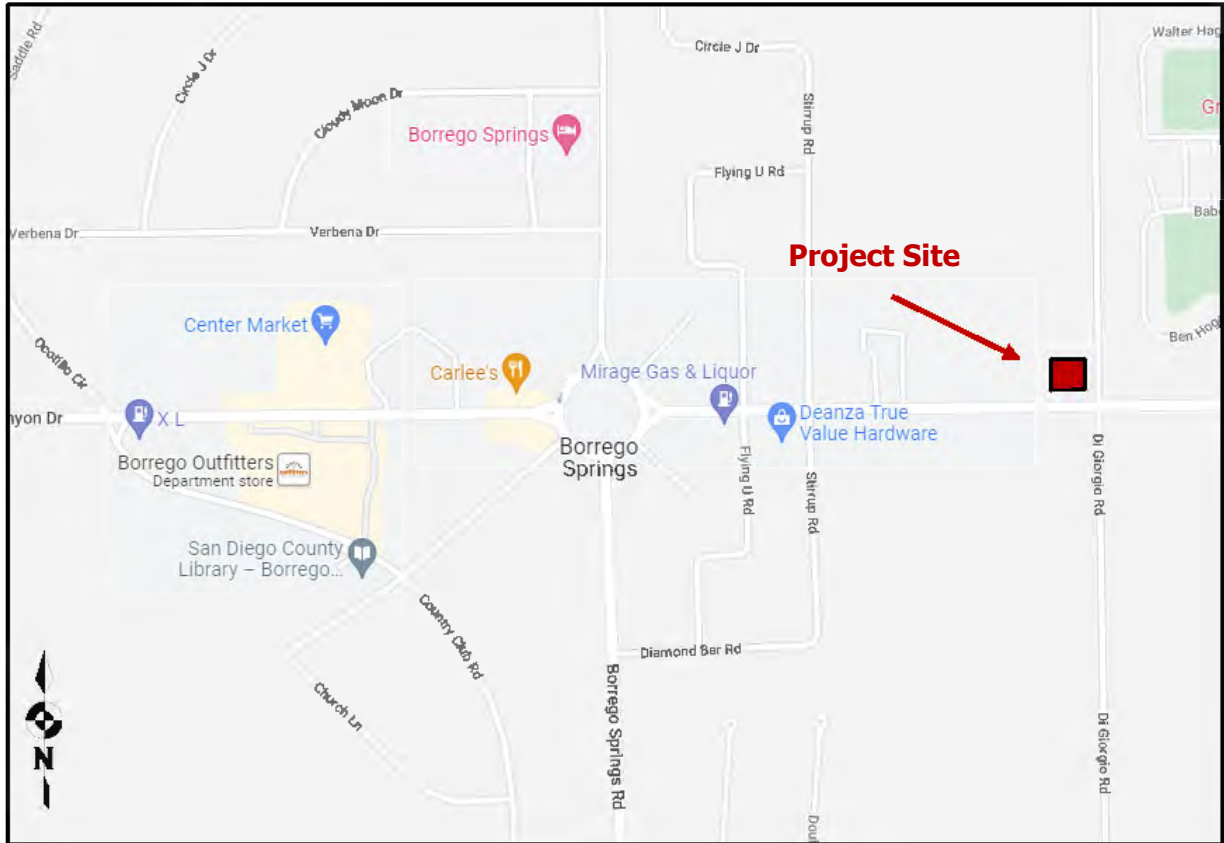
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Figure 1: Site Vicinity Map

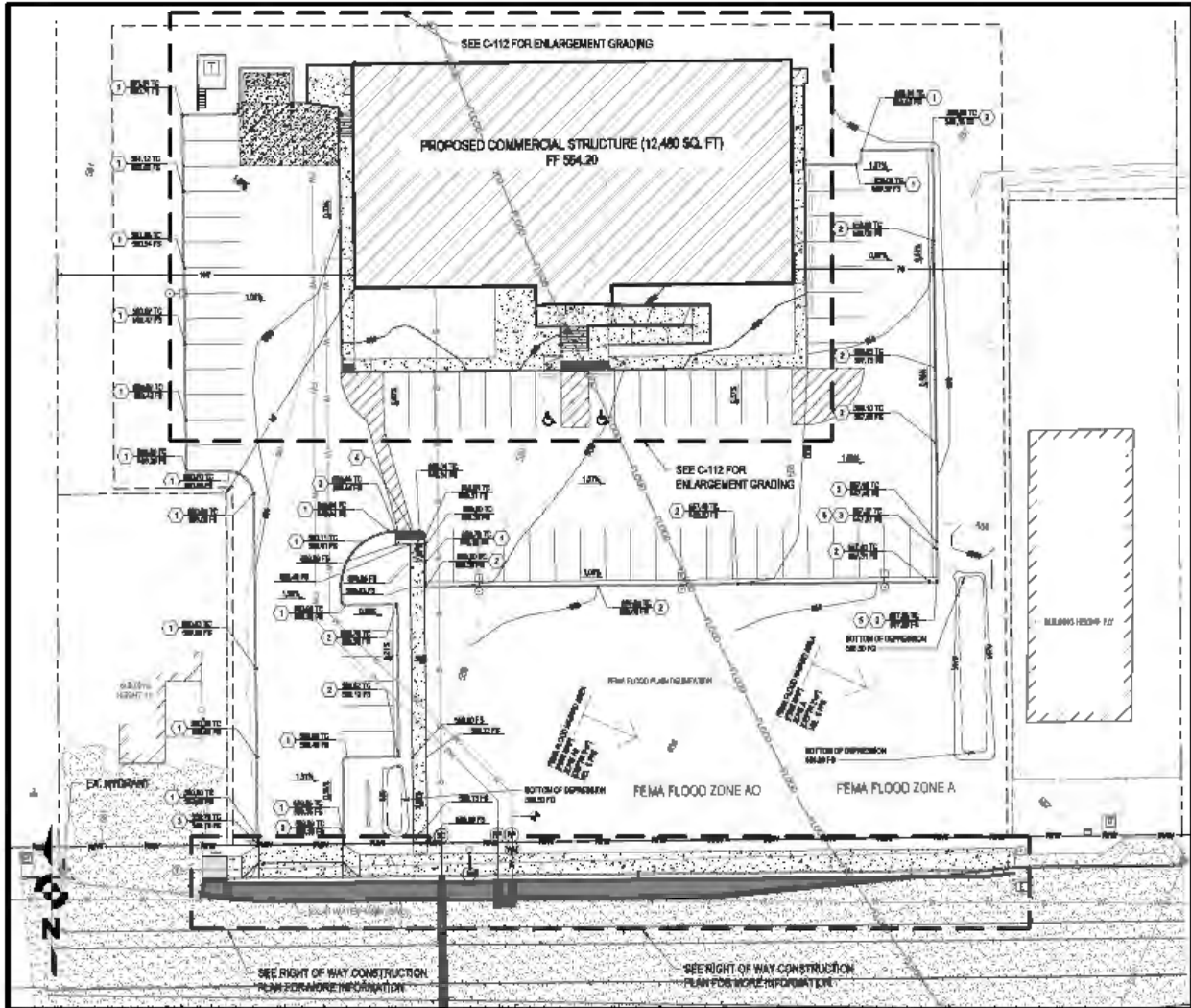


Source: (Google, 2022)

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Figure 2: Proposed Project Site Development Plan



Source: (WSP Inc., 2022)

Should emissions be found to exceed County adopted SLTs, mitigation may be required to demonstrate that the project's total air quality impacts would be less than significant. The SLTs for construction are shown in Table 1.

Table 1: Screening Level Thresholds for Criteria Pollutants

Pollutant	Total Emissions (Pounds per Day)
Construction SLTs	
Respirable Particulate Matter (PM ₁₀)	100
Respirable Fine Particulate Matter (PM _{2.5})	55
Nitrogen Oxide (NO _x)	250
Sulfur Oxide (SO _x)	250
Carbon Monoxide (CO)	550
Volatile Organic Compounds (VOCs)	75
Reactive Organic Gases (ROG) SCAQMD	75

Non-Criteria pollutants such as Hazardous Air Pollutants (HAPs) or Toxic Air Contaminants (TACs) are also regulated by the SDAPCD. Rule 1200 (Toxic Air Contaminants - New Source Review) adopted on June 12, 1996, requires evaluation of potential health risks for any new, relocated, or modified emission unit which may increase emissions of one or more toxic air contaminants. The rule requires that Projects that propose to increase cancer risk to less than one per one million have a less than significant impact. Projects that propose an increased cancer risk to greater than one in one million require implementation of toxics best available control technology (T-BACT) or impose the most effective emission limitation, emission control device or control technique to reduce the cancer risk. Upon providing T-BACT equipment a less than significant impact is expected when the risk is between one and ten per one million exposed. At no time shall the Project increase the incremental cancer risk to over ten in one million or a health hazard index (chronic and acute) greater than one.

The proposed project seeks to start construction in the middle of 2023. The site is currently vacant and would require minimal earthwork. It is expected that the site will require 209 CY of import. The durations and equipment estimates are shown in Table 2 which were provided by the Project Engineer.

Table 2: Proposed Construction Phase and Duration

Equipment Identification	Proposed Start	Proposed Completion	Quantity
Site Preparation	6/1/2023	6/2/2023	
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			1
Grading	6/3/2023	6/16/2023	
Graders			1
Rubber Tired Loaders			1
Tractors/Loaders/Backhoes			1
Trenching	6/17/2023	6/23/2023	
Trenchers			1
Building Construction	6/24/2023	10/27/2023	
Rough Terrain Forklifts			1
Tractors/Loaders/Backhoes			1
Welders			1
Paving	10/16/2023	10/27/2023	
Pavers			1
Paving Equipment			1
Rollers			1
Architectural Coating	10/16/2023	10/27/2023	
Air Compressors			1

Short-term daily air quality construction emissions are reported in pounds per day and are shown in Table 3. Based on the findings of the air quality modeling, construction activities would not generate daily air emissions in excess of the screening level significance thresholds identified in Table 1 above. The CalEEMod input/output model for both construction and operations is shown in **Attachment A** for the summer, winter and annual scenarios.

Table 3: Expected Daily Construction Emissions Summary (Pounds/Day)

Year	ROG	NO _x	CO	SO ₂	PM ₁₀ (Dust)	PM ₁₀ (Exhaust)	PM ₁₀ (Total)	PM _{2.5} (Dust)	PM _{2.5} (Exhaust)	PM _{2.5} (Total)
2023 (lb/day)	1.24	13.99	7.18	0.02	7.27	0.55	7.81	3.47	0.50	3.98
2024 (lb/day)	32.44	9.22	14.02	0.02	0.30	0.40	0.70	0.08	0.37	0.45
County SLT	75	250	550	250	-	-	100	-	-	55
SLT Exceeded?	No	No	No	No	-	-	No	-	-	No

Cancer Risk Modeling

The AERSCREEN dispersion model will be used to determine the concentration for air pollutants at any location near the pollutant generator. Additionally, the model will predict the maximum exposure distance and concentrations. The notable toxic air contaminant from construction is diesel exhaust since exposure to diesel exhaust is known to cause cancer and acute and chronic health effects. Diesel exhaust emissions can be estimated using the annual PM₁₀ exhaust emissions from onsite construction operations obtained from the annual CalEEMod model output by summing each onsite source for the construction duration. The AERSCREEN input/output file for the proposed project is shown in **Attachments B and -C** for both unmitigated and mitigated scenarios.

Once the dispersed concentrations of diesel particulates are estimated in the surrounding air, they are used to evaluate estimated exposure to people. Exposure is evaluated by calculating the dose in milligrams per kilogram body weight per day (mg/kg/d). For residential exposure, the breathing rates are determined for specific age groups, so inhalation dose (Dose_{air}) is calculated for each of these age groups, 3rd trimester, 0<2, 2<9, 2<16, 16<30 and 16-70 years. The following algorithms calculate this dose for exposure through the inhalation pathways. The worst-case cancer risk dose calculation is defined in Equation 1 below (OEHHA, 2015):

$$\text{Equation 1} \quad \text{Dose}_{\text{air}} = C_{\text{air}} * (BR/BW) * A * EF * (1 \times 10^{-6})$$

Dose _{air}	=	Dose through inhalation (mg/kg/d)
C _{air}	=	Concentration in air (µg/m ³) Annual average DPM concentration in µg/m ³ - AERSCREEN predicts a 1-hr concentration and is corrected to an annual average by multiplying the 1-hr average by 0.08 (US EPA, 1992)
BR/BW	=	Daily breathing rate normalized to body weight (L/kg BW-day). See Table I.2 for the daily breathing rate for each age range.
A	=	Inhalation absorption factor (assumed to be 1)
EF	=	Exposure frequency (unitless, days/365 days)
1x10 ⁻⁶	=	Milligrams to micrograms conversion (10 ⁻³ mg/ µg), cubic meters to liters conversion (10 ⁻³ m ³ /l)

Cancer risk is calculated by multiplying the daily inhalation or oral dose, by a cancer potency factor, the age sensitivity factor, the frequency of time spent at home and the exposure duration divided by averaging time, to yield the excess cancer risk. As described below, the excess cancer risk is calculated separately for each age grouping and then summed to yield cancer risk for any given location. Specific factors as modeled are shown within **Attachment D**. The worst-case cancer risk calculation is defined in Equation 2 below (OEHHA, 2015):

Equation 2

$$RISK_{inh-res} = DOSE_{air} \times CPF \times ASF \times ED/AT \times FAH$$

RISK _{inh-res}	=	Residential inhalation cancer risk
DOSE _{air}	=	Daily inhalation dose (mg/kg-day)
CPF	=	Inhalation cancer potency factor (mg/kg-day ⁻¹)
ASF	=	Age sensitivity factor for a specified age group (unitless)
ED	=	Exposure duration (in years) for a specified age group
AT	=	Averaging time for lifetime cancer risk (years)
FAH	=	Fraction of time spent at home (unitless)

The California Office of Environmental Health Hazard Assessment (OEHHA) recommends that an exposure duration (residency time) of 30 years be used to estimate individual cancer risk for the Maximally Exposed Individual Resident (MEIR). OEHHA also recommends that the 30-year exposure duration be used as the basis for public notification and risk reduction audits and plans.

Exposure durations of 9-years and 70-years are also recommended to be evaluated for the MEIR to show the range of cancer risk based on residency periods. If a facility is notifying the public regarding cancer risk, the 9-and 70-year cancer risk estimates are useful for people who have resided in their current residence for periods shorter and longer than 30 years.

Non-Cancer risks or risks defined as chronic or acute. With respect to Diesel Particulate Matter (DPM) only chronic risks are calculated and are determined by the hazard index. To calculate hazard index, DPM concentration is divided by its chronic Reference Exposure Levels (REL). Where the total equals or exceeds one, a health hazard is presumed to exist. RELs are published by the OEHHA (OEHHA, 2015). Diesel Exhaust has a REL of 5 µg/m³ and targets the respiratory system.

Cancer Risk Calculations

Based upon the annual air quality modeling results attached to this report, worst-case unmitigated PM₁₀ from exhaust emissions would cumulatively produce 0.011 tons (over the construction duration of 148-days) or an average of 0.0008 grams/second.

Utilizing the AERSCREEN dispersion model, we find that the annual concentration is 0.535 µg/m³ during construction. Utilizing the risk equation identified above in Section 3.1, the worst-case inhalation cancer risk was found to be 42.51 which would exceed the 1 per one million exposed significance threshold without T-BACT which would be a potentially significant

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impact. Since the site is so small, this risk was identified at the maximum location and is estimated to be 50 meters (164-feet) from the project centroid.

It was found that these impacts can be reduced to less than significant through the utilization of Tier 3 equipment with diesel particulate filtration (DPF). Using this equipment, the project construction emissions would produce 0.0026 tons of PM₁₀ over the same construction duration above or 0.00018 grams/second. Utilizing the AERSCREEN dispersion model, we find that the annual concentration is 0.1224 µg/m³ during construction. Given this, the inhalation cancer risk for the point of maximum exposure is 9.72 which is less than 10 per one million exposed with T-BACT equipment utilized. Based on this, the mitigation measure would bring health risk impacts to less than significant under CEQA. Detailed calculations for both the unmitigated and mitigated scenario are shown in ***Attachment D***.

Finally, there are known chronic health risks associated with diesel exhaust which are considered non-cancer risks. These risks are calculated based on methods identified in Section 3.1 of this report. From this we find that the annual concentration of 0.122 µg/m³ divided by the REL of 5 µg/m³ is obviously less than one. Therefore, no chronic health risks are expected and all health risks are considered less than significant.

Based on the findings, no construction air quality impacts are anticipated, and no further analysis is required. If you have any questions, please do not hesitate to contact me directly at (760) 473-1253.

Sincerely,
Ldn Consulting, Inc.

DRAFT

Jeremy Loudon, Principal

Attachment A: CalEEMod Results (summer, winter and annual)

Attachment B: AERSCREEN Unmitigated Results

Attachment C: AERSCREEN Mitigated Results

Attachment D: Cancer Risk Calculations Unmitigated and Mitigated

Borrego Springs Dollar General Store - San Diego County, Summer

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

Borrego Springs Dollar General Store

San Diego County, Summer

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	34.23	1000sqft	0.79	34,225.00	0
Free-Standing Discount store	12.40	1000sqft	0.42	12,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - disturbed area 1.21 acres

Construction Phase - Construction Schedule provided by applicant

Off-road Equipment -

Off-road Equipment - Per applicant... power provided onsite. Trusses set with rough terrain forklift

Off-road Equipment - ce

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Trenching

Trips and VMT -

Borrego Springs Dollar General Store - San Diego County, Summer

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

Grading -

Vehicle Trips -

Construction Off-road Equipment Mitigation - All vehicles Tier 3 with DPF or better

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Borrego Springs Dollar General Store - San Diego County, Summer

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	4.00	10.00
tblConstructionPhase	NumDays	200.00	90.00
tblLandUse	LandUseSquareFeet	34,230.00	34,225.00
tblLandUse	LotAcreage	0.28	0.42
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

2.0 Emissions Summary

Borrego Springs Dollar General Store - San Diego County, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	32.5038	13.1375	14.0633	0.0242	7.1483	0.5384	7.6867	3.4422	0.4953	3.9375	0.0000	2,323.378 6	2,323.378 6	0.5617	0.0311	2,345.514 6
Maximum	32.5038	13.1375	14.0633	0.0242	7.1483	0.5384	7.6867	3.4422	0.4953	3.9375	0.0000	2,323.378 6	2,323.378 6	0.5617	0.0311	2,345.514 6

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	31.9450	11.0972	15.3981	0.0242	7.1483	0.1017	7.2055	3.4422	0.1015	3.4993	0.0000	2,323.378 6	2,323.378 6	0.5617	0.0311	2,345.514 6
Maximum	31.9450	11.0972	15.3981	0.0242	7.1483	0.1017	7.2055	3.4422	0.1015	3.4993	0.0000	2,323.378 6	2,323.378 6	0.5617	0.0311	2,345.514 6

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.72	15.53	-9.49	0.00	0.00	81.12	6.26	0.00	79.52	11.13	0.00	0.00	0.00	0.00	0.00	0.00

Borrego Springs Dollar General Store - San Diego County, Summer

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

2.2 Overall Operational
Unmitigated Operational

	Category							lb/day						
	ROG	NOx	CO	SO ₂	Fugitive PM ₁₀	Exhaust PM ₁₀	PM ₁₀ Total	Fugitive PM _{2.5}	Exhaust PM _{2.5}	PM _{2.5} Total	Bio- CO ₂	NBio- CO ₂	Total CO ₂	CO _{2e}
Area	0.3632	4.0000e-005	4.7500e-003	0.0000	2.0000e-005	5.6000e-004	2.0000e-005	2.0000e-005	5.6000e-004	2.0000e-005	0.0102	0.0102	3.0000e-005	0.0109
Energy	8.1000e-004	7.3900e-003	6.2100e-003	4.0000e-005	5.6000e-004	5.6000e-004	5.6000e-004	5.6000e-004	5.6000e-004	5.6000e-004	8.8728	8.8728	1.7000e-004	8.9256
Mobile	1.8873	1.5388	13.6220	0.0270	2.8800	0.0214	2.9013	0.7672	0.0199	0.7871	2.818.877	2.818.877	0.2186	2.864.163
Total	2.2513	1.5462	13.6330	0.0270	2.8800	0.0219	2.9019	0.7672	0.0205	0.7876	2,827.760	2,827.760	0.2188	2,873.100

Mitigated Operational

	Category							lb/day						
	ROG	NOx	CO	SO ₂	Fugitive PM ₁₀	Exhaust PM ₁₀	PM ₁₀ Total	Fugitive PM _{2.5}	Exhaust PM _{2.5}	PM _{2.5} Total	Bio- CO ₂	NBio- CO ₂	Total CO ₂	CO _{2e}
Area	0.3632	4.0000e-005	4.7500e-003	0.0000	2.0000e-005	5.6000e-004	2.0000e-005	2.0000e-005	5.6000e-004	2.0000e-005	0.0102	0.0102	3.0000e-005	0.0109
Energy	8.1000e-004	7.3900e-003	6.2100e-003	4.0000e-005	5.6000e-004	5.6000e-004	5.6000e-004	5.6000e-004	5.6000e-004	5.6000e-004	8.8728	8.8728	1.7000e-004	8.9256
Mobile	1.8873	1.5388	13.6220	0.0270	2.8800	0.0214	2.9013	0.7672	0.0199	0.7871	2,818.877	2,818.877	0.2186	2,864.163
Total	2.2513	1.5462	13.6330	0.0270	2.8800	0.0219	2.9019	0.7672	0.0205	0.7876	2,827.760	2,827.760	0.2188	2,873.100

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

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/2/2023	5	2	
2	Grading	Grading	6/3/2023	6/16/2023	5	10	
3	Trenching	Trenching	6/17/2023	6/23/2023	5	5	
4	Building Construction	Building Construction	6/24/2023	10/27/2023	5	90	
5	Paving	Paving	10/16/2023	10/27/2023	5	10	
6	Architectural Coating	Architectural Coating	10/16/2023	10/27/2023	5	10	

Acres of Grading (Site Preparation Phase): 0.88**Acres of Grading (Grading Phase): 10****Acres of Paving: 0.79****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 18,600; Non-Residential Outdoor: 6,200; Striped Parking Area: 2,054 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Borrego Springs Dollar General Store - San Diego County, Summer

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

Trenching	Trenchers	1	6.00	78	0.50
Building Construction	Rough Terrain Forklifts	1	6.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	18.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Borrego Springs Dollar General Store - San Diego County, Summer

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

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7360	0.0000	5.7360	2.9468	0.0000	2.9468			0.0000			0.0000
Off-Road	0.7504	7.7719	4.9494	0.0106		0.3566	0.3566		0.3281	0.3281		1,025.202 1	1,025.202 1	0.3316		1,033.491 4
Total	0.7504	7.7719	4.9494	0.0106	5.7360	0.3566	6.0926	2.9468	0.3281	3.2749		1,025.202 1	1,025.202 1	0.3316		1,033.491 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0137	8.4900e-003	0.1203	3.6000e-004	0.0411	2.2000e-004	0.0413	0.0109	2.0000e-004	0.0111		37.1427	37.1427	9.9000e-004	9.1000e-004	37.4400
Total	0.0137	8.4900e-003	0.1203	3.6000e-004	0.0411	2.2000e-004	0.0413	0.0109	2.0000e-004	0.0111		37.1427	37.1427	9.9000e-004	9.1000e-004	37.4400

Borrego Springs Dollar General Store - San Diego County, Summer

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7360	0.0000	5.7360	2.9468	0.0000	2.9468			0.0000			0.0000
Off-Road	0.2589	5.2717	6.3063	0.0106		0.0384	0.0384		0.0384	0.0384	0.0000	1,025.202 1	1,025.202 1	0.3316		1,033.491 4
Total	0.2589	5.2717	6.3063	0.0106	5.7360	0.0384	5.7743	2.9468	0.0384	2.9852	0.0000	1,025.202 1	1,025.202 1	0.3316		1,033.491 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0137	8.4900e-003	0.1203	3.6000e-004	0.0411	2.2000e-004	0.0413	0.0109	2.0000e-004	0.0111		37.1427	37.1427	9.9000e-004	9.1000e-004	37.4400
Total	0.0137	8.4900e-003	0.1203	3.6000e-004	0.0411	2.2000e-004	0.0413	0.0109	2.0000e-004	0.0111		37.1427	37.1427	9.9000e-004	9.1000e-004	37.4400

Borrego Springs Dollar General Store - San Diego County, Summer

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

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.2006	13.1239	6.7514	0.0179		0.5380	0.5380		0.4950	0.4950		1,731.735 3	1,731.735 3	0.5601		1,745.737 3
Total	1.2006	13.1239	6.7514	0.0179	7.0826	0.5380	7.6206	3.4247	0.4950	3.9197		1,731.735 3	1,731.735 3	0.5601		1,745.737 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0219	0.0136	0.1925	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		59.4283	59.4283	1.5900e-003	1.4600e-003	59.9041
Total	0.0219	0.0136	0.1925	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		59.4283	59.4283	1.5900e-003	1.4600e-003	59.9041

Borrego Springs Dollar General Store - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	0.4378	8.6974	10.0957	0.0179		0.0568	0.0568		0.0568	0.0568	0.0000	1,731.735 3	1,731.735 3	0.5601		1,745.737 3
Total	0.4378	8.6974	10.0957	0.0179	7.0826	0.0568	7.1394	3.4247	0.0568	3.4815	0.0000	1,731.735 3	1,731.735 3	0.5601		1,745.737 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0219	0.0136	0.1925	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		59.4283	59.4283	1.5900e-003	1.4600e-003	59.9041
Total	0.0219	0.0136	0.1925	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		59.4283	59.4283	1.5900e-003	1.4600e-003	59.9041

Borrego Springs Dollar General Store - San Diego County, Summer

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

3.4 Trenching - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.2600	2.4249	1.9441	2.5300e-003		0.1682	0.1682	0.1548	0.1548	0.1548		245.3999	245.3999	0.0794		247.3841
Total	0.2600	2.4249	1.9441	2.5300e-003		0.1682	0.1682	0.1548	0.1548	0.1548		245.3999	245.3999	0.0794		247.3841
lb/day											lb/day					

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	8.2000e-003	5.0900e-003	0.0722	2.2000e-004	0.0246	1.3000e-004	0.0248	6.5400e-003	1.2000e-004	6.6600e-003		22.2856	22.2856	6.0000e-004	5.5000e-004	22.4640
Total	8.2000e-003	5.0900e-003	0.0722	2.2000e-004	0.0246	1.3000e-004	0.0248	6.5400e-003	1.2000e-004	6.6600e-003		22.2856	22.2856	6.0000e-004	5.5000e-004	22.4640
lb/day											lb/day					

Borrego Springs Dollar General Store - San Diego County, Summer

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

3.4 Trenching - 2023

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO ₂	Fugitive PM ₁₀	Exhaust PM ₁₀	PM ₁₀ Total	Fugitive PM _{2.5}	Exhaust PM _{2.5}	PM _{2.5} Total	Bio- CO ₂	NBio- CO ₂	Total CO ₂	CH ₄	N ₂ O	CO _{2e}
Off-Road	0.0619	1.4135	1.9088	2.5300e-003	0.0149	0.0149	0.0149	0.0149	0.0149	0.0149	0.0000	245.3999	245.3999	0.0794		247.3841
Total	0.0619	1.4135	1.9088	2.5300e-003	0.0149	0.0149	0.0149	0.0149	0.0149	0.0149	0.0000	245.3999	245.3999	0.0794		247.3841

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO ₂	Fugitive PM ₁₀	Exhaust PM ₁₀	PM ₁₀ Total	Fugitive PM _{2.5}	Exhaust PM _{2.5}	PM _{2.5} Total	Bio- CO ₂	NBio- CO ₂	Total CO ₂	CH ₄	N ₂ O	CO _{2e}
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2000e-003	5.0900e-003	0.0722	2.2000e-004	0.0246	1.3000e-004	0.0248	6.5400e-003	1.2000e-004	6.6600e-003	22.2856	22.2856	22.2856	6.0000e-004	5.5000e-004	22.4640
Total	8.2000e-003	5.0900e-003	0.0722	2.2000e-004	0.0246	1.3000e-004	0.0248	6.5400e-003	1.2000e-004	6.6600e-003	22.2856	22.2856	22.2856	6.0000e-004	5.5000e-004	22.4640

Borrego Springs Dollar General Store - San Diego County, Summer

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	0.4473	3.6219	5.0669	7.4800e-003	0.1457	0.1457	0.1457	0.1385	0.1385	0.1385	684.0127	684.0127	684.0127	0.1768		688.4316
Total	0.4473	3.6219	5.0669	7.4800e-003	0.1457	0.1457	0.1457	0.1385	0.1385	0.1385	684.0127	684.0127	684.0127	0.1768		688.4316

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															
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	9.5600e-003	0.3429	0.1236	1.6400e-003	0.0542	2.0900e-003	0.0563	0.0156	2.0000e-003	0.0176			176.8376	5.3600e-003	0.0256	184.6018
Worker	0.0492	0.0306	0.4332	1.3100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400			133.7136	3.5800e-003	3.2900e-003	134.7841
Total	0.0588	0.3735	0.5567	2.9500e-003	0.2021	2.8900e-003	0.2049	0.0548	2.7300e-003	0.0576			310.5512	8.9400e-003	0.0289	319.3859

Borrego Springs Dollar General Store - San Diego County, Summer

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO ₂	Fugitive PM ₁₀	Exhaust PM ₁₀	PM ₁₀ Total	Fugitive PM _{2.5}	Exhaust PM _{2.5}	PM _{2.5} Total	Bio- CO ₂	NBio- CO ₂	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Off-Road	0.2263	4.4409	5.2111	7.4800e-003		0.0442	0.0442		0.0442	0.0442	0.0000	684.0127	684.0127	0.1768		688.4316
Total	0.2263	4.4409	5.2111	7.4800e-003		0.0442	0.0442		0.0442	0.0442	0.0000	684.0127	684.0127	0.1768		688.4316
lb/day											lb/day					

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO ₂	Fugitive PM ₁₀	Exhaust PM ₁₀	PM ₁₀ Total	Fugitive PM _{2.5}	Exhaust PM _{2.5}	PM _{2.5} Total	Bio- CO ₂	NBio- CO ₂	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.5600e-003	0.3429	0.1236	1.6400e-003	0.0542	2.0900e-003	0.0563	0.0156	2.0000e-003	0.0176		176.8376	176.8376	5.3600e-003	0.0256	184.6018
Worker	0.0492	0.0306	0.4332	1.3100e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		133.7136	133.7136	3.5800e-003	3.2900e-003	134.7841
Total	0.0588	0.3735	0.5567	2.9500e-003	0.2021	2.8900e-003	0.2049	0.0548	2.7300e-003	0.0576		310.5512	310.5512	8.9400e-003	0.0289	319.3859
lb/day											lb/day					

Borrego Springs Dollar General Store - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Paving - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4492	4.4239	6.3398	9.9000e-003		0.2219	0.2219		0.2041	0.2041		958.2243	958.2243	0.3099		965.9720
Paving	0.2070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6562	4.4239	6.3398	9.9000e-003		0.2219	0.2219		0.2041	0.2041		958.2243	958.2243	0.3099		965.9720

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0219	0.0136	0.1925	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		59.4283	59.4283	1.5900e-003	1.4600e-003	59.9041
Total	0.0219	0.0136	0.1925	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		59.4283	59.4283	1.5900e-003	1.4600e-003	59.9041

Borrego Springs Dollar General Store - San Diego County, Summer

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

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2435	4.9055	7.5091	9.9000e-003		0.0397	0.0397		0.0397	0.0397	0.0000	958.2243	958.2243	0.3099		965.9720
Paving	0.2070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4505	4.9055	7.5091	9.9000e-003		0.0397	0.0397		0.0397	0.0397	0.0000	958.2243	958.2243	0.3099		965.9720

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0219	0.0136	0.1925	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		59.4283	59.4283	1.5900e-003	1.4600e-003	59.9041
Total	0.0219	0.0136	0.1925	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		59.4283	59.4283	1.5900e-003	1.4600e-003	59.9041

Borrego Springs Dollar General Store - San Diego County, Summer

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

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.1171					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	31.3087	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0109	6.7900e-003	0.0963	2.9000e-004	0.0329	1.8000e-004	0.0330	8.7200e-003	1.6000e-004	8.8800e-003		29.7141	29.7141	8.0000e-004	7.3000e-004	29.9520
Total	0.0109	6.7900e-003	0.0963	2.9000e-004	0.0329	1.8000e-004	0.0330	8.7200e-003	1.6000e-004	8.8800e-003		29.7141	29.7141	8.0000e-004	7.3000e-004	29.9520

Borrego Springs Dollar General Store - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.7 Architectural Coating - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.1171					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0168		281.8690
Total	31.1765	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0109	6.7900e-003	0.0963	2.9000e-004	0.0329	1.8000e-004	0.0330	8.7200e-003	1.6000e-004	8.8800e-003		29.7141	29.7141	8.0000e-004	7.3000e-004	29.9520
Total	0.0109	6.7900e-003	0.0963	2.9000e-004	0.0329	1.8000e-004	0.0330	8.7200e-003	1.6000e-004	8.8800e-003		29.7141	29.7141	8.0000e-004	7.3000e-004	29.9520

Borrego Springs Dollar General Store - San Diego County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8873	1.5388	13.6220	0.0270	2.8800	0.0214	2.9013	0.7672	0.0199	0.7871		2,818.8775	2,818.8775	0.2186	0.1336	2,864.1639
Unmitigated	1.8873	1.5388	13.6220	0.0270	2.8800	0.0214	2.9013	0.7672	0.0199	0.7871		2,818.8775	2,818.8775	0.2186	0.1336	2,864.1639

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Free-Standing Discount store	658.69	877.42	746.60	1,095,374	1,095,374
Parking Lot	0.00	0.00	0.00		
Total	658.69	877.42	746.60	1,095,374	1,095,374

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
Free-Standing Discount store	9.50	7.30	7.30	12.20	68.80	19.00	47.5	35.5	17
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Borrego Springs Dollar General Store - San Diego County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Free-Standing Discount store	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751
Parking Lot	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.1000e-004	7.3900e-003	6.2100e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8728	8.8728	1.7000e-004	1.6000e-004	8.9256
NaturalGas Unmitigated	8.1000e-004	7.3900e-003	6.2100e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8728	8.8728	1.7000e-004	1.6000e-004	8.9256

Borrego Springs Dollar General Store - San Diego County, Summer

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

5.2 Energy by Land Use - 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					
Free-Standing Discount store	75.4192	8.1000e-004	7.3900e-003	6.2100e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8728	8.8728	1.7000e-004	1.6000e-004	8.9256
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		8.1000e-004	7.3900e-003	6.2100e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8728	8.8728	1.7000e-004	1.6000e-004	8.9256

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					
Free-Standing Discount store	0.0754192	8.1000e-004	7.3900e-003	6.2100e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8728	8.8728	1.7000e-004	1.6000e-004	8.9256
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		8.1000e-004	7.3900e-003	6.2100e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8728	8.8728	1.7000e-004	1.6000e-004	8.9256

6.0 Area Detail

Borrego Springs Dollar General Store - San Diego County, Summer

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3632	4.0000e-005	4.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0102	0.0102	3.0000e-005		0.0109
Unmitigated	0.3632	4.0000e-005	4.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0102	0.0102	3.0000e-005		0.0109

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	0.0853					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2775					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4000e-004	4.0000e-005	4.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0102	0.0102	3.0000e-005		0.0109
Total	0.3632	4.0000e-005	4.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0102	0.0102	3.0000e-005		0.0109

Borrego Springs Dollar General Store - San Diego County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0853					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2775					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4000e-004	4.0000e-005	4.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0102	0.0102	3.0000e-005		0.0109
Total	0.3632	4.0000e-005	4.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0102	0.0102	3.0000e-005		0.0109

7.0 Water Detail

7.1 Mitigation Measures Water

Borrego Springs Dollar General Store - San Diego County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Borrego Springs Dollar General Store - San Diego County, Winter

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

Borrego Springs Dollar General Store

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	34.23	1000sqft	0.79	34,225.00	0
Free-Standing Discount store	12.40	1000sqft	0.42	12,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - disturbed area 1.21 acres

Construction Phase - Construction Schedule provided by applicant

Off-road Equipment -

Off-road Equipment - Per applicant... power provided onsite. Trusses set with rough terrain forklift

Off-road Equipment - ce

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Trenching

Trips and VMT -

Borrego Springs Dollar General Store - San Diego County, Winter

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

Grading -

Vehicle Trips -

Construction Off-road Equipment Mitigation - All vehicles Tier 3 with DPF or better

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Borrego Springs Dollar General Store - San Diego County, Winter

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	4.00	10.00
tblConstructionPhase	NumDays	200.00	90.00
tblLandUse	LandUseSquareFeet	34,230.00	34,225.00
tblLandUse	LotAcreage	0.28	0.42
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

2.0 Emissions Summary

Borrego Springs Dollar General Store - San Diego County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	32.5104	13.1392	14.0311	0.0240	7.1483	0.5384	7.6867	3.4422	0.4953	3.9375	0.0000	2,311.380 1	2,311.380 1	0.5618	0.0316	2,333.676 3
Maximum	32.5104	13.1392	14.0311	0.0240	7.1483	0.5384	7.6867	3.4422	0.4953	3.9375	0.0000	2,311.380 1	2,311.380 1	0.5618	0.0316	2,333.676 3

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	31.9516	11.1180	15.3659	0.0240	7.1483	0.1017	7.2055	3.4422	0.1015	3.4993	0.0000	2,311.380 1	2,311.380 1	0.5618	0.0316	2,333.676 3
Maximum	31.9516	11.1180	15.3659	0.0240	7.1483	0.1017	7.2055	3.4422	0.1015	3.4993	0.0000	2,311.380 1	2,311.380 1	0.5618	0.0316	2,333.676 3

	ROG	NOx	CO	SO2	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	1.72	15.38	-9.51	0.00	0.00	81.12	6.26	0.00	79.52	11.13	0.00	0.00	0.00	0.00	0.00	0.00

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

Category		lb/day										lb/day					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area	0.3632	4.000e-005	4.750e-003	0.000	2.000e-005	2.000e-005	2.000e-005	2.000e-005	2.000e-005	2.000e-005	0.0102	0.0102	3.000e-005			0.0109	
	8.1000e-004	7.3900e-003	6.2100e-003	4.000e-005	5.6000e-004	5.6000e-004	5.6000e-004	5.6000e-004	5.6000e-004	5.6000e-004	8.8728	8.8728	1.7000e-004	1.6000e-004		8.9256	
	1.8137	1.6720	14.4020	0.0258	2.8800	0.0214	2.9014	0.7672	0.0199	0.7871	2.699.787	2.699.787	0.2360	0.1415		2.747.838	
	1.8137	1.6720	14.4020	0.0258	2.8800	0.0214	2.9014	0.7672	0.0199	0.7871	2.699.787	2.699.787	0.2360	0.1415		2.747.838	
Energy	8.1000e-004	7.3900e-003	6.2100e-003	4.000e-005	5.6000e-004	5.6000e-004	5.6000e-004	5.6000e-004	5.6000e-004	5.6000e-004	8.8728	8.8728	1.7000e-004	1.6000e-004		8.9256	
Mobile	1.8137	1.6720	14.4020	0.0258	2.8800	0.0214	2.9014	0.7672	0.0199	0.7871	2.699.787	2.699.787	0.2360	0.1415		2.747.838	
Total	2.1777	1.6795	14.4129	0.0259	2.8800	0.0219	2.9019	0.7672	0.0205	0.7877	2,708.670	2,708.670	0.2362	0.1416		2,756.775	

Category		lb/day										lb/day				
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Area	0.3632	4.000e-005	4.750e-003	0.0000	2.000e-005	2.000e-005	2.000e-005	2.000e-005	2.000e-005	2.000e-005	0.0102	0.0102	3.000e-005			0.0109
	8.100e-004	7.390e-003	6.210e-003	4.000e-005	5.600e-004	5.600e-004	5.600e-004	5.600e-004	5.600e-004	5.600e-004	8.8728	8.8728	1.700e-004	1.600e-004		8.9256
	1.8137	1.6720	14.4020	0.0258	2.8800	0.0214	2.9014	0.7672	0.0199	0.7871	2.699.787	2.699.787	0.2360	0.1415		2.747.838
	2.1777	1.6795	14.4129	0.0259	2.8800	0.0219	2.9019	0.7672	0.0205	0.7877	2.708.670	2.708.670	0.2362	0.1416		2.756.775
Total											6	6				1

Borrego Springs Dollar General Store - San Diego County, Winter

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

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/2/2023	5	2	
2	Grading	Grading	6/3/2023	6/16/2023	5	10	
3	Trenching	Trenching	6/17/2023	6/23/2023	5	5	
4	Building Construction	Building Construction	6/24/2023	10/27/2023	5	90	
5	Paving	Paving	10/16/2023	10/27/2023	5	10	
6	Architectural Coating	Architectural Coating	10/16/2023	10/27/2023	5	10	

Acres of Grading (Site Preparation Phase): 0.88**Acres of Grading (Grading Phase): 10****Acres of Paving: 0.79****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 18,600; Non-Residential Outdoor: 6,200; Striped Parking Area: 2,054 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Borrego Springs Dollar General Store - San Diego County, Winter

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

Trenching	Trenchers	1	6.00	78	0.50
Building Construction	Rough Terrain Forklifts	1	6.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	18.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Borrego Springs Dollar General Store - San Diego County, Winter

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

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7360	0.0000	5.7360	2.9468	0.0000	2.9468			0.0000			0.0000
Off-Road	0.7504	7.7719	4.9494	0.0106		0.3566	0.3566		0.3281	0.3281		1,025.202 1	1,025.202 1	0.3316		1,033.491 4
Total	0.7504	7.7719	4.9494	0.0106	5.7360	0.3566	6.0926	2.9468	0.3281	3.2749		1,025.202 1	1,025.202 1	0.3316		1,033.491 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0148	9.5500e-003	0.1143	3.4000e-004	0.0411	2.2000e-004	0.0413	0.0109	2.0000e-004	0.0111		35.1010	35.1010	1.0600e-003	9.9000e-004	35.4222
Total	0.0148	9.5500e-003	0.1143	3.4000e-004	0.0411	2.2000e-004	0.0413	0.0109	2.0000e-004	0.0111		35.1010	35.1010	1.0600e-003	9.9000e-004	35.4222

Borrego Springs Dollar General Store - San Diego County, Winter

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

3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7360	0.0000	5.7360	2.9468	0.0000	2.9468			0.0000			0.0000
Off-Road	0.2589	5.2717	6.3063	0.0106		0.0384	0.0384		0.0384	0.0384	0.0000	1,025.202 1	1,025.202 1	0.3316		1,033.491 4
Total	0.2589	5.2717	6.3063	0.0106	5.7360	0.0384	5.7743	2.9468	0.0384	2.9852	0.0000	1,025.202 1	1,025.202 1	0.3316		1,033.491 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0148	9.5500e-003	0.1143	3.4000e-004	0.0411	2.2000e-004	0.0413	0.0109	2.0000e-004	0.0111		35.1010	35.1010	1.0600e-003	9.9000e-004	35.4222
Total	0.0148	9.5500e-003	0.1143	3.4000e-004	0.0411	2.2000e-004	0.0413	0.0109	2.0000e-004	0.0111		35.1010	35.1010	1.0600e-003	9.9000e-004	35.4222

Borrego Springs Dollar General Store - San Diego County, Winter

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

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.2006	13.1239	6.7514	0.0179		0.5380	0.5380		0.4950	0.4950		1,731.735 3	1,731.735 3	0.5601		1,745.737 3
Total	1.2006	13.1239	6.7514	0.0179	7.0826	0.5380	7.6206	3.4247	0.4950	3.9197		1,731.735 3	1,731.735 3	0.5601		1,745.737 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0237	0.0153	0.1829	5.5000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		56.1616	56.1616	1.6900e-003	1.5800e-003	56.6755
Total	0.0237	0.0153	0.1829	5.5000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		56.1616	56.1616	1.6900e-003	1.5800e-003	56.6755

Borrego Springs Dollar General Store - San Diego County, Winter

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

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	0.4378	8.6974	10.0957	0.0179		0.0568	0.0568		0.0568	0.0568	0.0000	1,731.735 3	1,731.735 3	0.5601		1,745.737 3
Total	0.4378	8.6974	10.0957	0.0179	7.0826	0.0568	7.1394	3.4247	0.0568	3.4815	0.0000	1,731.735 3	1,731.735 3	0.5601		1,745.737 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0237	0.0153	0.1829	5.5000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		56.1616	56.1616	1.6900e-003	1.5800e-003	56.6755
Total	0.0237	0.0153	0.1829	5.5000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		56.1616	56.1616	1.6900e-003	1.5800e-003	56.6755

Borrego Springs Dollar General Store - San Diego County, Winter

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

3.4 Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO ₂	Fugitive PM ₁₀	Exhaust PM ₁₀	PM ₁₀ Total	Fugitive PM _{2.5}	Exhaust PM _{2.5}	PM _{2.5} Total	Bio- CO ₂	NBio- CO ₂	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Category	lb/day										lb/day					
Off-Road	0.2600	2.4249	1.9441	2.5300e-003		0.1682	0.1682	0.1548	0.1548	0.1548	245.3999	245.3999	245.3999	0.0794		247.3841
Total	0.2600	2.4249	1.9441	2.5300e-003		0.1682	0.1682	0.1548	0.1548	0.1548						247.3841

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO ₂	Fugitive PM ₁₀	Exhaust PM ₁₀	PM ₁₀ Total	Fugitive PM _{2.5}	Exhaust PM _{2.5}	PM _{2.5} Total	Bio- CO ₂	NBio- CO ₂	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000						0.0000
Worker	8.9000e-003	5.7300e-003	0.0686	2.1000e-004	0.0246	1.3000e-004	0.0248	6.5400e-003	1.2000e-004	6.6600e-003	21.0606	21.0606	21.0606	6.4000e-004	5.9000e-004	21.2533
Total	8.9000e-003	5.7300e-003	0.0686	2.1000e-004	0.0246	1.3000e-004	0.0248	6.5400e-003	1.2000e-004	6.6600e-003	21.0606	21.0606	21.0606	6.4000e-004	5.9000e-004	21.2533

Borrego Springs Dollar General Store - San Diego County, Winter

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

3.4 Trenching - 2023

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO ₂	Fugitive PM ₁₀	Exhaust PM ₁₀	PM ₁₀ Total	Fugitive PM _{2.5}	Exhaust PM _{2.5}	PM _{2.5} Total	Bio- CO ₂	NBio- CO ₂	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Off-Road	0.0619	1.4135	1.9088	2.5300e-003	0.0149	0.0149	0.0149	0.0149	0.0149	0.0149	0.0000	245.3999	245.3999	0.0794		247.3841
Total	0.0619	1.4135	1.9088	2.5300e-003	0.0149	0.0149	0.0149	0.0149	0.0149	0.0149	0.0000	245.3999	245.3999	0.0794		247.3841

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO ₂	Fugitive PM ₁₀	Exhaust PM ₁₀	PM ₁₀ Total	Fugitive PM _{2.5}	Exhaust PM _{2.5}	PM _{2.5} Total	Bio- CO ₂	NBio- CO ₂	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.9000e-003	5.7300e-003	0.0686	2.1000e-004	0.0246	1.3000e-004	0.0248	6.5400e-003	1.2000e-004	6.6600e-003	21.0606	21.0606	21.0606	6.4000e-004	5.9000e-004	21.2533
Total	8.9000e-003	5.7300e-003	0.0686	2.1000e-004	0.0246	1.3000e-004	0.0248	6.5400e-003	1.2000e-004	6.6600e-003	21.0606	21.0606	21.0606	6.4000e-004	5.9000e-004	21.2533

Borrego Springs Dollar General Store - San Diego County, Winter

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.4473	3.6219	5.0669	7.4800e-003	0.1457	0.1457	0.1457	0.1385	0.1385	0.1385	684.0127	684.0127	684.0127	0.1768		688.4316
Total	0.4473	3.6219	5.0669	7.4800e-003	0.1457	0.1457	0.1457	0.1385	0.1385	0.1385	684.0127	684.0127	684.0127	0.1768		688.4316
lb/day											lb/day					

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2900e-003	0.3574	0.1273	1.6400e-003	0.0542	2.1000e-003	0.0563	0.0156	2.0100e-003	0.0176	177.0890	177.0890	177.0890	5.3300e-003	0.0257	184.8704
Worker	0.0534	0.0344	0.4116	1.2300e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400	126.3637	126.3637	126.3637	3.8100e-003	3.5600e-003	127.5200
Total	0.0627	0.3918	0.5389	2.8700e-003	0.2021	2.9000e-003	0.2049	0.0548	2.7400e-003	0.0576	303.4526	303.4526	303.4526	9.1400e-003	0.0292	312.3903
lb/day											lb/day					

Borrego Springs Dollar General Store - San Diego County, Winter

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Off-Road	0.2263	4.4409	5.2111	7.4800e-003		0.0442	0.0442		0.0442	0.0442	0.0000	684.0127	684.0127	0.1768		688.4316
Total	0.2263	4.4409	5.2111	7.4800e-003		0.0442	0.0442		0.0442	0.0442	0.0000	684.0127	684.0127	0.1768		688.4316
lb/day											lb/day					

Mitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.2900e-003	0.3574	0.1273	1.6400e-003	0.0542	2.1000e-003	0.0563	0.0156	2.0100e-003	0.0176		177.0890	177.0890	5.3300e-003	0.0257	184.8704
Worker	0.0534	0.0344	0.4116	1.2300e-003	0.1479	8.0000e-004	0.1487	0.0392	7.3000e-004	0.0400		126.3637	126.3637	3.8100e-003	3.5600e-003	127.5200
Total	0.0627	0.3918	0.5389	2.8700e-003	0.2021	2.9000e-003	0.2049	0.0548	2.7400e-003	0.0576		303.4526	303.4526	9.1400e-003	0.0292	312.3903
lb/day											lb/day					

Borrego Springs Dollar General Store - San Diego County, Winter

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

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4492	4.4239	6.3398	9.9000e-003		0.2219	0.2219		0.2041	0.2041		958.2243	958.2243	0.3099		965.9720
Paving	0.2070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6562	4.4239	6.3398	9.9000e-003		0.2219	0.2219		0.2041	0.2041		958.2243	958.2243	0.3099		965.9720

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0237	0.0153	0.1829	5.5000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		56.1616	56.1616	1.6900e-003	1.5800e-003	56.6755
Total	0.0237	0.0153	0.1829	5.5000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		56.1616	56.1616	1.6900e-003	1.5800e-003	56.6755

Borrego Springs Dollar General Store - San Diego County, Winter

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

3.6 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2435	4.9055	7.5091	9.9000e-003		0.0397	0.0397		0.0397	0.0397	0.0000	958.2243	958.2243	0.3099		965.9720
Paving	0.2070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4505	4.9055	7.5091	9.9000e-003		0.0397	0.0397		0.0397	0.0397	0.0000	958.2243	958.2243	0.3099		965.9720

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0237	0.0153	0.1829	5.5000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		56.1616	56.1616	1.6900e-003	1.5800e-003	56.6755
Total	0.0237	0.0153	0.1829	5.5000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.3000e-004	0.0178		56.1616	56.1616	1.6900e-003	1.5800e-003	56.6755

Borrego Springs Dollar General Store - San Diego County, Winter

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

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.1171					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	31.3087	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0119	7.6400e-003	0.0915	2.7000e-004	0.0329	1.8000e-004	0.0330	8.7200e-003	1.6000e-004	8.8800e-003		28.0808	28.0808	8.5000e-004	7.9000e-004	28.3378
Total	0.0119	7.6400e-003	0.0915	2.7000e-004	0.0329	1.8000e-004	0.0330	8.7200e-003	1.6000e-004	8.8800e-003		28.0808	28.0808	8.5000e-004	7.9000e-004	28.3378

Borrego Springs Dollar General Store - San Diego County, Winter

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

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.1171					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0168		281.8690
Total	31.1765	1.3570	1.8324	2.9700e-003		0.0143	0.0143		0.0143	0.0143	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0119	7.6400e-003	0.0915	2.7000e-004	0.0329	1.8000e-004	0.0330	8.7200e-003	1.6000e-004	8.8800e-003		28.0808	28.0808	8.5000e-004	7.9000e-004	28.3378
Total	0.0119	7.6400e-003	0.0915	2.7000e-004	0.0329	1.8000e-004	0.0330	8.7200e-003	1.6000e-004	8.8800e-003		28.0808	28.0808	8.5000e-004	7.9000e-004	28.3378

Borrego Springs Dollar General Store - San Diego County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8137	1.6720	14.4020	0.0258	2.8800	0.0214	2.9014	0.7672	0.0199	0.7871		2,699.7875	2,699.7875	0.2360	0.1415	2,747.8386
Unmitigated	1.8137	1.6720	14.4020	0.0258	2.8800	0.0214	2.9014	0.7672	0.0199	0.7871		2,699.7875	2,699.7875	0.2360	0.1415	2,747.8386

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Free-Standing Discount store	658.69	877.42	746.60	1,095,374	1,095,374
Parking Lot	0.00	0.00	0.00		
Total	658.69	877.42	746.60	1,095,374	1,095,374

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
Free-Standing Discount store	9.50	7.30	7.30	12.20	68.80	19.00	47.5	35.5	17
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Borrego Springs Dollar General Store - San Diego County, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Free-Standing Discount store	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751
Parking Lot	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.1000e-004	7.3900e-003	6.2100e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8728	8.8728	1.7000e-004	1.6000e-004	8.9256
NaturalGas Unmitigated	8.1000e-004	7.3900e-003	6.2100e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8728	8.8728	1.7000e-004	1.6000e-004	8.9256

Borrego Springs Dollar General Store - San Diego County, Winter

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

5.2 Energy by Land Use - 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					
Free-Standing Discount store	75.4192	8.1000e-004	7.3900e-003	6.2100e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8728	8.8728	1.7000e-004	1.6000e-004	8.9256
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		8.1000e-004	7.3900e-003	6.2100e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8728	8.8728	1.7000e-004	1.6000e-004	8.9256

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					
Free-Standing Discount store	0.0754192	8.1000e-004	7.3900e-003	6.2100e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8728	8.8728	1.7000e-004	1.6000e-004	8.9256
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		8.1000e-004	7.3900e-003	6.2100e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8728	8.8728	1.7000e-004	1.6000e-004	8.9256

6.0 Area Detail

Borrego Springs Dollar General Store - San Diego County, Winter

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3632	4.0000e-005	4.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0102	0.0102	3.0000e-005		0.0109
Unmitigated	0.3632	4.0000e-005	4.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0102	0.0102	3.0000e-005		0.0109

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	0.0853					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2775					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4000e-004	4.0000e-005	4.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0102	0.0102	3.0000e-005		0.0109
Total	0.3632	4.0000e-005	4.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0102	0.0102	3.0000e-005		0.0109

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0853					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2775					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4000e-004	4.0000e-005	4.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0102	0.0102	3.0000e-005		0.0109
Total	0.3632	4.0000e-005	4.7500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0102	0.0102	3.0000e-005		0.0109

7.0 Water Detail

7.1 Mitigation Measures Water

Borrego Springs Dollar General Store - San Diego County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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

Borrego Springs Dollar General Store

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	34.23	1000sqft	0.79	34,225.00	0
Free-Standing Discount store	12.40	1000sqft	0.42	12,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - disturbed area 1.21 acres

Construction Phase - Construction Schedule provided by applicant

Off-road Equipment -

Off-road Equipment - Per applicant... power provided onsite. Trusses set with rough terrain forklift

Off-road Equipment - ce

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Trenching

Trips and VMT -

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

Grading -

Vehicle Trips -

Construction Off-road Equipment Mitigation - All vehicles Tier 3 with DPF or better

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	4.00	10.00
tblConstructionPhase	NumDays	200.00	90.00
tblLandUse	LandUseSquareFeet	34,230.00	34,225.00
tblLandUse	LotAcreage	0.28	0.42
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1903	0.2888	0.3391	6.4000e-004	0.0509	0.0116	0.0626	0.0227	0.0109	0.0337	0.0000	56.0389	56.0389	0.0121	1.2100e-003	56.7022
Maximum	0.1903	0.2888	0.3391	6.4000e-004	0.0509	0.0116	0.0626	0.0227	0.0109	0.0337	0.0000	56.0389	56.0389	0.0121	1.2100e-003	56.7022

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1738	0.3012	0.3695	6.4000e-004	0.0509	2.7600e-003	0.0537	0.0227	2.7500e-003	0.0255	0.0000	56.0388	56.0388	0.0121	1.2100e-003	56.7022
Maximum	0.1738	0.3012	0.3695	6.4000e-004	0.0509	2.7600e-003	0.0537	0.0227	2.7500e-003	0.0255	0.0000	56.0388	56.0388	0.0121	1.2100e-003	56.7022

	ROG	NOx	CO	SO2	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	8.64	-4.29	-8.98	0.00	0.00	76.25	14.18	0.00	74.82	24.31	0.00	0.00	0.00	0.00	0.00	0.00

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2023	8-31-2023	0.1956	0.1792
2	9-1-2023	9-30-2023	0.0482	0.0546
		Highest	0.1956	0.1792

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	0.0662	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.9000e-004
Energy	1.5000e-004	1.3500e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	41.5168	41.5168	2.4800e-003	3.2000e-004	41.6752
Mobile	0.2589	0.2402	2.0421	3.7900e-003	0.4097	3.1100e-003	0.4129	0.1094	2.9000e-003	0.1123	0.0000	358.7936	358.7936	0.0305	0.0185	365.0565
Waste						0.0000	0.0000		0.0000	0.0000	10.8255	0.0000	10.8255	0.6398	0.0000	26.8197
Water						0.0000	0.0000		0.0000	0.0000	0.2914	4.4612	4.7526	0.0302	7.4000e-004	5.7281
Total	0.3253	0.2415	2.0437	3.8000e-003	0.4097	3.2100e-003	0.4130	0.1094	3.0000e-003	0.1124	11.1169	404.7724	415.8893	0.7029	0.0195	439.2804

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0662	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.9000e-004
Energy	1.5000e-004	1.3500e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	41.5168	41.5168	2.4800e-003	3.2000e-004	41.6752
Mobile	0.2589	0.2402	2.0421	3.7900e-003	0.4097	3.1100e-003	0.4129	0.1094	2.9000e-003	0.1123	0.0000	358.7936	358.7936	0.0305	0.0185	365.0565
Waste						0.0000	0.0000		0.0000	0.0000	10.8255	0.0000	10.8255	0.6398	0.0000	26.8197
Water						0.0000	0.0000		0.0000	0.0000	0.2914	4.4612	4.7526	0.0302	7.4000e-004	5.7281
Total	0.3253	0.2415	2.0437	3.8000e-003	0.4097	3.2100e-003	0.4130	0.1094	3.0000e-003	0.1124	11.1169	404.7724	415.8893	0.7029	0.0195	439.2804

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2023	6/2/2023	5	2	
2	Grading	Grading	6/3/2023	6/16/2023	5	10	
3	Trenching	Trenching	6/17/2023	6/23/2023	5	5	

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4	Building Construction	Building Construction	6/24/2023	10/27/2023	5	90
5	Paving	Paving	10/16/2023	10/27/2023	5	10
6	Architectural Coating	Architectural Coating	10/16/2023	10/27/2023	5	10

Acres of Grading (Site Preparation Phase): 0.88**Acres of Grading (Grading Phase): 10****Acres of Paving: 0.79****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 18,600; Non-Residential Outdoor: 6,200; Striped Parking Area: 2,054 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Trenching	Trenchers	1	6.00	78	0.50
Building Construction	Rough Terrain Forklifts	1	6.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	18.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Site Preparation - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.7400e-003	0.0000	5.7400e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.5000e-004	7.7700e-003	4.9500e-003	1.0000e-005		3.6000e-004	3.6000e-004		3.3000e-004	3.3000e-004	0.0000	0.9301	0.9301	3.0000e-004	0.0000	0.9376
Total	7.5000e-004	7.7700e-003	4.9500e-003	1.0000e-005	5.7400e-003	3.6000e-004	6.1000e-003	2.9500e-003	3.3000e-004	3.2800e-003	0.0000	0.9301	0.9301	3.0000e-004	0.0000	0.9376

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3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.0000e-005	1.0000e-005	1.1000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0321	0.0321	0.0000	0.0000	0.0324
Total	1.0000e-005	1.0000e-005	1.1000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0321	0.0321	0.0000	0.0000	0.0324

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.7400e-003	0.0000	5.7400e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6000e-004	5.2700e-003	6.3100e-003	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.9301	0.9301	3.0000e-004	0.0000	0.9376
Total	2.6000e-004	5.2700e-003	6.3100e-003	1.0000e-005	5.7400e-003	4.0000e-005	5.7800e-003	2.9500e-003	4.0000e-005	2.9900e-003	0.0000	0.9301	0.9301	3.0000e-004	0.0000	0.9376

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3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.0000e-005	1.0000e-005	1.1000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0321	0.0321	0.0000	0.0000	0.0324
Total	1.0000e-005	1.0000e-005	1.1000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0321	0.0321	0.0000	0.0000	0.0324

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0354	0.0000	0.0354	0.0171	0.0000	0.0171	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-003	0.0656	0.0338	9.0000e-005		2.6900e-003	2.6900e-003		2.4700e-003	2.4700e-003	0.0000	7.8550	7.8550	2.5400e-003	0.0000	7.9185
Total	6.0000e-003	0.0656	0.0338	9.0000e-005	0.0354	2.6900e-003	0.0381	0.0171	2.4700e-003	0.0196	0.0000	7.8550	7.8550	2.5400e-003	0.0000	7.9185

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3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.1000e-004	7.0000e-005	9.1000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2570	0.2570	1.0000e-005	1.0000e-005	0.2593
Total	1.1000e-004	7.0000e-005	9.1000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2570	0.2570	1.0000e-005	1.0000e-005	0.2593

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0354	0.0000	0.0354	0.0171	0.0000	0.0171	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0435	0.0505	9.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	7.8550	7.8550	2.5400e-003	0.0000	7.9185
Total	2.1900e-003	0.0435	0.0505	9.0000e-005	0.0354	2.8000e-004	0.0357	0.0171	2.8000e-004	0.0174	0.0000	7.8550	7.8550	2.5400e-003	0.0000	7.9185

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3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.1000e-004	7.0000e-005	9.1000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2570	0.2570	1.0000e-005	1.0000e-005	0.2593
Total	1.1000e-004	7.0000e-005	9.1000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2570	0.2570	1.0000e-005	1.0000e-005	0.2593

3.4 Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.5000e-004	6.0600e-003	4.8600e-003	1.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	0.5566	0.5566	1.8000e-004	0.0000	0.5611
Total	6.5000e-004	6.0600e-003	4.8600e-003	1.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	0.5566	0.5566	1.8000e-004	0.0000	0.5611

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3.4 Trenching - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.7000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0482	0.0482	0.0000	0.0000	0.0486
Total	2.0000e-005	1.0000e-005	1.7000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0482	0.0482	0.0000	0.0000	0.0486

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	1.5000e-004	3.5300e-003	4.7700e-003	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5566	0.5566	1.8000e-004	0.0000	0.5611
Total	1.5000e-004	3.5300e-003	4.7700e-003	1.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5566	0.5566	1.8000e-004	0.0000	0.5611

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3.4 Trenching - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.7000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0482	0.0482	0.0000	0.0000	0.0486
Total	2.0000e-005	1.0000e-005	1.7000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0482	0.0482	0.0000	0.0000	0.0486

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0201	0.1630	0.2280	3.4000e-004		6.5600e-003	6.5600e-003		6.2300e-003	6.2300e-003	0.0000	27.9237	27.9237	7.2200e-003	0.0000	28.1041
Total	0.0201	0.1630	0.2280	3.4000e-004		6.5600e-003	6.5600e-003		6.2300e-003	6.2300e-003	0.0000	27.9237	27.9237	7.2200e-003	0.0000	28.1041

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3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2000e-004	0.0160	5.6400e-003	7.0000e-005	2.3900e-003	9.0000e-005	2.4800e-003	6.9000e-004	9.0000e-005	7.8000e-004	0.0000	7.2234	7.2234	2.2000e-004	1.0500e-003	7.5408
Worker	2.1900e-003	1.5200e-003	0.0185	6.0000e-005	6.5000e-003	4.0000e-005	6.5300e-003	1.7300e-003	3.0000e-005	1.7600e-003	0.0000	5.2043	5.2043	1.5000e-004	1.4000e-004	5.2508
Total	2.6100e-003	0.0175	0.0242	1.3000e-004	8.8900e-003	1.3000e-004	9.0100e-003	2.4200e-003	1.2000e-004	2.5400e-003	0.0000	12.4277	12.4277	3.7000e-004	1.1900e-003	12.7916

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	0.0102	0.1998	0.2345	3.4000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	27.9236	27.9236	7.2200e-003	0.0000	28.1040
Total	0.0102	0.1998	0.2345	3.4000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	27.9236	27.9236	7.2200e-003	0.0000	28.1040

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3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2000e-004	0.0160	5.6400e-003	7.0000e-005	2.3900e-003	9.0000e-005	2.4800e-003	6.9000e-004	9.0000e-005	7.8000e-004	0.0000	7.2234	7.2234	2.2000e-004	1.0500e-003	7.5408
Worker	2.1900e-003	1.5200e-003	0.0185	6.0000e-005	6.5000e-003	4.0000e-005	6.5300e-003	1.7300e-003	3.0000e-005	1.7600e-003	0.0000	5.2043	5.2043	1.5000e-004	1.4000e-004	5.2508
Total	2.6100e-003	0.0175	0.0242	1.3000e-004	8.8900e-003	1.3000e-004	9.0100e-003	2.4200e-003	1.2000e-004	2.5400e-003	0.0000	12.4277	12.4277	3.7000e-004	1.1900e-003	12.7916

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.2500e-003	0.0221	0.0317	5.0000e-005		1.1100e-003	1.1100e-003		1.0200e-003	1.0200e-003	0.0000	4.3464	4.3464	1.4100e-003	0.0000	4.3816
Paving	1.0300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.2800e-003	0.0221	0.0317	5.0000e-005		1.1100e-003	1.1100e-003		1.0200e-003	1.0200e-003	0.0000	4.3464	4.3464	1.4100e-003	0.0000	4.3816

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3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.1000e-004	7.0000e-005	9.1000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2570	0.2570	1.0000e-005	1.0000e-005	0.2593
Total	1.1000e-004	7.0000e-005	9.1000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2570	0.2570	1.0000e-005	1.0000e-005	0.2593

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	1.2200e-003	0.0245	0.0376	5.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	4.3464	4.3464	1.4100e-003	0.0000	4.3816
Paving	1.0300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.2500e-003	0.0245	0.0376	5.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	4.3464	4.3464	1.4100e-003	0.0000	4.3816

Borrego Springs Dollar General Store - San Diego County, Annual

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

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.1000e-004	7.0000e-005	9.1000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2570	0.2570	1.0000e-005	1.0000e-005	0.2593
Total	1.1000e-004	7.0000e-005	9.1000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2570	0.2570	1.0000e-005	1.0000e-005	0.2593

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1556					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	0.1556	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785

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

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.6000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1285	0.1285	0.0000	0.0000	0.1297
Total	5.0000e-005	4.0000e-005	4.6000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1285	0.1285	0.0000	0.0000	0.1297

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	0.1556					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-004	6.7800e-003	9.1600e-003	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	0.1559	6.7800e-003	9.1600e-003	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785

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

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.6000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1285	0.1285	0.0000	0.0000	0.1297
Total	5.0000e-005	4.0000e-005	4.6000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1285	0.1285	0.0000	0.0000	0.1297

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2589	0.2402	2.0421	3.7900e-003	0.4097	3.1100e-003	0.4129	0.1094	2.9000e-003	0.1123	0.0000	358.7936	358.7936	0.0305	0.0185	365.0565
Unmitigated	0.2589	0.2402	2.0421	3.7900e-003	0.4097	3.1100e-003	0.4129	0.1094	2.9000e-003	0.1123	0.0000	358.7936	358.7936	0.0305	0.0185	365.0565

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Free-Standing Discount store	658.69	877.42	746.60	1,095,374	1,095,374
Parking Lot	0.00	0.00	0.00		
Total	658.69	877.42	746.60	1,095,374	1,095,374

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
Free-Standing Discount store	9.50	7.30	7.30	12.20	68.80	19.00	47.5	35.5	17
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Free-Standing Discount store	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751
Parking Lot	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751

5.0 Energy Detail

Borrego Springs Dollar General Store - San Diego County, Annual

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	40.0478	40.0478	2.4500e-003	3.0000e-004	40.1974
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	40.0478	40.0478	2.4500e-003	3.0000e-004	40.1974
NaturalGas Mitigated	1.5000e-004	1.3500e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4690	1.4690	3.0000e-005	3.0000e-005	1.4777
NaturalGas Unmitigated	1.5000e-004	1.3500e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4690	1.4690	3.0000e-005	3.0000e-005	1.4777

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Free-Standing Discount store	27528	1.5000e-004	1.3500e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4690	1.4690	3.0000e-005	3.0000e-005	1.4777
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.5000e-004	1.3500e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4690	1.4690	3.0000e-005	3.0000e-005	1.4777

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					
Free-Standing Discount store	27528	1.5000e-004	1.3500e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4690	1.4690	3.0000e-005	3.0000e-005	1.4777
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.5000e-004	1.3500e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4690	1.4690	3.0000e-005	3.0000e-005	1.4777

Borrego Springs Dollar General Store - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Free-Standing Discount store	151528	37.1139	2.2700e-003	2.7000e-004	37.2525
Parking Lot	11978.8	2.9340	1.8000e-004	2.0000e-005	2.9449
Total		40.0478	2.4500e-003	2.9000e-004	40.1974

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Free-Standing Discount store	151528	37.1139	2.2700e-003	2.7000e-004	37.2525
Parking Lot	11978.8	2.9340	1.8000e-004	2.0000e-005	2.9449
Total		40.0478	2.4500e-003	2.9000e-004	40.1974

6.0 Area Detail

Borrego Springs Dollar General Store - San Diego County, Annual

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0662	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.9000e-004
Unmitigated	0.0662	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.9000e-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	0.0156					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0506					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.9000e-004
Total	0.0662	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.9000e-004

Borrego Springs Dollar General Store - San Diego County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0156					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0506					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.9000e-004
Total	0.0662	0.0000	4.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.3000e-004	8.3000e-004	0.0000	0.0000	8.9000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.7526	0.0302	7.4000e-004	5.7281
Unmitigated	4.7526	0.0302	7.4000e-004	5.7281

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Free-Standing Discount store	0.918499 / 0.562951	4.7526	0.0302	7.4000e-004	5.7281
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		4.7526	0.0302	7.4000e-004	5.7281

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Free-Standing Discount store	0.918499 / 0.562951	4.7526	0.0302	7.4000e-004	5.7281
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		4.7526	0.0302	7.4000e-004	5.7281

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.8255	0.6398	0.0000	26.8197
Unmitigated	10.8255	0.6398	0.0000	26.8197

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Free-Standing Discount store	53.33	10.8255	0.6398	0.0000	26.8197
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		10.8255	0.6398	0.0000	26.8197

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Free-Standing Discount store	53.33	10.8255	0.6398	0.0000	26.8197
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		10.8255	0.6398	0.0000	26.8197

9.0 Operational Offroad

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

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

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

AERSCREEN 11126 / AERMOD 1206
05/18/22

15:45:28

TITLE: Borrego Dollar General Unmitigated

-
***** AREA PARAMETERS

-

SOURCE EMISSION RATE: 0.814E-03 g/s 0.646E-02 lb/hr

AREA EMISSION RATE: 0.166E-06 g/(s-m2) 0.132E-05
lb/(hr-m2)
AREA HEIGHT: 3.00 meters 9.84 feet
AREA SOURCE LONG SIDE: 69.98 meters 229.59 feet
AREA SOURCE SHORT SIDE: 69.98 meters 229.59 feet
INITIAL VERTICAL DIMENSION: 1.00 meters 3.28 feet
RURAL OR URBAN: RURAL

FLAGPOLE RECEPTOR HEIGHT: 1.50 meters 4.92 feet

INITIAL PROBE DISTANCE = 5000. meters 16404. feet

-
***** BUILDING DOWNWASH PARAMETERS

-

BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES

-

***** FLOW SECTOR ANALYSIS

25 meter receptor spacing: 1. meters - 5000. meters

-

MAXIMUM IMPACT RECEPTOR

Zo SECTOR	SURFACE ROUGHNESS	1-HR CONC (ug/m3)	RADIAL (deg)	DIST (m)	TEMPORAL PERIOD
--------------	----------------------	----------------------	-----------------	-------------	--------------------

1*	0.300	6.694	45	50.0	SPR
----	-------	-------	----	------	-----

* = worst case diagonal

-

***** MAKEMET METEOROLOGY PARAMETERS

-

MIN/MAX TEMPERATURE: 250.0 / 310.0 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Desert Shrubland

DOMINANT CLIMATE TYPE: Dry Conditions

DOMINANT SEASON: Spring

ALBEDO: 0.30

BOWEN RATIO: 5.00

ROUGHNESS LENGTH: 0.300 (meters)

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR MO DY JDY HR

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10 01 28 28 01

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF
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WS

-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-0.49	0.029	-9.000	0.020	-999.	11.	4.5	0.300	5.00	0.30		

0.50

HT	REF	TA	HT
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- - - - -

10.0	310.0	2.0	
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METEOROLOGY CONDITIONS USED TO PREDICT AMBIENT BOUNDARY IMPACT

YR MO DY JDY HR

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10 01 07 28 01

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF
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WS

-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-0.19	0.029	-9.000	0.020	-999.	11.	9.2	0.300	5.00	0.30		

0.50

HT	REF	TA	HT
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10.0	250.0	2.0	
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***** AERSCREEN AUTOMATED DISTANCES

OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE

DIST (m)	MAXIMUM 1-HR CONC (ug/m3)	DIST (m)	MAXIMUM 1-HR CONC (ug/m3)
1.00	3.171	2500.00	0.5243
25.00	4.902	2525.00	0.5180
50.01	6.694	2550.00	0.5118
75.00	6.389	2575.00	0.5057
100.00	5.852	2600.00	0.4998
125.00	5.404	2625.00	0.4940
150.01	5.000	2650.00	0.4883
174.99	4.627	2675.00	0.4827
200.00	4.282	2700.00	0.4773
225.00	3.967	2725.00	0.4719
250.00	3.712	2749.99	0.4666
270.00	3.529	2775.00	0.4615
274.99	3.498	2800.00	0.4564
300.00	3.347	2824.99	0.4514
325.00	3.202	2849.99	0.4466
350.00	3.065	2875.00	0.4418
353.00	3.049	2900.00	0.4371
375.01	2.935	2925.00	0.4325
400.00	2.816	2950.00	0.4280
425.00	2.705	2975.00	0.4235
450.00	2.606	3000.00	0.4191
475.01	2.513	3025.00	0.4149
500.00	2.428	3050.00	0.4106
525.00	2.349	3075.00	0.4065
549.99	2.275	3100.00	0.4024
575.01	2.206	3125.00	0.3984
599.99	2.140	3150.00	0.3945
625.00	2.076	3174.99	0.3907
650.00	2.016	3200.00	0.3869
675.00	1.959	3225.00	0.3831
699.99	1.903	3250.00	0.3795
725.00	1.850	3275.00	0.3758
750.00	1.799	3300.00	0.3723
775.00	1.751	3325.00	0.3688
800.01	1.705	3350.00	0.3654
825.00	1.660	3375.00	0.3620

850.00	1.617	3400.00	0.3587
875.00	1.576	3425.00	0.3554
900.01	1.536	3450.00	0.3522
924.99	1.498	3475.00	0.3490
950.00	1.462	3500.00	0.3459
975.00	1.428	3525.00	0.3428
1000.00	1.394	3550.00	0.3398
1025.00	1.361	3575.00	0.3368
1050.00	1.330	3600.00	0.3338
1075.00	1.300	3625.00	0.3310
1100.00	1.271	3650.00	0.3281
1125.00	1.243	3674.99	0.3253
1150.00	1.216	3700.00	0.3225
1175.00	1.190	3724.99	0.3198
1200.00	1.166	3750.00	0.3171
1225.01	1.142	3775.00	0.3145
1250.01	1.118	3800.00	0.3119
1275.00	1.095	3825.00	0.3093
1300.00	1.074	3849.99	0.3068
1325.00	1.053	3875.00	0.3043
1350.00	1.032	3900.00	0.3018
1375.00	1.012	3924.99	0.2994
1400.00	0.9931	3950.00	0.2970
1425.00	0.9746	3975.00	0.2946
1450.00	0.9566	4000.00	0.2923
1475.00	0.9392	4024.99	0.2900
1500.00	0.9225	4050.00	0.2877
1525.00	0.9063	4075.00	0.2855
1550.00	0.8904	4100.00	0.2833
1575.00	0.8749	4125.00	0.2811
1600.00	0.8600	4150.00	0.2790
1625.00	0.8454	4175.00	0.2769
1650.00	0.8314	4200.00	0.2748
1675.01	0.8176	4225.00	0.2727
1700.00	0.8042	4250.00	0.2707
1725.00	0.7911	4275.00	0.2687
1750.00	0.7784	4300.00	0.2667
1775.00	0.7662	4325.00	0.2647
1800.00	0.7544	4350.00	0.2628
1825.00	0.7429	4375.00	0.2609
1850.00	0.7316	4400.00	0.2590
1875.00	0.7206	4425.00	0.2571
1900.00	0.7280	4450.00	0.2553
1925.00	0.7169	4475.00	0.2535
1950.00	0.7061	4500.00	0.2517
1975.00	0.6956	4525.00	0.2499

2000.00	0.6853	4550.00	0.2482
2025.00	0.6753	4575.00	0.2464
2050.00	0.6655	4600.00	0.2447
2075.00	0.6560	4625.00	0.2430
2100.00	0.6467	4650.00	0.2414
2125.00	0.6377	4675.00	0.2397
2150.00	0.6288	4700.00	0.2381
2175.00	0.6202	4725.00	0.2365
2200.00	0.6118	4750.00	0.2349
2225.00	0.6036	4774.99	0.2333
2250.00	0.5955	4800.00	0.2318
2275.00	0.5876	4825.00	0.2302
2300.00	0.5800	4850.00	0.2287
2325.00	0.5725	4875.00	0.2272
2350.00	0.5651	4900.00	0.2257
2375.00	0.5579	4925.00	0.2243
2400.00	0.5509	4950.00	0.2228
2425.00	0.5440	4975.00	0.2214
2450.00	0.5373	5000.00	0.2200
2475.00	0.5307		

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***** AERSCREEN MAXIMUM IMPACT SUMMARY

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3-hour, 8-hour, and 24-hour scaled
concentrations are equal to the 1-hour concentration as referenced in
SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY
IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
under Screening Guidance

	MAXIMUM	SCALED	SCALED	SCALED	
SCALED					
	1-HOUR	3-HOUR	8-HOUR	24-HOUR	
ANNUAL					
CALCULATION	CONC	CONC	CONC	CONC	CONC
PROCEDURE	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	

(ug/m3)

FLAT TERRAIN	6.700	6.700	6.700	6.700	N/A
DISTANCE FROM SOURCE		57.01 meters			
IMPACT AT THE AMBIENT BOUNDARY	3.171	3.171	3.171	3.171	N/A
DISTANCE FROM SOURCE		1.00 meters			

AERSCREEN 11126 / AERMOD 1206
05/18/22

15:41:54

TITLE: BORREGO DOLLAR GENERAL MITIGATED

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***** AREA PARAMETERS

-
SOURCE EMISSION RATE: 0.186E-03 g/s 0.148E-02 lb/hr

AREA EMISSION RATE: 0.380E-07 g/(s-m2) 0.301E-06
lb/(hr-m2)
AREA HEIGHT: 3.00 meters 9.84 feet
AREA SOURCE LONG SIDE: 69.98 meters 229.59 feet
AREA SOURCE SHORT SIDE: 69.98 meters 229.59 feet
INITIAL VERTICAL DIMENSION: 1.00 meters 3.28 feet
RURAL OR URBAN: RURAL

FLAGPOLE RECEPTOR HEIGHT: 1.50 meters 4.92 feet

INITIAL PROBE DISTANCE = 5000. meters 16404. feet

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***** BUILDING DOWNWASH PARAMETERS

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BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES

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***** FLOW SECTOR ANALYSIS

25 meter receptor spacing: 1. meters - 5000. meters

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MAXIMUM IMPACT RECEPTOR

Zo SECTOR	SURFACE ROUGHNESS	1-HR CONC (ug/m3)	RADIAL (deg)	DIST (m)	TEMPORAL PERIOD
1*	0.300	1.530	45	50.0	SPR

* = worst case diagonal

-
***** MAKEMET METEOROLOGY PARAMETERS

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MIN/MAX TEMPERATURE: 250.0 / 310.0 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Desert Shrubland

DOMINANT CLIMATE TYPE: Dry Conditions

DOMINANT SEASON: Spring

ALBEDO: 0.30

BOWEN RATIO: 5.00

ROUGHNESS LENGTH: 0.300 (meters)

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR MO DY JDY HR

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10 01 28 28 01

	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF
WS												
-	-0.49	0.029	-9.000	0.020	-999.	11.	4.5	0.300	5.00	0.30		
0.50												

	HT	REF	TA	HT
-	10.0	310.0		2.0

METEOROLOGY CONDITIONS USED TO PREDICT AMBIENT BOUNDARY IMPACT

YR MO DY JDY HR

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10 01 07 28 01

	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF
WS												
-	-0.19	0.029	-9.000	0.020	-999.	11.	9.2	0.300	5.00	0.30		
0.50												

	HT	REF	TA	HT
-	10.0	250.0		2.0

***** AERSCREEN AUTOMATED DISTANCES

OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE

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DIST (m)	MAXIMUM 1-HR CONC (ug/m3)	DIST (m)	MAXIMUM 1-HR CONC (ug/m3)
1.00	0.7247	2500.00	0.1198
25.00	1.120	2525.00	0.1184
50.01	1.530	2550.00	0.1170
75.00	1.460	2575.00	0.1156
100.00	1.337	2600.00	0.1142
125.00	1.235	2625.00	0.1129
150.01	1.143	2650.00	0.1116
174.99	1.057	2675.00	0.1103
200.00	0.9786	2700.00	0.1091
225.00	0.9065	2725.00	0.1078
250.00	0.8482	2750.00	0.1066
270.00	0.8064	2775.00	0.1055
274.99	0.7994	2800.00	0.1043
300.00	0.7648	2824.99	0.1032
325.00	0.7318	2850.00	0.1020
350.00	0.7004	2875.00	0.1010
353.00	0.6968	2900.00	0.9988E-01
375.01	0.6707	2925.00	0.9883E-01
400.00	0.6435	2950.00	0.9780E-01
425.00	0.6181	2975.00	0.9678E-01
450.00	0.5955	3000.00	0.9578E-01
475.01	0.5744	3025.00	0.9480E-01
500.00	0.5549	3050.00	0.9384E-01
525.00	0.5367	3074.99	0.9289E-01
549.99	0.5199	3100.00	0.9197E-01
575.01	0.5041	3125.00	0.9105E-01
599.99	0.4891	3150.00	0.9015E-01
625.00	0.4745	3174.99	0.8927E-01
650.00	0.4607	3199.99	0.8840E-01
675.00	0.4476	3225.00	0.8755E-01
699.99	0.4350	3250.00	0.8671E-01
725.00	0.4228	3274.99	0.8589E-01
750.00	0.4111	3300.00	0.8508E-01
775.00	0.4001	3325.00	0.8428E-01
800.01	0.3896	3350.00	0.8349E-01

825.00	0.3794	3375.00	0.8272E-01
850.00	0.3695	3400.00	0.8196E-01
875.00	0.3600	3425.00	0.8121E-01
900.01	0.3510	3450.00	0.8048E-01
924.99	0.3424	3475.00	0.7975E-01
950.00	0.3341	3500.00	0.7904E-01
975.00	0.3262	3525.00	0.7834E-01
1000.00	0.3185	3550.00	0.7764E-01
1025.00	0.3111	3575.00	0.7696E-01
1050.00	0.3039	3600.00	0.7629E-01
1075.00	0.2970	3625.00	0.7563E-01
1100.00	0.2904	3650.00	0.7498E-01
1125.00	0.2840	3674.99	0.7434E-01
1150.00	0.2779	3700.00	0.7371E-01
1175.00	0.2720	3724.99	0.7308E-01
1200.00	0.2664	3750.00	0.7247E-01
1225.01	0.2609	3775.00	0.7187E-01
1250.01	0.2555	3800.00	0.7127E-01
1275.00	0.2503	3825.00	0.7068E-01
1300.00	0.2454	3849.99	0.7010E-01
1325.00	0.2405	3875.00	0.6953E-01
1350.00	0.2359	3900.00	0.6897E-01
1375.00	0.2313	3925.00	0.6842E-01
1400.00	0.2269	3950.00	0.6787E-01
1425.00	0.2227	3975.00	0.6733E-01
1450.00	0.2186	4000.00	0.6680E-01
1475.00	0.2146	4024.99	0.6627E-01
1500.00	0.2108	4050.00	0.6575E-01
1525.00	0.2071	4075.00	0.6524E-01
1550.00	0.2035	4100.00	0.6474E-01
1575.00	0.1999	4125.00	0.6424E-01
1600.00	0.1965	4149.99	0.6375E-01
1625.00	0.1932	4175.00	0.6327E-01
1650.00	0.1900	4200.00	0.6279E-01
1675.01	0.1868	4225.00	0.6232E-01
1700.00	0.1838	4250.00	0.6185E-01
1725.00	0.1808	4275.00	0.6139E-01
1750.00	0.1779	4300.00	0.6094E-01
1775.00	0.1751	4325.00	0.6049E-01
1800.00	0.1724	4349.99	0.6005E-01
1825.00	0.1698	4375.00	0.5961E-01
1850.00	0.1672	4400.00	0.5918E-01
1875.00	0.1647	4425.00	0.5876E-01
1900.00	0.1664	4450.00	0.5834E-01
1925.00	0.1638	4475.00	0.5792E-01
1950.00	0.1614	4500.00	0.5751E-01

1975.00	0.1590	4525.00	0.5711E-01
2000.00	0.1566	4550.00	0.5671E-01
2025.00	0.1543	4575.00	0.5631E-01
2050.00	0.1521	4599.99	0.5592E-01
2075.00	0.1499	4625.00	0.5554E-01
2100.00	0.1478	4650.00	0.5516E-01
2125.00	0.1457	4675.00	0.5478E-01
2150.00	0.1437	4700.00	0.5441E-01
2175.00	0.1417	4725.00	0.5404E-01
2200.00	0.1398	4750.00	0.5368E-01
2225.00	0.1379	4774.99	0.5332E-01
2250.00	0.1361	4800.00	0.5296E-01
2275.00	0.1343	4825.00	0.5261E-01
2300.00	0.1325	4850.00	0.5226E-01
2325.00	0.1308	4875.00	0.5192E-01
2350.00	0.1291	4900.00	0.5158E-01
2375.00	0.1275	4924.99	0.5125E-01
2400.00	0.1259	4950.00	0.5092E-01
2425.00	0.1243	4975.00	0.5059E-01
2450.00	0.1228	4999.99	0.5026E-01
2475.00	0.1213		

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***** AERSCREEN MAXIMUM IMPACT SUMMARY

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3-hour, 8-hour, and 24-hour scaled
concentrations are equal to the 1-hour concentration as referenced in
SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY
IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
under Screening Guidance

	MAXIMUM	SCALED	SCALED	SCALED	
SCALED	1-HOUR	3-HOUR	8-HOUR	24-HOUR	
ANNUAL					
CALCULATION	CONC	CONC	CONC	CONC	CONC

PROCEDURE (ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	(ug/m3)	
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FLAT TERRAIN	1.531	1.531	1.531	1.531	N/A
DISTANCE FROM SOURCE	57.01 meters				
IMPACT AT THE AMBIENT BOUNDARY	0.7247	0.7247	0.7247	0.7247	N/A
DISTANCE FROM SOURCE	1.00 meters				

Air Quality Health Risk Calculations (Worst-Case) Borrego Dollar General Unmitigated						
From CalEE Annual Output	Emission per day (Ton/Total Construction Duration)	0.01149				
	Construction Start	6/1/2023				
	Construction Complete	10/27/2023				
	Days	148				
	Construction Emission per day (lb/day)	0.15527027				
	Annual Duration (Days)	365				
Used as an input to AERSCREEN	Annualized Emission Rate (Grams/Second)	0.000814091				
	Project Site Size (Acres)	1.21				
	Project Site Size (meters^2)	4896.696271				
	Length of Smalles Side (meters)	69.97639796				
From AERSCREEN Hourly * 0.08 to convert to annual	Concentration Hourly From AERSCREEN (Ug/M^3)	1.66E-07				
	Concentration Annual (Ug/M^3)	0.53552				
Duration	Days	148	Days to years			
			0.405479452			
Age (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70
Cair (annual) - From F15	0.53552	0.53552	0.53552	0.53552	0.53552	0.53552
Breathing Rate per agegroup BR/BW (Page 5-25)	361	1090	861	745	335	290
A (Default is 1)	1	1	1	1	1	1
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96
10^-6 Microgram to Milligram / liters to m3	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001
Dose-inh	0.00018559	0.00056037	0.00044264	0.00038300	0.00017222	0.00014909
Construction Days	148	0.405479452				
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1
Age Sensitivity Factor	10	10	3	3	1	1
ED	0.25	0.405479452	0.405479452	0.405479452	0.405479452	0.405479452
AT	70	70	70	70	70	70
FAH	0.85	0.85	0.72	0.72	0.73	0.73
Risk for Each Age Group	6.19737E-06	3.03498E-05	6.0921E-06	5.27133E-06	8.01084E-07	6.93476E-07
Risk per million Exposed	6.197374053	30.349801	6.092104253	5.271332948	0.801084062	0.693475755
Cancer Risk Per Million 9-years	42.64					
Cancer Risk Per Million 30-years	42.62					
Cancer Risk Per Million 70-years	42.51					

Air Quality Health Risk Calculations (Worst-Case) Borrego Dollar General Project T3 with DPF (Mit)						
From CalEE Annual Output	Emission per day (Ton/Total Construction Duration)	0.00262				
	Construction Start	6/1/2023				
	Construction Complete	10/27/2023				
	Days	148				
	Construction Emission per day (lb/day)	0.035405405				
	Annual Duration (Days)	365				
Used as an input to AERSCREEN	Annualized Emission Rate (Grams/Second)	0.000185633				
	Project Site Size (Acres)	1.21				
	Project Site Size (meters^2)	4896.696271				
	Length of Smalles Side (meters)	69.97639796				
From AERSCREEN Hourly * 0.08 to convert to annual	Concentration Hourly From AERSCREEN (Ug/M^3)	1.53E+00				
	Concentration Annual (Ug/M^3)	0.1224				
Duration	Days 148	Days to years 0.405479452				
Age (Years)	3rd Trimester (0.25)	0-2	2-9	2-16	16-30	16-70
Cair (annual) - From F15	0.1224	0.1224	0.1224	0.1224	0.1224	0.1224
Breathing Rate per agegroup BR/BW (Page 5-25)	361	1090	861	745	335	290
A (Default is 1)	1	1	1	1	1	1
Exposure Frequency = EF (days/365days)	0.96	0.96	0.96	0.96	0.96	0.96
10^-6 Microgram to Milligram / liters to m3	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001
Dose-inh	0.00004242	0.00012808	0.00010117	0.00008754	0.00003936	0.00003408
Construction Days	148	0.405479452				
potency factor for Diesel	1.1	1.1	1.1	1.1	1.1	1.1
Age Sensitivity Factor	10	10	3	3	1	1
ED	0.25	0.405479452	0.405479452	0.405479452	0.405479452	0.405479452
AT	70	70	70	70	70	70
FAH	0.85	0.85	0.72	0.72	0.73	0.73
Risk for Each Age Group	1.41649E-06	6.93684E-06	1.39243E-06	1.20483E-06	1.83098E-07	1.58503E-07
Risk per million Exposed	1.416489737	6.936838292	1.392428967	1.204831104	0.18309809	0.158502824
Cancer Risk Per Million 9-years	9.75					
Cancer Risk Per Million 30-years	9.74					
Cancer Risk Per Million 70-years	9.72					