

**BRIGGS ROAD AT HIGHWAY 74  
GAS STATION AND COMMERCIAL CENTER  
ENERGY CONSERVATION ANALYSIS  
City of Menifee, California**

**Prepared for:**

Mr. Danny Long  
THE RANCON GROUP  
41391 Kalmia Street, Suite 200

**Prepared by:**

RK ENGINEERING GROUP, INC.  
4000 Westerly Place, Suite 280  
Newport Beach, CA 92660

**Bryan Estrada, AICP, PTP**

**April 25, 2019**

# Table of Contents

Section	Page
<b>1.0 Introduction</b> .....	<b>1-1</b>
1.1 Purpose of Report and Study Objectives	1-1
1.2 Site Location	1-1
1.3 Project Description	1-2
1.4 Utility Providers	1-2
1.5 Summary of CEQA Impacts	1-3
1.6 Recommended Mitigation Measures	1-3
1.7 Recommended Project Design Features	1-4
<b>2.0 Energy Setting</b> .....	<b>2-1</b>
2.1 Background Information	2-1
2.2 U.S Energy Statistics	2-2
2.3 California Energy Statistics	2-3
2.4 Southern California Edison	2-5
2.5 Southern California Gas Company	2-6
<b>3.0 Regulatory Setting</b> .....	<b>3-1</b>
3.1 Federal Regulations	3-1
3.2 State of California Regulations	3-3
<b>4.0 Project Energy Consumption</b> .....	<b>4-1</b>
4.1 Energy Consumption Methodology	4-1
4.2 Electricity Consumption	4-1
4.3 Natural Gas Consumption	4-2
4.4 Petroleum Consumption	4-3
4.4.1 Construction	4-3
4.4.2 Operation	4-6
<b>5.0 Energy Impacts</b> .....	<b>5-1</b>
5.1 Energy Impact Criteria	5-1
5.2 Energy Impact – 1	5-1
5.3 Energy Impact – 2	5-2
<b>6.0 References</b> .....	<b>6-1</b>

## List of Attachments

### Tables

---

Land Use Summary .....	1
Utility Providers.....	2
CEQA Energy Impact Criteria.....	3
Btu Conversion Factors .....	4
U.S. Primary Energy Consumption (Year 2017) .....	5
U.S. Electricity Generation, by Source (Year 2017) .....	6
California Energy Consumption by Source (Year 2016) .....	7
California Electric Generation in Gigawatt Hours (Year 2017).....	8
Southern California Edison Electricity Generation (Year 2017).....	9
Southern California Gas Company Natural Gas Consumption, by Sector (Year 2017)..	10
U.S. Energy Policy Legislative Acts .....	11
California Energy Policy Legislative Acts and Regulations.....	12
Project Electricity Consumption .....	13
Project Natural Gas Consumption.....	14
Construction Off-Road Equipment Energy Consumption.....	15
Construction On-Road Trips Energy Consumption .....	16
Operational Trips Energy Consumption – Annual.....	17
Total Project Energy Consumption – Annual.....	18

### Appendices

---

CalEEMod Annual Emissions Report .....	A
EMFAC2014 Vehicle Consumption Data.....	B

# **1.0 Introduction**

---

## **1.1 Purpose of Report and Study Objectives**

The purpose of this energy conservation analysis is to review the energy implications of the proposed Briggs Road at SR-74 Gas Station and Commercial Center (project) and provide recommendations to reduce wasteful, inefficient and unnecessary consumption of energy during construction and operation. This analysis has been prepared within the context of the California Environmental Quality Act (CEQA, California Public Resources Code Sections 21000, et seq.).

CEQA Guidelines, Appendix F, Energy Conservation, describes the framework within which energy conservation should be analyzed. The goal of conserving energy implies the wise and efficient use of energy through decreasing overall per capita energy consumption, decreasing reliance on fossil fuels (such as coal, natural gas and oil), and increasing reliance on renewable energy sources. This analysis considers energy impacts to include:

1. The project's energy requirements and its energy use efficiencies by amount and fuel type for each stage of the project including construction and operation.
2. The effects of the project on local and regional energy supplies and on requirements for additional capacity.
3. The effects of the project on peak and base period demands for electricity and other forms of energy.
4. The degree to which the project complies with existing energy standards.
5. The effects of the project on energy resources.

## **1.2 Site Location**

The project site is located at the northwest corner of Briggs Road and Highway 74 in the City of Menifee, as indicated in Exhibit A. The project site is approximately 5.04 gross acres in size and is currently vacant. The project site is located within the Menifee North Specific Plan area and the land use designation for the site is Commercial Retail (CR).

The project location map is provided in Exhibit A.

### 1.3 Project Description

The project will consist of constructing and operating a 16-fueling position gas station with a 4,967 square foot convenience market and a 3,000 square foot car wash. The project will also include one (1) 3,268 square foot free standing fast food restaurant with drive-through and one (1) attached 1,102 square foot fast food restaurant with drive-through located within the convenience market building. An illuminated parking lot with approximately 75 parking spaces will be provided on-site. The project is consistent with the City's General Plan and Zoning map.

Construction of the project is estimated to last approximately 14 months and consist of site preparation, grading, building construction, paving, and architectural coating. The project is expected to export approximately 5,200 cubic yards of soil during the grading phase.

The site plan used in this analysis was provided by THE RANCON GROUP and is illustrated in Exhibit B.

The proposed project land uses are shown in Table 1.

**Table 1**  
**Land Use Summary**

Land Use	Quantity	Metric <sup>1</sup>
Gasoline/Service Station	16	VFP
Convenience Market	4,967	SF
Car Wash	3,000	SF
Fast Food Restaurant with Drive-Through (Parcel 1)	3,268	SF
Fast Food Restaurant with Drive-Through (Parcel 3)	1,102	SF
Parking Lot	75	Spaces

<sup>1</sup> VFP = Vehicle Fueling Positions  
SF = Square Feet

### 1.4 Utility Providers

The project will be served by the following utility providers, as shown in Table 2.

**Table 2  
Utility Providers**

Utility	Provider
Electricity	Southern California Edison
Natural Gas	Southern California Gas Company
Water	Eastern Municipal Water District
Sewer	Eastern Municipal Water District
Telephone	Verizon
Cable	Time Warner Cable

**1.5 Summary of CEQA Impacts**

Table 3 provides a summary of the project’s impact to Energy resources, per the impact criteria described in CEQA Guidelines, Appendix G.

**Table 3  
CEQA Energy Impact Criteria**

Energy Impact Criteria	Potentially Significant	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<i>Would the project:</i>				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?			X	
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			X	

**1.6 Recommended Mitigation Measures**

The project is expected to result in less than less than significant energy impacts; no mitigation is required.

## 1.7 Recommended Project Design Features

The following recommended project design features include standard rules and requirements, best practices and recognized design features for reducing energy demand. Design features are assumed to be part of the conditions of approval for the project.

The following project energy design features are recommended:

### **Construction Design Features:**

- DF-1.** All construction equipment shall be maintained in proper tune.
- DF-2.** All construction vehicles shall be prohibited from excessive idling. Excessive idling is defined as five (5) minutes or longer.
- DF-3.** Carpooling shall be encouraged for construction workers
- DF-4.** Establish an electricity supply to the construction site and use electric powered equipment instead of diesel-powered equipment or generators, where feasible.

### **Operational Design Features:**

- DF-5.** Comply with the mandatory requirements of California's Building Energy Efficiency Standards and Green Building (CALGreen) Standards, including mandatory installation of electric vehicle service equipment (EVSE).
- DF-6.** Implement water conservation strategies, including low flow fixtures and toilets, water efficient irrigation systems, drought tolerant/native landscaping, and reduce the amount of turf.
- DF-7.** Use electric landscaping equipment, such as lawn mowers and leaf blowers.

## 2.0 Energy Setting

---

### 2.1 Background Information

There are many different types and sources of energy produced and consumed in the United States. The U.S. Energy Information Administration (EIA) categorizes energy by primary and secondary sources, renewable and nonrenewable sources, and by the different types of fossil fuels.<sup>1</sup>

Primary energy is captured directly from natural resources and includes fossil fuels, nuclear energy, and renewable sources of energy. Electricity is a secondary energy source that results from the transformation of primary energy sources.

A renewable energy source includes solar energy from the sun, geothermal energy from heat inside the earth, wind energy, biomass from plants, and hydropower from flowing water. Nonrenewable energy sources include petroleum products, hydrocarbon gas liquids, natural gas, coal, and nuclear energy.

Fossil fuels are non-renewable resources formed by organic matter over millions of years and include oil, coal and natural gas.

The U.S. EIA defines the five energy consuming sectors within the U.S. as follows:

- **Industrial Sector:** Includes facilities and equipment used for manufacturing, agriculture, mining, and construction.
- **Transportation Sector:** Includes vehicles that transport people or goods, such as cars, trucks, buses, motorcycles, trains, aircraft, boats, barges, and ships.
- **Residential Sector:** Includes homes and apartments.
- **Commercial Sector:** Includes offices, malls, stores, schools, hospitals, hotels, warehouses, restaurants, and places of worship and public assembly.
- **Electric Power Sector:** Consumes primary energy to generate most of the electricity the other four sectors consume.

Energy sources are measured in different physical units: liquid fuels are measured in barrels or gallons, natural gas in cubic feet, coal in short tons, and electricity in kilowatts and kilowatt-hours. In the United States, British thermal units (Btu), a measure of heat energy, is commonly used for comparing different types of energy to each other.

---

<sup>1</sup> U.S. Energy Information Administration (EIA). [https://www.eia.gov/energyexplained/?page=us\\_energy\\_home#tab1](https://www.eia.gov/energyexplained/?page=us_energy_home#tab1)



**Table 4  
Btu Conversion Factors<sup>1</sup>**

<b>Energy source/fuel</b>	<b>Btu Conversion Factor<sup>2</sup></b>
Electricity	1 kilowatthour = 3,412 Btu
Natural gas	1 cubic foot = 1,037 Btu 1 therm = 100,000 Btu
Motor gasoline	1 gallon = 120,429 Btu <sup>3</sup>
Diesel fuel	1 gallon = 137,381 Btu
Heating oil	1 gallon = 138,500 Btu
Propane	1 gallon = 91,333 Btu
Wood	1 cord = 20,000,000 Btu <sup>4</sup>

<sup>1</sup> Source: [https://www.eia.gov/energyexplained/index.php?page=about\\_btu](https://www.eia.gov/energyexplained/index.php?page=about_btu).

<sup>2</sup> Weighted averages for energy sources/fuels by end-use sectors, 2015. Conversion are approximate.

<sup>3</sup> Gasoline sold at retail in the United States, with about 10% ethanol content by volume.

<sup>4</sup> A cord of wood is a volume unit and does not take wood density or moisture content into account. Wood heat content varies significantly with moisture content.

## 2.2 U.S. Energy Statistics

U.S. energy production and consumption data provide context for the project within the broader domestic energy setting. Calendar year 2017 is the most current data published by the U.S. EIA.

Table 5 shows the total U.S. primary energy consumption for Year 2017.

**Table 5  
U.S. Primary Energy Consumption (Year 2017)<sup>1</sup>**

<b>Primary Energy Source</b>	<b>Energy Consumption</b>	
	<b>Btu (in Quadrillions)</b>	<b>Percentage</b>
Total Fossil Fuel Consumption	78.04	79.9%
Petroleum (Excluding Biofuels)	36.17	37.0%
Natural Gas (Excluding Supplemental Gaseous Fuels)	28.03	28.7%
Coal	13.84	14.2%
Total Renewable Energy Consumption	11.17	11.4%
Biomass Energy	5.08	5.2%
Hydroelectric Power	2.77	2.8%
Wind Energy	2.34	2.4%
Solar Energy	0.77	0.8%
Geothermal Energy	0.21	0.2%
Nuclear Electric Power	8.42	8.6%
<b>Total Primary Energy Consumption</b>	<b>97.63</b>	<b>100%</b>

<sup>1</sup> U.S EIA website. <https://www.eia.gov/totalenergy/data/browser/index.php?tbl=T01.03#/?f=A>

Fossil fuels are the main source of energy produced and consumed in the U.S., and in year 2017, the U.S. produced almost 90 percent of the total energy it consumed domestically; with crude oil imports primarily making up the difference.<sup>2</sup> Also notable in year 2017, is that renewable energy production, mainly attributed to wind and solar, reached new record highs.<sup>2</sup>

Electricity is produced from many different energy sources and technologies. In 2017, the generation of electric power consumed approximately 38.1 percent of all energy domestically.<sup>3</sup>

Table 6 shows the amount of electricity generated by primary energy sources in the U.S. for year 2017.

**Table 6**  
**U.S. Electricity Generation, by Source (Year 2017)<sup>1</sup>**

Energy Source	Electricity Generation	
	Thousand Megawatt-hours	Percentage
Natural Gas	1,308,884	32.3%
Coal	1,205,835	29.7%
Petroleum	21,390	0.5%
Nuclear	804,950	19.8%
Hydroelectric (Conventional, less pumped storage)	293,838	7.2%
Solar (Utility-scale and small-scale generation)	77,276	1.9%
Renewable Sources (Excluding hydro and solar)	332,991	8.2%
Other	13,094	0.3%
<b>Total Electricity Generation (2017)</b>	<b>4,058,258</b>	<b>100%</b>

<sup>1</sup> U.S. EIA website. <https://www.eia.gov/totalenergy/data/browser/index.php?tbl=T07.02A#/?f=A>

### 2.3 California Energy Statistics

California produced about 2,431 trillion Btu of total energy in year 2016 and consumed over 7,830 trillion Btu, making it the second highest consumer of energy in the country, behind only Texas. However, due in part to its mild climate and energy efficiency programs, California ranks 48<sup>th</sup> in per capita energy consumption.<sup>4</sup> Overall, California is a net importer of energy, and consumes more energy than it produces. Energy is imported into California in various forms including natural gas, crude oil and electricity.

<sup>2</sup> U.S. Energy Information Administration (EIA). [https://www.eia.gov/energyexplained/index.php?page=us\\_energy\\_home](https://www.eia.gov/energyexplained/index.php?page=us_energy_home)

<sup>3</sup> U.S. Energy Information Administration (EIA). [https://www.eia.gov/energyexplained/?page=us\\_energy\\_home#tab1](https://www.eia.gov/energyexplained/?page=us_energy_home#tab1)

<sup>4</sup> U.S. Energy Information Administration (EIA). <https://www.eia.gov/state/?sid=CA#tabs-1>

Natural Gas is primarily imported via pipelines from Canada, the Rocky Mountains, New Mexico and Texas. Natural gas is the primary source of electricity generated in California.<sup>5</sup>

Crude oil is primarily imported from Alaska, Mexico, Canada, South America and the Middle East. Crude oil is refined at one of the seventeen (17) in-state oil refineries that meet California’s strict clean fuel regulations. Refined petroleum products, including gasoline, are also imported from numerous other domestic and foreign sources that are equipped to meet California’s fuel standards.<sup>5</sup>

Electricity is imported via transmission lines from the Northwest (Alberta, British Columbia, Idaho, Montana, Oregon, South Dakota, Washington, and Wyoming) and Southwest (Arizona, Baja California, Colorado, Mexico, Nevada, New Mexico, Texas, and Utah) regions of the U.S.<sup>5</sup>

Table 7 shows the State of California’s energy consumption estimates for year 2016.

**Table 7  
California Energy Consumption by Source (Year 2016)<sup>1</sup>**

Primary Energy Source	Energy Consumption	
	Btu (in Trillions)	Percentage
Total Fossil Fuel Consumption	5,756.7	73.5%
Coal	32.1	0.4%
Natural Gas	2,248.4	28.7%
Motor Gasoline excl. Ethanol	1,714.4	21.9%
Distillate Fuel Oil	560.4	7.2%
Jet Fuel	672.6	8.6%
Hydrocarbon Gas Liquids (HGL)	57.7	0.7%
Residual Fuel	145.8	1.9%
Other Petroleum	325.3	4.2%
Total Renewable Energy Consumption	1,046.7	13.4%
Hydroelectric Power	267.2	3.4%
Biomass	279.8	3.6%
Solar	267.1	3.4%
Wind	124.7	1.6%
Geothermal	107.9	1.4%
Nuclear Electric Power	197.8	2.5%
Net Electricity Imports and Interstate Flow	829.0	10.6%
<b>Total</b>	<b>7,830.2</b>	<b>100.0%</b>

<sup>1</sup> U.S CIA website. [https://www.eia.gov/state/seds/data.php?incfile=/state/seds/sep\\_sum/html/sum\\_btu\\_totcb.html&sid=CA](https://www.eia.gov/state/seds/data.php?incfile=/state/seds/sep_sum/html/sum_btu_totcb.html&sid=CA)

<sup>5</sup> California Energy Commission. <https://www.energy.ca.gov/almanac/>

Table 8 shows the sources and fuel types for California’s system-wide generation of electricity for year 2017.

**Table 8  
California Electric Generation in Gigawatt Hours (Year 2017)<sup>1</sup>**

Fuel Type	California In-State Generation (GWh) <sup>2</sup>	Percent of California In-State Generation	Northwest Imports (GWh)	Southwest Imports (GWh)	California Energy Mix (GWh)	California Power Mix
Coal	302	0.15%	409	11,364	12,075	4.13%
Large Hydro	36,920	17.89%	4,531	1,536	42,987	14.72%
Natural Gas	89,564	43.40%	46	8,705	98,315	33.67%
Nuclear	17,925	8.69%	0	8,594	26,519	9.08%
Oil	33	0.02%	0	0	33	0.01%
Other (Petroleum Coke/Waste Heat)	409	0.20%	0	0	409	0.14%
Renewables	61,183	29.65%	12,502	10,999	84,684	29.00%
Biomass	5,827	2.82%	1,015	32	6,874	2.35%
Geothermal	11,745	5.69%	23	937	12,705	4.35%
Small Hydro	6,413	3.11%	1,449	5	7,867	2.70%
Solar	24,331	11.79%	0	5,465	29,796	10.20%
Wind	12,867	6.24%	10,015	4,560	27,442	9.40%
Unspecified Sources of Power	N/A	N/A	22,385	4,632	27,017	9.25%
<b>Total</b>	<b>206,336</b>	<b>100.00%</b>	<b>39,873</b>	<b>45,830</b>	<b>292,039</b>	<b>100.00%</b>

<sup>1</sup> California Energy Commission. CEC-1304 Power Plant Owners Reporting Form and SB 1305 Reporting Regulations. [https://www.energy.ca.gov/almanac/electricity\\_data/total\\_system\\_power.html](https://www.energy.ca.gov/almanac/electricity_data/total_system_power.html)

<sup>2</sup> In-state generation is reported generation from units one megawatt and larger.

## 2.4 Southern California Edison

Southern California Edison (SCE) provides electricity service to approximately 180 cities in 15 counties in central, coastal and Southern California; including the project site.<sup>6</sup> According to the California Energy Commission (CEC), SCE consumed approximately 84,291.608168 GWh of electricity in 2017; which is approximately 28.8% of the State’s total electricity usage.<sup>7</sup>

Table 9 shows SCE’s electricity generation by energy source for year 2017.

<sup>6</sup> Southern California Edison. <https://www.sce.com/about-us>

<sup>7</sup> California Energy Commission. <http://www.ecdms.energy.ca.gov/elecbyutil.aspx>

**Table 9  
Southern California Edison Electricity Generation (Year 2017)<sup>1</sup>**

Energy Resource	SCE Electricity Generation	
	GWh <sup>2</sup>	Power Mix
Eligible Renewable	26,973.31	32%
Biomass & Biowaste	-	0%
Geothermal	6,743.33	8%
Eligible Hydroelectric	8.43	0%
Solar	10,957.91	13%
Wind	8,429.16	10%
Coal	-	0%
Large Hydroelectric	6,743.33	8%
Natural Gas	16,858.32	20%
Nuclear	5,057.50	6%
Other	-	0%
Unspecified Sources of Power <sup>3</sup>	28,659.15	34%
<b>Total</b>	<b>84,291.61</b>	<b>100%</b>

<sup>1</sup> Source: California Energy Commission 2017 SCE Power Content Label.

[https://www.energy.ca.gov/pcl/labels/2017\\_labels/SCE\\_2017\\_PCL.pdf](https://www.energy.ca.gov/pcl/labels/2017_labels/SCE_2017_PCL.pdf)

California Energy Commission Electricity Consumption by Entity, SCE, Year 2017, All Sectors

<http://www.ecdms.energy.ca.gov/elecbyutil.aspx>

<sup>2</sup> GWh generated by energy resources estimated based on total energy consumption and power mix.

<sup>3</sup> "Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources.

## **2.5 Southern California Gas Company**

The Southern California Gas Company (SCG) is the nation's largest natural gas distribution utility, providing service to 21.8 million customers in 220 cities and 12 counties from San Luis Obispo to the Mexican border; including service to the project site. SCG owns and operates 3,526 miles of transmission pipelines, 49,715 miles of distribution pipelines and 48,888 miles of service lines. SCG also operates eleven transmission compressor stations

and four underground storage facilities with a combined capacity to store 134.1 billion cubic feet of natural gas.<sup>8</sup>

Table 10 shows SCG’s natural gas usage by sector for year 2017.

**Table 10**  
**Southern California Gas Company**  
**Natural Gas Consumption, by Sector (Year 2017)<sup>1</sup>**

Sector	SCG Natural Gas Usage – Year 2017	
	(Millions of Therms) <sup>2</sup>	(Trillions of Btu) <sup>2</sup>
Agriculture & Water Pump	69.433349	6.9433349
Commercial Building	895.861774	89.5861774
Commercial Other	72.182937	7.2182937
Industry	1,716.567095	171.6567095
Mining & Construction	229.745824	22.9745824
Residential	2,158.052907	215.8052907
<b>Total Usage</b>	<b>5,141.843886</b>	<b>514.1843886</b>

<sup>1</sup> Source: California Energy Commission. <http://www.ecdms.energy.ca.gov/gasbyutil.aspx>

<sup>2</sup> 1 therm = 100,000 Btu

<sup>8</sup> Southern California Gas Company. <https://www.socalgas.com/about-us/company-profile>

## 3.0 Regulatory Setting

Energy is controlled through various federal and state laws and regulations. This section provides a brief overview of key energy legislation and policies at the federal and state levels over the past 50 years.

### 3.1 Federal Regulations

**Table 11**  
**U.S. Energy Policy Legislative Acts**

Date	Legislative Act and Description
1975	<p><b>Energy Policy and Conservation Act</b> Established the Strategic Petroleum Reserve and mandated vehicle fuel economy standards</p>
1978	<p><b>National Energy Act</b> Established tax incentives and disincentives, alternative fuel programs, energy efficiency initiatives, and other regulatory and market-based initiatives in response to the oil crisis earlier in the decade. Comprised of 5 statutes:</p> <p><b>Energy Tax Act</b> Created the Gas Guzzler tax for vehicles with mileage below specified levels and offered income tax credit for citizens using solar, wind, or geothermal energy sources at home</p> <p><b>Natural Gas Policy Act</b> Set up wellhead pricing maximums, rules for allocating costs of high-cost gas to industrial consumers, and provided authority to high priority users in times of supply emergency; gave FERC jurisdiction over almost all natural gas production</p> <p><b>National Energy Conservation Policy Act</b> Replaced Minimum Energy Performance Standards (MEPS) set forth in the EPCA of 1975, changed energy standards from voluntary to mandatory, Required federal agencies to do energy audits of their operations, Provided loans for families to purchase solar heating or cooling systems, and Established grants for schools, hospitals, local governments, and public housing authorities willing to use energy conservation measures</p> <p><b>Power Plant and Industrial Fuel Use Act</b> Restricted construction of power plants fueled primarily by oil or natural gas and instead encouraged power plants fueled by coal, nuclear, and alternative fuels and restricted use of oil and natural gas in industrial boilers. Repealed in 1987 with the Natural Gas Utilization Act</p> <p><b>Public Utility Regulatory Policies Act</b> Promoted use of renewable energy, encouraged cogeneration plants.</p>
1980	<p><b>Energy Security Act</b></p> <p>Title I: US Synthetic Fuels Corporation Act Established the Synthetic Fuels Corporation (which only existed until 1985) for the purpose of partnering with industry for the creation of a market for domestically-produced synthetic liquid fuels; moved research and development for synthetic fuels away from the Department of Energy and into this public-private partnership with the hopes of speeding up results.</p> <p>Title II: Biomass Energy and Alcohol Fuels Act Provided loan guarantees for small-scale biomass energy projects; established the Office of Alcohol Fuels, the Office of Energy from Municipal Waste.</p>

**Table 11  
U.S. Energy Policy Legislative Acts**

Date	Legislative Act and Description
	<p>Title III: Energy Targets Required the submission of energy targets for net imports.</p> <p>Title IV: Renewable Initiatives Established incentives for the use of renewable energy resources</p> <p>Title V: Solar Energy and Energy Conservation Encouraged energy conservation and the use of solar energy, reducing dependence on foreign energy supplies.</p> <p>Title VI: Geothermal Energy Act Authorized loans from the Geothermal Resources Development Fund for exploration and determination of economic viability of a geothermal reservoir, cancels loan if reservoir is deemed unacceptable for development.</p> <p>Title VII: Acid Precipitation Program Established a task force to study the causes and risks of acid precipitation</p> <p>Title VIII: Strategic Petroleum Reserve Established that 500,000,000 barrels of crude oil must be in storage before any can be sold and calls for the reserve to increase its supply 100,000 barrels per day until the storage capacity is reached</p>
1992	<p><b>Energy Policy Act</b> Amended the National Energy Conservation Policy Act of 1978. Created framework for wholesale electricity generation. Provided financial incentives to users/developers of clean-fuel vehicles; repealed alternative minimum tax for some producers. Intended to expand the use of natural gas.</p>
2002	<p><b>Farm Security and Rural Investment Act (Farm Bill)</b> Included \$405 million in mandatory funding over the following 5 years for the procurement of bio-based products, grants and loans for renewable energy and energy efficiency projects, research and development and the bioenergy program. Included, for reasons of national energy and security, rural economic development, and environmental sustainability in light of climate change impacts.</p>
2005	<p><b>Energy Policy Act</b> Offers tax benefits to individuals who increase energy efficiency in existing homes, buy or lease hybrid/alternative vehicles, required all public utilities to offer net metering on request, increased required amounts of renewable fuel in gasoline sold in the US, and encourages more domestic energy production</p>
2007	<p><b>Energy Independence and Security Act</b> Increased CAFE standards to 35 mpg (fleet-wide for passenger autos and light trucks) by 2020; instituted new conservation measures for federal fleet vehicles; authorized increased taxpayer-funded biofuel production (36 billion gallons by 2022 - 21 billion of which must be derived from non-cornstarch products). Revised standards for appliances and lighting; all federal buildings must use Energy Star lighting products; training for green jobs; loans for small business energy efficiency improvements.</p>
2008	<p><b>Food, Conservation, and Energy Act (Farm Bill)</b> Includes provisions for loan guarantees for bio-refineries, payments to support expansion of advanced biofuels, expands the existing Rural Energy for America Program, provides grant monies for biofuel and bio-based product research and development</p>



**Table 11**  
**U.S. Energy Policy Legislative Acts**

Date	Legislative Act and Description
2009	<p><b>The American Recovery and Reinvestment Act of 2009</b></p> <p>\$800 billion economic stimulus package aimed at job creation and the promotion of investment and consumer spending; included \$4.3 billion in tax credits to homeowners for energy efficiency improvements in 2009-2010, \$300 million for reducing diesel engine emissions, \$21.5 billion for energy infrastructure, \$27.2 billion for energy efficiency and renewable energy research and investment, \$2 billion in research for DOE, \$600 million in research for NOAA</p>
2015	<p><b>The Clean Power Plan</b></p> <p>The first comprehensive plan to reduce carbon emissions from power plants by 32% in 2030, compared to 2005 levels. Currently in the process of being repealed by the Trump administration.</p>

<sup>1</sup> Source: Robinson, Brandi. Penn State University. <https://www.e-education.psu.edu/geog432/node/116>

### 3.2 State of California Regulations

California has a long standing history of support for energy conservation and renewable energy.

Table 10 provides a summary of some of the key legislative acts, policies and regulations in the State of California for encouraging energy conservation and renewable energy.

**Table 12**  
**California Energy Policy Legislative Acts and Regulations**

Date	Legislative Act and Description
1974	<p><b>Warren-Alquist Act</b></p> <p>Established the California Energy Commission (CEC) as the state’s primary energy policy and planning agency. Responsible for preparing State Energy Plan. CEC’s goals are to reduce energy costs and environmental impacts of energy use, while ensuring a safe, resilient, and reliable supply of energy.</p>
1978	<p><b>Title 24 of the California Code of Regulations</b></p> <p>Establishes the Renewable Portfolio Standard (RPS) program, requiring 20% of retail sales from renewable energy by 2017.</p>
2002	<p><b>Senate Bill 1078</b></p> <p>Required 20% of retail sales from renewable energy by 2017.</p>
2003	<p><b>Energy Action Plan I</b></p> <p>Accelerated the 20% renewable deadline to 2010.</p>
2005	<p><b>Energy Action Plan II</b></p> <p>Recommended further goal of 33% renewable by 2020.</p>
2006	<p><b>Senate Bill 107</b></p> <p>Codified the accelerated 20% renewable by 2010 deadline into law.</p>

**Table 12**  
**California Energy Policy Legislative Acts and Regulations**

Date	Legislative Act and Description
2008	<b>Executive Order S-14-08</b> Signed by Gov. Schwarzenegger, requires 33% renewables by 2020.
2009	<b>Executive Order S-21-09</b> Directs the California Air Resources Board, under its AB 32 authority, to adopt regulations by July 31, 2010, consistent with the 33% renewable energy target established in Executive Order S-14-08.
2011	<b>Senate Bill X1-2</b> Signed by Gov. Edmund G. Brown, Jr., codifies 33% renewable by 2020 RPS
2015	<b>Senate Bill 350 – Clean Energy and Pollution Reduction Act of 2015</b> Signed by Gov. Edmund G. Brown, Jr. codifies 50% by 2030 RPS
2018	<b>Senate Bill 100</b> Signed by Gov. Edmund G. Brown, Jr. codifies 60% by 2030 & 100% by 2045 RPS

<sup>1</sup> Source: California Energy Commission. <https://www.energy.ca.gov/renewables/index.html>

## **4.0 Project Energy Consumption**

---

### **4.1 Energy Consumption Methodology**

The three (3) main types of energy expected to be consumed by the project include electricity, natural gas and petroleum products in the form of gasoline and diesel fuel. Energy usage for the proposed project is calculated based on the *Briggs Road at Highway 74 Gas Station and Commercial Center Air Quality and GHG Impact Study*, prepared by RK, April 2019.

The California Emissions Estimator Model Version 2016.3.2 (CalEEMod) is used to calculate energy usage from project construction and operational activities.

The CalEEMod Annual Reports for the project are provided in Appendix A.

### **4.2 Electricity Consumption**

The project will use electricity for many different operational activities including, but not limited to, building heating and cooling, lighting, appliances, electronics, mechanical equipment, electric vehicle charging, and parking lot lighting. Indirect electricity usage will also occur to supply, distribute, and treat water and wastewater. Electricity will be provided through Southern California Edison.

Temporary electricity usage for construction activities may include lighting, electric equipment and mobile office uses, however, CalEEMod does not calculate electricity usage during construction, and which is expected to be short-term and relatively minor compared to the operational demand, electricity usage during construction is not counted in this analysis.

Table 13 shows the project's estimated operational electricity consumption in kilowatt-hours per year (kWh/year) and millions of Btu per year.

**Table 13  
Project Electricity Consumption**

Land Use/Activity	Electricity Consumption <sup>1</sup>	
	(kWhr/yr) <sup>2</sup>	(MBtu/yr) <sup>2</sup>
Car Wash (Automobile Care Center)	30,450	103.895
Convenience Market with Gas Pumps	62,733	214.045
Fast Food Restaurant with Drive-Thru	207,488	707.949
Parking Lot	10,500	35.826
Water Supply and Treatment <sup>3</sup>	68,605	234.080
Electric Vehicle Service Equipment (EVSE) <sup>4,5</sup>	45,112	153.922
<b>Total</b>	<b>424,888</b>	<b>1,449.718</b>

<sup>1</sup> Source: Briggs Road at Highway 74 Gas Station and Commercial Center Air Quality and GHG Impact Study, prepared by RK, April 2019.

<sup>2</sup> kWhr/yr = Kilowatt Hours per Year

MBtu/yr = Million British Thermal Units per Year

<sup>3</sup> Water supply and treatment includes indirect electricity for supply, treatment and distribution of water and wastewater

<sup>4</sup> EVSE electricity estimates based on U.S. Department of Energy Costs Associated with Non-Residential Electric Vehicle Supply Equipment, November 2015, Appendix C, Electricity Consumption Examples.

[https://afdc.energy.gov/files/u/publication/evse\\_cost\\_report\\_2015.pdf](https://afdc.energy.gov/files/u/publication/evse_cost_report_2015.pdf)

<sup>5</sup> Assumes 4 charging spaces per CALGreen requirements, Section 5.105.5.3.3.

### **4.3 Natural Gas Consumption**

The project will use natural gas for building heating and cooling, cooking and kitchen appliances and water heating. Natural gas is not expected to be used during construction in any significant quantities and is not included in the overall calculation of the project's natural gas consumption.

Table 14 shows the project's estimated operational natural gas consumption in millions of Btu per year.

**Table 14  
Project Natural Gas Consumption**

<b>Land Use/Activity</b>	<b>Natural Gas Consumption<sup>1</sup> (MBtu/yr)<sup>2</sup></b>
Car Wash (Automobile Care Center)	97.470
Convenience Market with Gas Pumps	11.027
Fast Food Restaurant with Drive-Thru	1,194.933
<b>Total</b>	<b>1,303.430</b>

<sup>1</sup> Source: Briggs Road at Highway 74 Gas Station and Commercial Center Air Quality and GHG Impact Study, prepared by RK, April 2019.

<sup>2</sup> MBtu/yr = Millions of British Thermal Units per Year

#### **4.4 Petroleum Consumption**

The project’s energy consumption from petroleum products is primarily associated with transportation related activities. This includes gasoline and diesel fuel usage for auto and truck trips during construction and operation and off-road equipment usage during construction.

##### **4.4.1 Construction**

Construction of the project is estimated last approximately 14 months and consist of site preparation, grading, building construction, paving, and architectural coating phases. Construction activities will consume energy in the form of motor vehicle fuel (gasoline and diesel) for off-road construction equipment and on-road vehicle trips. Vehicle trips include workers and vendors traveling to and from the job-site, as well as from truck trips associated with the hauling of approximately 5,200 cubic yards of soil to be removed during excavation.

Table 15 shows the project’s energy consumption for all off-road equipment during construction. For purposes of this analysis, all off-road equipment is assumed to run on diesel fuel. Table 16 shows the project’s energy consumption from on-road vehicle trips during construction.

**TABLE 15  
Construction Off-Road Equipment Energy Consumption**

Phase <sup>1</sup>	Phase Duration (Days) <sup>1</sup>	Equipment <sup>1</sup>	Amount <sup>1</sup>	Hours/Day <sup>1</sup>	Horsepower (HP) <sup>1</sup>	Load Factor <sup>1</sup>	HP-hrs <sup>2</sup>	Fuel Consumption Rate <sup>3</sup> (hp-hr/gal)	Diesel Fuel Consumption (gal.)	Diesel Fuel Consumption by Phase (gal.)	MBtu <sup>4</sup>
Site Preparation	10	Rubber Tired Dozers	3	8	247	0.40	23,712.0	18.5	1,281.7	1,902.5	261.371
		Tractors/Loaders/Backhoes	4	8	97	0.37	11,484.8		620.8		
Grading	20	Excavator	1	8	158	0.38	9,606.4		519.3	2,968.0	407.753
		Grader	1	8	187	0.41	12,267.2		663.1		
		Rubber Tired Dozers	1	8	247	0.40	15,808.0		854.5		
		Tractors/Loaders/Backhoes	3	8	97	0.37	17,227.2		931.2		
Building Construction	230	Cranes	1	7	231	0.29	107,853.9		5,829.9	28,752.5	3,950.045
		Forklifts	3	8	89	0.20	98,256.0		5,311.1		
		Generator Sets	1	8	84	0.74	114,374.4		6,182.4		
		Tractors/Loaders/Backhoes	3	7	97	0.37	173,348.7		9,370.2		
		Welders	1	8	46	0.45	38,088.0		2,058.8		
Paving	20	Pavers	2	8	130	0.42	17,472.0		944.4	2,292.2	314.910
		Paving Equipment	2	8	132	0.36	15,206.4	822.0			
		Rollers	2	8	80	0.38	9,728.0	525.8			
Architectural Coating	20	Air Compressors	1	6	78	0.48	4,492.8	242.9	242.9	33.364	
<b>Total Energy Requirements</b>									<b>36,158.2</b>	<b>4,967.443</b>	

<sup>1</sup> Source: Briggs Road at Highway 74 Gas Station and Commercial Center Air Quality and GHG Impact Study, prepared by RK, April 2019. (CalEEMod v.2016.3.2)

<sup>2</sup> HP-hrs = Horsepower Hours.

<sup>3</sup> Source: Carl Moyer Program Guidelines. 2017 Revisions. Table D-21. <https://www.arb.ca.gov/msprog/moyer/guidelines/current.htm>

<sup>4</sup> Mbtu = Millions of Btu; assuming 1 gallon of diesel fuel = 137,381 Btu.

**Table 16  
Construction On-Road Trips Energy Consumption**

Construction Phase <sup>1</sup>	Phase Duration (Days) <sup>1</sup>	Trips /Day <sup>1</sup>	Trip Length <sup>1</sup>	Phase VMT	Vehicle Class <sup>1</sup>	Vehicle Mix <sup>1</sup>	Average Fuel Economy (MPG) <sup>2</sup>	Gasoline		Diesel		Total MBtu <sup>3</sup>		
								Fuel Split <sup>2</sup>	Fuel Consumption by Class (gal.)	Fuel Consumption by Phase (gal.)	Fuel Split <sup>2</sup>		Fuel Consumption by class	Fuel Consumption by Phase
<b>Worker Trips</b>														
Site Preparation	10	18	14.7	2,646	LDA	0.50	28.57	0.9926	45.96		0.0074	0.34	12.85	
					LDT1	0.25	23.26	0.9991	28.41	106.24	0.0009	0.03		0.41
					LDT2	0.25	20.73	0.9986	31.87		0.0014	0.04		
Grading	20	15	14.7	4,410	LDA	0.50	28.57	0.9926	76.61		0.0074	0.57	21.42	
					LDT1	0.25	23.26	0.9991	47.36	177.07	0.0009	0.04		0.69
					LDT2	0.25	20.73	0.9986	53.11		0.0014	0.07		
Building Construction	230	17	14.7	57,477	LDA	0.50	28.57	0.9926	998.45		0.0074	7.44	279.17	
					LDT1	0.25	23.26	0.9991	617.21	2,307.86	0.0009	0.56		8.97
					LDT2	0.25	20.73	0.9986	692.19		0.0014	0.97		
Paving	20	15	14.7	4,410	LDA	0.50	28.57	0.9926	76.61		0.0074	0.57	21.42	
					LDT1	0.25	23.26	0.9991	47.36	177.07	0.0009	0.04		0.69
					LDT2	0.25	20.73	0.9986	53.11		0.0014	0.07		
Architectural Coating	20	3	14.7	882	LDA	0.50	28.57	0.9926	15.32		0.0074	0.11	4.28	
					LDT1	0.25	23.26	0.9991	9.47	35.41	0.0009	0.01		0.14
					LDT2	0.25	20.73	0.9986	10.62		0.0014	0.01		
Sub-Total Worker Trips Energy Consumption								Gasoline (gal.)		Diesel (gal.)		339.14		
<b>Vendor Trips</b>														
Building Construction	230	7	6.9	11,109	MHDT	0.50	8.50	0.1403	91.68		0.8597	561.79	218.51	
					HHDT	0.50	5.85	0.0097	9.21	100.89	0.9903	940.28		1,502.07
<b>Hauling Trips</b>														
Grading	15	43.33	20.0	13,000	HHDT	1.00	5.85	0.0097	21.56	21.56	0.9903	2,200.67	2,200.67	304.93
<b>Total On-Road Construction Trips Energy Usage</b>								<b>Gasoline (gal.)</b>		<b>Diesel (gal.)</b>		<b>862.57</b>		
								<b>2,926.11</b>		<b>3,713.63</b>				

<sup>1</sup> Source: Briggs Road at Highway 74 Gas Station and Commercial Center Air Quality and GHG Impact Study, prepared by RK, April 2019. (CalEEMod v.2016.3.2)

<sup>2</sup> Source: EMFAC2014 Web Database. <https://www.arb.ca.gov/emfac/2014/>. (See Appendix B for more details.)

<sup>3</sup> Mbtu = Millions of Btu; assuming 1 gallon of gasoline fuel = 120,429 Btu and 1 gallon of diesel fuel = 137,381 Btu

#### 4.4.2 Operation

The project is expected to consume energy from the generation of operational auto and truck trips based on the land use mix described in the Briggs Road at Highway 74 Traffic Impact Study and the Briggs Road at Highway 74 Air Quality and Greenhouse Gas Analysis. Vehicle trips are associated with workers, customers and vendors/non-workers (i.e. delivery, service and maintenance vehicles, etc.) traveling to and from the site.

Table 17 shows the project's energy consumption for all operational trips generated by the project on an annual basis.

**Table 17  
Operational Trips Energy Consumption**

Vehicle Class <sup>1</sup>	Vehicle Mix <sup>1</sup>	Average Fuel Economy (MPG) <sup>2</sup>	Annual VMT <sup>1</sup>	Gasoline		Diesel		MBtu/yr <sup>3</sup>
				Fuel Split <sup>2</sup>	Fuel Consumption (gal./yr)	Fuel Split <sup>2</sup>	Fuel Consumption (gal./yr)	
LDA	80.0%	28.57	3,330,404	0.9926	92,565.88	0.0074	690.09	11,242.42
LDT1	8.0%	23.26		0.9991	11,444.22	0.0009	10.31	1,379.63
LDT2	6.0%	20.73		0.9986	9,625.88	0.0014	13.50	1,161.09
MDV	4.0%	15.42		0.9875	8,531.19	0.0125	107.99	1,042.24
MHD	0.9%	8.50		0.1403	494.74	0.8597	3,031.57	476.06
HHD	0.1%	5.85		0.0097	5.52	0.9903	563.78	78.12
MCY	1.0%	35.36		1.0000	941.86	0.0000	0.00	113.43
<b>Total Operational Energy Usage From Transportation</b>				<b>Gasoline</b>	<b>123,609.29</b>	<b>Diesel</b>	<b>4,417.24</b>	<b>15,492.99</b>

<sup>1</sup> Source: Briggs Road at Highway 74 Gas Station and Commercial Center Air Quality and GHG Impact Study, prepared by RK, April 2019. (CalEEMod v.2016.3.2)

<sup>2</sup> Source: EMFAC2014 Web Database. <https://www.arb.ca.gov/emfac/2014/>. (See Appendix B for more details.)

<sup>3</sup> MBtu/yr = Millions of Btu per year; assuming 1 gallon of gasoline fuel = 120,429 Btu and 1 gallon of diesel fuel = 137,381 Btu

#### 4.5 Total Project Energy Consumption

The project's total energy consumption is calculated in MBtu and shown in Table 18. Total project energy consumption includes electricity, natural gas and petroleum usage during construction and operation.



**Table 18**  
**Total Project Energy Consumption<sup>1</sup>**

Activity	Energy Consumption (MBtu/yr) <sup>2</sup>
<b>Construction<sup>3</sup></b>	<b>5,830.01</b>
Off-Road Equipment	4,967.44
On-Road Vehicle Trips	862.57
<b>Operational</b>	<b>18,246.14</b>
Electricity	1,449.72
Natural Gas	1,303.43
Petroleum	15,492.99

<sup>1</sup> See Tables 13-17 for more details.

<sup>2</sup> MBtu/yr = Millions of Btu per year

<sup>3</sup> Assumes all construction activity will occur within one year timespan.

## **5.0 Energy Impacts**

---

### **5.1 Energy Impact Criteria**

This analysis has been prepared within the context of the CEQA Guidelines, Appendix F, Energy Conservation, and Appendix G, Environmental Checklist Form. According to CEQA, the goal of conserving energy implies the wise and efficient use of energy through decreasing overall per capita energy consumption, decreasing reliance on fossil fuels (such as coal, natural gas and oil), and increasing reliance on renewable energy sources.

A significant environmental impact would result if the project would;

- a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation, or;
- b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

### **5.2 Energy Impact – 1**

*Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?*

The project's impact is considered less than significant as the project will be required to comply with the mandatory requirements of California's Building Energy Efficiency Standards (Title 24, Part 6) and Green Building Standards (CALGreen, Title 24, Part 11). California's building energy efficiency standards are some of the strictest in the nation and the project's compliance with California's building code will ensure that wasteful, inefficient or unnecessary consumption of energy is minimized. The building standards code is designed to reduce the amount of energy needed to heat or cool a building, reduce energy usage for lighting and appliances and promote usage of energy from renewable sources.

The following recommended project design features are provided to help ensure that wasteful, inefficient or unnecessary consumption of energy is minimized.

### **Construction Design Features:**

- DF-1.** All construction equipment shall be maintained in proper tune.
- DF-2.** All construction vehicles shall be prohibited from excessive idling. Excessive idling is defined as five (5) minutes or longer.
- DF-3.** Carpooling shall be encouraged for construction workers
- DF-4.** Establish an electricity supply to the construction site and use electric powered equipment instead of diesel-powered equipment or generators, where feasible.

### **Operational Design Features:**

- DF-5.** Comply with the mandatory requirements of California's Building Energy Efficiency Standards and Green Building (CALGreen) Standards, including mandatory installation of electric vehicle service equipment (EVSE).
- DF-6.** Implement water conservation strategies, including low flow fixtures and toilets, water efficient irrigation systems, drought tolerant/native landscaping, and reduce the amount of turf.
- DF-7.** Use electric landscaping equipment, such as lawn mowers and leaf blowers.

### **5.3 Energy Impact – 2**

*Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?*

The project's impact is considered less than significant as the project will purchase electricity through Southern California Edison which is subject to the requirements of California Senate Bill 100 (SB 100). SB 100 is the most stringent and current energy legislation in California; requiring that renewable energy resources and zero-carbon

resources supply 100% of retail sales of electricity to California end-use customers and 100% of electricity procured to serve all state agencies by December 31, 2045.<sup>9</sup>

The project will further comply with the mandatory requirements of California's Green Building and Building Energy Efficiency standards that promote renewable energy and energy efficiency.

---

<sup>9</sup> SB-100 California Renewables Portfolio Standard Program.  
[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201720180SB100](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180SB100)

## 6.0 References

---

The following references were used in the preparing this analysis.

California Energy Commission. 2017 SCE Power Content Label.

[https://www.energy.ca.gov/pcl/labels/2017\\_labels/SCE\\_2017\\_PCL.pdf](https://www.energy.ca.gov/pcl/labels/2017_labels/SCE_2017_PCL.pdf). Website accessed March 2019.

California Energy Commission. California Energy Almanac.

<https://www.energy.ca.gov/almanac/>. Website accessed March 2019.

California Energy Commission. Electricity Consumption by Entity, SCE, Year 2017, All

Sectors. <http://www.ecdms.energy.ca.gov/elecbyutil.aspx>. Website accessed March 2019.

California Energy Commission. Gas Consumption by Entity, SCG, Year 2017, All Sectors.

<http://www.ecdms.energy.ca.gov/gasbyutil.aspx>. Website accessed March 2019.

California Energy Commission. Renewable Energy Overview and Programs.

<https://www.energy.ca.gov/renewables/index.html>. Website accessed March 2019.

Carl Moyer Program Guidelines. 2017 Revisions. Table D-21.

<https://www.arb.ca.gov/msprog/moyer/guidelines/current.htm>. Website accessed March 2019.

EMFAC2014 Web Database. <https://www.arb.ca.gov/emfac/2014/>. Website accessed

March 2019.

Robinson, Brandi. Penn State University. Department of Geography. Geog 432 Energy

Policy. <https://www.e-education.psu.edu/geog432/node/116>. Website Accessed March 2019.

Southern California Edison. About Us. <https://www.sce.com/about-us>. Website accessed

March 2019.

Southern California Gas Company. Company profile.

<https://www.socalgas.com/about-us/company-profile>. Website accessed March 2019.

SB-100 California Renewables Portfolio Standard Program.

[http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=201720180SB100](http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180SB100). Website accessed March 2019.

U.S. Department of Energy. EVSE electricity estimates based on U.S. Department of Energy Costs Associated with Non-Residential Electric Vehicle Supply Equipment. Appendix C Electricity Consumption Examples. November 2015.

[https://afdc.energy.gov/files/u/publication/evse\\_cost\\_report\\_2015.pdf](https://afdc.energy.gov/files/u/publication/evse_cost_report_2015.pdf). Website accessed March 2019.

U.S. Energy Information Administration (EIA). California State Profile and Energy Estimates.

<https://www.eia.gov/state/?sid=CA#tabs-1>. Website accessed March 2019.

U.S. Energy Information Administration (EIA). Energy Explained.

[https://www.eia.gov/energyexplained/?page=us\\_energy\\_home#tab1](https://www.eia.gov/energyexplained/?page=us_energy_home#tab1). Website accessed March 2019.

U.S Energy Information Administration (EIA). Total Energy Data.

<https://www.eia.gov/totalenergy/data/browser/index.php?tbl=T01.03#/?f=A>. Website accessed March 2019.

---

# Appendices

---

## **Appendix A**

CalEEMod Annual Emissions Output



BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee**  
**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	75.00	Space	4.76	30,000.00	0
Fast Food Restaurant with Drive Thru	4.37	1000sqft	0.10	4,370.00	0
Automobile Care Center	3.00	1000sqft	0.07	3,000.00	0
Convenience Market With Gas Pumps	16.00	Pump	0.11	4,967.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2019
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

Project Characteristics -

Land Use - Land use assumptions based on site plan for CUP 2017-226

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - 5,200 cubic yards of material export

Vehicle Trips - Ite Trip Generation Rates 10th Edition, 2017; Ite (948) Automated Car Wash rates used for Auto Care Center; C-C trips rates based on market survey.

Water And Wastewater - Water use assumptions based on International Car Wash Association Water Use in the Professional Car Wash Industry, 2002

Solid Waste - CalEEMod does not calculate waste for convenience market/gas station based on pumps metric. 4,967 sf convenience market generates 14.94 tons/year per CalEEMod default assumptions. Solid waste added to auto care center. (14.94 + 11.46 = 26.40).

Sequestration -

Construction Off-road Equipment Mitigation - Project is required to comply SCAQMD rule 403 regarding fugitive dust control.

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Fleet Mix - Fleet Mix adjusted per recommendations from City of Menifee staff.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFleetMix	HHD	0.07	1.0000e-003
tblFleetMix	HHD	0.07	1.0000e-003

## BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

tblFleetMix	HHD	0.07	1.0000e-003
tblFleetMix	LDA	0.53	0.80
tblFleetMix	LDA	0.53	0.80
tblFleetMix	LDA	0.53	0.80
tblFleetMix	LDT1	0.04	0.08
tblFleetMix	LDT1	0.04	0.08
tblFleetMix	LDT1	0.04	0.08
tblFleetMix	LDT2	0.18	0.06
tblFleetMix	LDT2	0.18	0.06
tblFleetMix	LDT2	0.18	0.06
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.5610e-003	0.00
tblFleetMix	LHD2	5.5610e-003	0.00
tblFleetMix	LHD2	5.5610e-003	0.00
tblFleetMix	MCY	4.6770e-003	0.01
tblFleetMix	MCY	4.6770e-003	0.01
tblFleetMix	MCY	4.6770e-003	0.01
tblFleetMix	MDV	0.13	0.04
tblFleetMix	MDV	0.13	0.04
tblFleetMix	MDV	0.13	0.04
tblFleetMix	MH	1.2110e-003	0.00
tblFleetMix	MH	1.2110e-003	0.00
tblFleetMix	MH	1.2110e-003	0.00
tblFleetMix	MHD	0.02	9.0000e-003
tblFleetMix	MHD	0.02	9.0000e-003

## BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

tblFleetMix	MHD	0.02	9.0000e-003
tblFleetMix	OBUS	1.3450e-003	0.00
tblFleetMix	OBUS	1.3450e-003	0.00
tblFleetMix	OBUS	1.3450e-003	0.00
tblFleetMix	SBUS	9.7400e-004	0.00
tblFleetMix	SBUS	9.7400e-004	0.00
tblFleetMix	SBUS	9.7400e-004	0.00
tblFleetMix	UBUS	1.2470e-003	0.00
tblFleetMix	UBUS	1.2470e-003	0.00
tblFleetMix	UBUS	1.2470e-003	0.00
tblLandUse	LandUseSquareFeet	2,258.80	4,967.00
tblLandUse	LotAcreage	0.68	4.76
tblLandUse	LotAcreage	0.05	0.11
tblSequestration	NumberOfNewTrees	0.00	50.00
tblSolidWaste	SolidWasteGenerationRate	11.46	26.40
tblTripsAndVMT	HaulingTripNumber	0.00	650.00
tblVehicleTrips	CC_TL	8.40	4.00
tblVehicleTrips	CC_TL	8.40	4.00
tblVehicleTrips	CC_TL	8.40	4.00
tblVehicleTrips	CC_TL	8.40	4.00
tblVehicleTrips	ST_TR	23.72	304.00
tblVehicleTrips	ST_TR	204.47	291.67
tblVehicleTrips	ST_TR	722.03	616.12
tblVehicleTrips	SU_TR	11.88	304.00
tblVehicleTrips	SU_TR	166.88	291.67
tblVehicleTrips	SU_TR	542.72	472.58
tblVehicleTrips	WD_TR	23.72	142.00

## BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

tblVehicleTrips	WD_TR	542.60	230.52
tblVehicleTrips	WD_TR	496.12	470.95
tblWater	IndoorWaterUseRate	282,243.32	0.00
tblWater	OutdoorWaterUseRate	172,987.84	3,587,860.00

## 2.0 Emissions Summary

---



BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-1-2018	12-31-2018	1.1578	1.1578
2	1-1-2019	3-31-2019	0.7846	0.7846
3	4-1-2019	6-30-2019	0.7934	0.7934
4	7-1-2019	9-30-2019	0.7946	0.7946
		Highest	1.1578	1.1578

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	0.0528	1.0000e-005	1.2700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4400e-003	2.4400e-003	1.0000e-005	0.0000	2.6100e-003
Energy	7.0300e-003	0.0639	0.0537	3.8000e-004		4.8600e-003	4.8600e-003		4.8600e-003	4.8600e-003	0.0000	168.7017	168.7017	5.4300e-003	2.1200e-003	169.4697
Mobile	1.5811	1.2135	8.9019	0.0133	1.2463	0.0160	1.2624	0.3312	0.0149	0.3461	0.0000	1,192.9637	1,192.9637	0.0666	0.0000	1,194.6277
Waste						0.0000	0.0000		0.0000	0.0000	15.5775	0.0000	15.5775	0.9206	0.0000	38.5927
Water						0.0000	0.0000		0.0000	0.0000	0.4739	19.5606	20.0345	0.0495	1.3200e-003	21.6638
<b>Total</b>	<b>1.6409</b>	<b>1.2774</b>	<b>8.9568</b>	<b>0.0136</b>	<b>1.2463</b>	<b>0.0209</b>	<b>1.2672</b>	<b>0.3312</b>	<b>0.0198</b>	<b>0.3509</b>	<b>16.0514</b>	<b>1,381.2284</b>	<b>1,397.2798</b>	<b>1.0421</b>	<b>3.4400e-003</b>	<b>1,424.3565</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**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	0.0528	1.0000e-005	1.2700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4400e-003	2.4400e-003	1.0000e-005	0.0000	2.6100e-003
Energy	6.5000e-003	0.0591	0.0496	3.5000e-004		4.4900e-003	4.4900e-003		4.4900e-003	4.4900e-003	0.0000	150.7238	150.7238	4.8000e-003	1.9200e-003	151.4151
Mobile	1.5756	1.1971	8.7569	0.0128	1.1977	0.0157	1.2134	0.3183	0.0146	0.3328	0.0000	1,153.5669	1,153.5669	0.0652	0.0000	1,155.1972
Waste						0.0000	0.0000		0.0000	0.0000	7.7888	0.0000	7.7888	0.4603	0.0000	19.2963
Water						0.0000	0.0000		0.0000	0.0000	0.4739	12.8789	13.3528	0.0492	1.2600e-003	14.9582
<b>Total</b>	<b>1.6348</b>	<b>1.2562</b>	<b>8.8078</b>	<b>0.0132</b>	<b>1.1977</b>	<b>0.0202</b>	<b>1.2179</b>	<b>0.3183</b>	<b>0.0190</b>	<b>0.3373</b>	<b>8.2627</b>	<b>1,317.1721</b>	<b>1,325.4348</b>	<b>0.5795</b>	<b>3.1800e-003</b>	<b>1,340.8695</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.37</b>	<b>1.66</b>	<b>1.66</b>	<b>3.37</b>	<b>3.90</b>	<b>3.49</b>	<b>3.89</b>	<b>3.90</b>	<b>3.59</b>	<b>3.88</b>	<b>48.52</b>	<b>4.64</b>	<b>5.14</b>	<b>44.39</b>	<b>7.56</b>	<b>5.86</b>



BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	35.4000
<b>Total</b>	<b>35.4000</b>

**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	10/1/2018	10/12/2018	5	10	
2	Grading	Grading	10/13/2018	11/9/2018	5	20	
3	Building Construction	Building Construction	11/10/2018	9/27/2019	5	230	
4	Paving	Paving	9/28/2019	10/25/2019	5	20	
5	Architectural Coating	Architectural Coating	10/26/2019	11/22/2019	5	20	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 4.76**

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 18,506; Non-Residential Outdoor: 6,169; Striped Parking Area: 1,800 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	650.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	17.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Soil Stabilizer
- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads

**3.2 Site Preparation - 2018**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.2410	0.1124	1.9000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	17.3800	17.3800	5.4100e-003	0.0000	17.5152
<b>Total</b>	<b>0.0228</b>	<b>0.2410</b>	<b>0.1124</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>0.0129</b>	<b>0.1032</b>	<b>0.0497</b>	<b>0.0119</b>	<b>0.0615</b>	<b>0.0000</b>	<b>17.3800</b>	<b>17.3800</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.5152</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**3.2 Site Preparation - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.7000e-004	3.8100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8816	0.8816	3.0000e-005	0.0000	0.8822
<b>Total</b>	<b>4.9000e-004</b>	<b>3.7000e-004</b>	<b>3.8100e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8816</b>	<b>0.8816</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.8822</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0346	0.0000	0.0346	0.0190	0.0000	0.0190	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.2410	0.1124	1.9000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	17.3799	17.3799	5.4100e-003	0.0000	17.5152
<b>Total</b>	<b>0.0228</b>	<b>0.2410</b>	<b>0.1124</b>	<b>1.9000e-004</b>	<b>0.0346</b>	<b>0.0129</b>	<b>0.0474</b>	<b>0.0190</b>	<b>0.0119</b>	<b>0.0308</b>	<b>0.0000</b>	<b>17.3799</b>	<b>17.3799</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.5152</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**3.2 Site Preparation - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.7000e-004	3.8100e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8816	0.8816	3.0000e-005	0.0000	0.8822
<b>Total</b>	<b>4.9000e-004</b>	<b>3.7000e-004</b>	<b>3.8100e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>1.0000e-003</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8816</b>	<b>0.8816</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.8822</b>

**3.3 Grading - 2018**

**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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3067	0.1658	3.0000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	27.1069	27.1069	8.4400e-003	0.0000	27.3178
<b>Total</b>	<b>0.0277</b>	<b>0.3067</b>	<b>0.1658</b>	<b>3.0000e-004</b>	<b>0.0655</b>	<b>0.0155</b>	<b>0.0810</b>	<b>0.0337</b>	<b>0.0143</b>	<b>0.0479</b>	<b>0.0000</b>	<b>27.1069</b>	<b>27.1069</b>	<b>8.4400e-003</b>	<b>0.0000</b>	<b>27.3178</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**3.3 Grading - 2018**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9600e-003	0.0908	0.0111	2.5000e-004	5.6000e-003	3.3000e-004	5.9400e-003	1.5400e-003	3.2000e-004	1.8600e-003	0.0000	24.0277	24.0277	1.6000e-003	0.0000	24.0676
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	8.1000e-004	6.2000e-004	6.3500e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4693	1.4693	4.0000e-005	0.0000	1.4704
<b>Total</b>	<b>2.7700e-003</b>	<b>0.0914</b>	<b>0.0174</b>	<b>2.7000e-004</b>	<b>7.2500e-003</b>	<b>3.4000e-004</b>	<b>7.6000e-003</b>	<b>1.9800e-003</b>	<b>3.3000e-004</b>	<b>2.3100e-003</b>	<b>0.0000</b>	<b>25.4970</b>	<b>25.4970</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>25.5380</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0251	0.0000	0.0251	0.0129	0.0000	0.0129	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0277	0.3067	0.1658	3.0000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	27.1068	27.1068	8.4400e-003	0.0000	27.3178
<b>Total</b>	<b>0.0277</b>	<b>0.3067</b>	<b>0.1658</b>	<b>3.0000e-004</b>	<b>0.0251</b>	<b>0.0155</b>	<b>0.0406</b>	<b>0.0129</b>	<b>0.0143</b>	<b>0.0272</b>	<b>0.0000</b>	<b>27.1068</b>	<b>27.1068</b>	<b>8.4400e-003</b>	<b>0.0000</b>	<b>27.3178</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**3.3 Grading - 2018**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9600e-003	0.0908	0.0111	2.5000e-004	5.6000e-003	3.3000e-004	5.9400e-003	1.5400e-003	3.2000e-004	1.8600e-003	0.0000	24.0277	24.0277	1.6000e-003	0.0000	24.0676
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	8.1000e-004	6.2000e-004	6.3500e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4693	1.4693	4.0000e-005	0.0000	1.4704
<b>Total</b>	<b>2.7700e-003</b>	<b>0.0914</b>	<b>0.0174</b>	<b>2.7000e-004</b>	<b>7.2500e-003</b>	<b>3.4000e-004</b>	<b>7.6000e-003</b>	<b>1.9800e-003</b>	<b>3.3000e-004</b>	<b>2.3100e-003</b>	<b>0.0000</b>	<b>25.4970</b>	<b>25.4970</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>25.5380</b>

**3.4 Building Construction - 2018**

**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	0.0482	0.4210	0.3165	4.8000e-004		0.0270	0.0270		0.0254	0.0254	0.0000	42.7981	42.7981	0.0105	0.0000	43.0602
<b>Total</b>	<b>0.0482</b>	<b>0.4210</b>	<b>0.3165</b>	<b>4.8000e-004</b>		<b>0.0270</b>	<b>0.0270</b>		<b>0.0254</b>	<b>0.0254</b>	<b>0.0000</b>	<b>42.7981</b>	<b>42.7981</b>	<b>0.0105</b>	<b>0.0000</b>	<b>43.0602</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**3.4 Building Construction - 2018**

**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	4.7000e-004	0.0155	3.1800e-003	3.0000e-005	8.0000e-004	1.3000e-004	9.2000e-004	2.3000e-004	1.2000e-004	3.5000e-004	0.0000	3.1407	3.1407	2.8000e-004	0.0000	3.1476
Worker	1.6600e-003	1.2600e-003	0.0130	3.0000e-005	3.3600e-003	2.0000e-005	3.3800e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	2.9974	2.9974	9.0000e-005	0.0000	2.9996
<b>Total</b>	<b>2.1300e-003</b>	<b>0.0168</b>	<b>0.0161</b>	<b>6.0000e-005</b>	<b>4.1600e-003</b>	<b>1.5000e-004</b>	<b>4.3000e-003</b>	<b>1.1200e-003</b>	<b>1.4000e-004</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>6.1381</b>	<b>6.1381</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>6.1472</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0482	0.4210	0.3165	4.8000e-004		0.0270	0.0270		0.0254	0.0254	0.0000	42.7981	42.7981	0.0105	0.0000	43.0602
<b>Total</b>	<b>0.0482</b>	<b>0.4210</b>	<b>0.3165</b>	<b>4.8000e-004</b>		<b>0.0270</b>	<b>0.0270</b>		<b>0.0254</b>	<b>0.0254</b>	<b>0.0000</b>	<b>42.7981</b>	<b>42.7981</b>	<b>0.0105</b>	<b>0.0000</b>	<b>43.0602</b>



BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**3.4 Building Construction - 2018**

**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	4.7000e-004	0.0155	3.1800e-003	3.0000e-005	8.0000e-004	1.3000e-004	9.2000e-004	2.3000e-004	1.2000e-004	3.5000e-004	0.0000	3.1407	3.1407	2.8000e-004	0.0000	3.1476
Worker	1.6600e-003	1.2600e-003	0.0130	3.0000e-005	3.3600e-003	2.0000e-005	3.3800e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	2.9974	2.9974	9.0000e-005	0.0000	2.9996
<b>Total</b>	<b>2.1300e-003</b>	<b>0.0168</b>	<b>0.0161</b>	<b>6.0000e-005</b>	<b>4.1600e-003</b>	<b>1.5000e-004</b>	<b>4.3000e-003</b>	<b>1.1200e-003</b>	<b>1.4000e-004</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>6.1381</b>	<b>6.1381</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>6.1472</b>

**3.4 Building Construction - 2019**

**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	0.2290	2.0446	1.6649	2.6100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	228.0511	228.0511	0.0556	0.0000	229.4400
<b>Total</b>	<b>0.2290</b>	<b>2.0446</b>	<b>1.6649</b>	<b>2.6100e-003</b>		<b>0.1251</b>	<b>0.1251</b>		<b>0.1176</b>	<b>0.1176</b>	<b>0.0000</b>	<b>228.0511</b>	<b>228.0511</b>	<b>0.0556</b>	<b>0.0000</b>	<b>229.4400</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**3.4 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-003	0.0784	0.0156	1.8000e-004	4.2900e-003	5.9000e-004	4.8800e-003	1.2400e-003	5.6000e-004	1.8000e-003	0.0000	16.8131	16.8131	1.4300e-003	0.0000	16.8489
Worker	8.1900e-003	5.9700e-003	0.0626	1.7000e-004	0.0181	1.1000e-004	0.0182	4.8100e-003	1.0000e-004	4.9200e-003	0.0000	15.6590	15.6590	4.3000e-004	0.0000	15.6698
<b>Total</b>	<b>0.0105</b>	<b>0.0843</b>	<b>0.0782</b>	<b>3.5000e-004</b>	<b>0.0224</b>	<b>7.0000e-004</b>	<b>0.0231</b>	<b>6.0500e-003</b>	<b>6.6000e-004</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>32.4722</b>	<b>32.4722</b>	<b>1.8600e-003</b>	<b>0.0000</b>	<b>32.5187</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2290	2.0446	1.6649	2.6100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	228.0508	228.0508	0.0556	0.0000	229.4397
<b>Total</b>	<b>0.2290</b>	<b>2.0446</b>	<b>1.6649</b>	<b>2.6100e-003</b>		<b>0.1251</b>	<b>0.1251</b>		<b>0.1176</b>	<b>0.1176</b>	<b>0.0000</b>	<b>228.0508</b>	<b>228.0508</b>	<b>0.0556</b>	<b>0.0000</b>	<b>229.4397</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**3.4 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3000e-003	0.0784	0.0156	1.8000e-004	4.2900e-003	5.9000e-004	4.8800e-003	1.2400e-003	5.6000e-004	1.8000e-003	0.0000	16.8131	16.8131	1.4300e-003	0.0000	16.8489
Worker	8.1900e-003	5.9700e-003	0.0626	1.7000e-004	0.0181	1.1000e-004	0.0182	4.8100e-003	1.0000e-004	4.9200e-003	0.0000	15.6590	15.6590	4.3000e-004	0.0000	15.6698
<b>Total</b>	<b>0.0105</b>	<b>0.0843</b>	<b>0.0782</b>	<b>3.5000e-004</b>	<b>0.0224</b>	<b>7.0000e-004</b>	<b>0.0231</b>	<b>6.0500e-003</b>	<b>6.6000e-004</b>	<b>6.7200e-003</b>	<b>0.0000</b>	<b>32.4722</b>	<b>32.4722</b>	<b>1.8600e-003</b>	<b>0.0000</b>	<b>32.5187</b>

**3.5 Paving - 2019**

**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	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	6.2400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0208</b>	<b>0.1524</b>	<b>0.1467</b>	<b>2.3000e-004</b>		<b>8.2500e-003</b>	<b>8.2500e-003</b>		<b>7.5900e-003</b>	<b>7.5900e-003</b>	<b>0.0000</b>	<b>20.4752</b>	<b>20.4752</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.6371</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**3.5 Paving - 2019**

**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	7.5000e-004	5.4000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4244	1.4244	4.0000e-005	0.0000	1.4254
<b>Total</b>	<b>7.5000e-004</b>	<b>5.4000e-004</b>	<b>5.6900e-003</b>	<b>2.0000e-005</b>	<b>1.6500e-003</b>	<b>1.0000e-005</b>	<b>1.6600e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.4244</b>	<b>1.4244</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.4254</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	6.2400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0208</b>	<b>0.1524</b>	<b>0.1467</b>	<b>2.3000e-004</b>		<b>8.2500e-003</b>	<b>8.2500e-003</b>		<b>7.5900e-003</b>	<b>7.5900e-003</b>	<b>0.0000</b>	<b>20.4752</b>	<b>20.4752</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.6371</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**3.5 Paving - 2019**

**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	7.5000e-004	5.4000e-004	5.6900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4244	1.4244	4.0000e-005	0.0000	1.4254
<b>Total</b>	<b>7.5000e-004</b>	<b>5.4000e-004</b>	<b>5.6900e-003</b>	<b>2.0000e-005</b>	<b>1.6500e-003</b>	<b>1.0000e-005</b>	<b>1.6600e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.4244</b>	<b>1.4244</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.4254</b>

**3.6 Architectural Coating - 2019**

**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	0.0614					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	2.5533	2.5533	2.2000e-004	0.0000	2.5587
<b>Total</b>	<b>0.0640</b>	<b>0.0184</b>	<b>0.0184</b>	<b>3.0000e-005</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.5587</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**3.6 Architectural Coating - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.1400e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2849	0.2849	1.0000e-005	0.0000	0.2851
<b>Total</b>	<b>1.5000e-004</b>	<b>1.1000e-004</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2849</b>	<b>0.2849</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2851</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0614					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	2.5533	2.5533	2.2000e-004	0.0000	2.5586
<b>Total</b>	<b>0.0640</b>	<b>0.0184</b>	<b>0.0184</b>	<b>3.0000e-005</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>		<b>1.2900e-003</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.5586</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**3.6 Architectural Coating - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.1000e-004	1.1400e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2849	0.2849	1.0000e-005	0.0000	0.2851
<b>Total</b>	<b>1.5000e-004</b>	<b>1.1000e-004</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2849</b>	<b>0.2849</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2851</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Implement Trip Reduction Program

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.5756	1.1971	8.7569	0.0128	1.1977	0.0157	1.2134	0.3183	0.0146	0.3328	0.0000	1,153.5669	1,153.5669	0.0652	0.0000	1,155.1972
Unmitigated	1.5811	1.2135	8.9019	0.0133	1.2463	0.0160	1.2624	0.3312	0.0149	0.3461	0.0000	1,192.9637	1,192.9637	0.0666	0.0000	1,194.6277

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	426.00	912.00	912.00	610,098	583,160
Convenience Market With Gas Pumps	3,688.32	4,666.72	4666.72	1,387,211	1,334,957
Fast Food Restaurant with Drive Thru	2,058.05	2,692.44	2065.17	1,333,095	1,282,431
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>6,172.37</b>	<b>8,271.16</b>	<b>7,643.89</b>	<b>3,330,404</b>	<b>3,200,549</b>

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	4.00	6.90	33.00	48.00	19.00	21	51	28
Convenience Market With Gas	16.60	4.00	6.90	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	16.60	4.00	6.90	2.20	78.80	19.00	29	21	50
Parking Lot	16.60	4.00	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix



BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.800000	0.080000	0.060000	0.040000	0.000000	0.000000	0.009000	0.001000	0.000000	0.000000	0.010000	0.000000	0.000000
Convenience Market With Gas Pumps	0.800000	0.080000	0.060000	0.040000	0.000000	0.000000	0.009000	0.001000	0.000000	0.000000	0.010000	0.000000	0.000000
Fast Food Restaurant with Drive Thru	0.800000	0.080000	0.060000	0.040000	0.000000	0.000000	0.009000	0.001000	0.000000	0.000000	0.010000	0.000000	0.000000
Parking Lot	0.533383	0.039495	0.183627	0.126156	0.018688	0.005561	0.017029	0.066607	0.001345	0.001247	0.004677	0.000974	0.001211

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive 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	86.4380	86.4380	3.5700e-003	7.4000e-004	86.7472
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	99.1457	99.1457	4.0900e-003	8.5000e-004	99.5004
Natural Gas Mitigated	6.5000e-003	0.0591	0.0496	3.5000e-004		4.4900e-003	4.4900e-003		4.4900e-003	4.4900e-003	0.0000	64.2858	64.2858	1.2300e-003	1.1800e-003	64.6679
Natural Gas Unmitigated	7.0300e-003	0.0639	0.0537	3.8000e-004		4.8600e-003	4.8600e-003		4.8600e-003	4.8600e-003	0.0000	69.5560	69.5560	1.3300e-003	1.2800e-003	69.9693

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**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					
Automobile Care Center	97470	5.3000e-004	4.7800e-003	4.0100e-003	3.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.2014	5.2014	1.0000e-004	1.0000e-004	5.2323
Convenience Market With Gas Pumps	11026.7	6.0000e-005	5.4000e-004	4.5000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5884	0.5884	1.0000e-005	1.0000e-005	0.5919
Fast Food Restaurant with Drive Thru	1.19493e+006	6.4400e-003	0.0586	0.0492	3.5000e-004		4.4500e-003	4.4500e-003		4.4500e-003	4.4500e-003	0.0000	63.7662	63.7662	1.2200e-003	1.1700e-003	64.1451
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
<b>Total</b>		<b>7.0300e-003</b>	<b>0.0639</b>	<b>0.0537</b>	<b>3.8000e-004</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>		<b>4.8500e-003</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>69.5560</b>	<b>69.5560</b>	<b>1.3300e-003</b>	<b>1.2800e-003</b>	<b>69.9693</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	85950	4.6000e-004	4.2100e-003	3.5400e-003	3.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004	0.0000	4.5866	4.5866	9.0000e-005	8.0000e-005	4.6139
Convenience Market With Gas Pumps	8642.58	5.0000e-005	4.2000e-004	3.6000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4612	0.4612	1.0000e-005	1.0000e-005	0.4639
Fast Food Restaurant with Drive Thru	1.11008e+006	5.9900e-003	0.0544	0.0457	3.3000e-004		4.1400e-003	4.1400e-003		4.1400e-003	4.1400e-003	0.0000	59.2380	59.2380	1.1400e-003	1.0900e-003	59.5900
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
<b>Total</b>		<b>6.5000e-003</b>	<b>0.0591</b>	<b>0.0496</b>	<b>3.6000e-004</b>		<b>4.4900e-003</b>	<b>4.4900e-003</b>		<b>4.4900e-003</b>	<b>4.4900e-003</b>	<b>0.0000</b>	<b>64.2858</b>	<b>64.2858</b>	<b>1.2400e-003</b>	<b>1.1800e-003</b>	<b>64.6679</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	30450	9.7020	4.0000e-004	8.0000e-005	9.7367
Convenience Market With Gas Pumps	62733.2	19.9881	8.3000e-004	1.7000e-004	20.0597
Fast Food Restaurant with Drive Thru	207488	66.1100	2.7300e-003	5.6000e-004	66.3465
Parking Lot	10500	3.3455	1.4000e-004	3.0000e-005	3.3575
<b>Total</b>		<b>99.1457</b>	<b>4.1000e-003</b>	<b>8.4000e-004</b>	<b>99.5004</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	26602.5	8.4761	3.5000e-004	7.0000e-005	8.5065
Convenience Market With Gas Pumps	50079.8	15.9565	6.6000e-004	1.4000e-004	16.0136
Fast Food Restaurant with Drive Thru	186730	59.4962	2.4600e-003	5.1000e-004	59.7091
Parking Lot	7875	2.5091	1.0000e-004	2.0000e-005	2.5181
<b>Total</b>		<b>86.4380</b>	<b>3.5700e-003</b>	<b>7.4000e-004</b>	<b>86.7472</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0528	1.0000e-005	1.2700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4400e-003	2.4400e-003	1.0000e-005	0.0000	2.6100e-003
Unmitigated	0.0528	1.0000e-005	1.2700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4400e-003	2.4400e-003	1.0000e-005	0.0000	2.6100e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0465					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.2700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4400e-003	2.4400e-003	1.0000e-005	0.0000	2.6100e-003
<b>Total</b>	<b>0.0528</b>	<b>1.0000e-005</b>	<b>1.2700e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.4400e-003</b>	<b>2.4400e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.6100e-003</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0465					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.2700e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4400e-003	2.4400e-003	1.0000e-005	0.0000	2.6100e-003
<b>Total</b>	<b>0.0528</b>	<b>1.0000e-005</b>	<b>1.2700e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.4400e-003</b>	<b>2.4400e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.6100e-003</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	13.3528	0.0492	1.2600e-003	14.9582
Unmitigated	20.0345	0.0495	1.3200e-003	21.6638

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 3.58786	12.7006	5.2000e-004	1.1000e-004	12.7461
Convenience Market With Gas Pumps	0.167315 / 0.102548	1.1102	5.5000e-003	1.4000e-004	1.2887
Fast Food Restaurant with Drive Thru	1.32644 / 0.0846665	6.2236	0.0435	1.0700e-003	7.6291
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>20.0345</b>	<b>0.0495</b>	<b>1.3200e-003</b>	<b>21.6638</b>



BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0 / 1.79393	6.3503	2.6000e-004	5.0000e-005	6.3730
Convenience Market With Gas Pumps	0.167315 / 0.0512739	0.9287	5.4900e-003	1.4000e-004	1.1065
Fast Food Restaurant with Drive Thru	1.32644 / 0.0423333	6.0738	0.0435	1.0700e-003	7.4787
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>13.3528</b>	<b>0.0492</b>	<b>1.2600e-003</b>	<b>14.9582</b>

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.7888	0.4603	0.0000	19.2963
Unmitigated	15.5775	0.9206	0.0000	38.5927

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	26.4	5.3590	0.3167	0.0000	13.2766
Fast Food Restaurant with Drive Thru	50.34	10.2186	0.6039	0.0000	25.3161
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>15.5775</b>	<b>0.9206</b>	<b>0.0000</b>	<b>38.5927</b>

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	13.2	2.6795	0.1584	0.0000	6.6383
Fast Food Restaurant with Drive Thru	25.17	5.1093	0.3020	0.0000	12.6580
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>7.7888</b>	<b>0.4603</b>	<b>0.0000</b>	<b>19.2963</b>

**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
----------------	--------

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**11.0 Vegetation**

---

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	35.4000	0.0000	0.0000	35.4000

BRIGGS ROAD AT SR-74 GAS STATION AND RETAIL CENTER, City of Menifee - Riverside-South Coast County, Annual

**11.2 Net New Trees**

**Species Class**

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Aspen	0	0.0000	0.0000	0.0000	0.0000
Cedar/Larch	0	0.0000	0.0000	0.0000	0.0000
Douglas Fir	0	0.0000	0.0000	0.0000	0.0000
Hardwood Maple	0	0.0000	0.0000	0.0000	0.0000
Juniper	0	0.0000	0.0000	0.0000	0.0000
Miscellaneous	50	35.4000	0.0000	0.0000	35.4000
Mixed Hardwood	0	0.0000	0.0000	0.0000	0.0000
Pine	0	0.0000	0.0000	0.0000	0.0000
Soft Maple	0	0.0000	0.0000	0.0000	0.0000
Spruce	0	0.0000	0.0000	0.0000	0.0000
True Fir/Hemlock	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>35.4000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>35.4000</b>

## **Appendix B**

EMFAC2014 Vehicle Consumption Data

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: Air District

Region: South Coast AQMD

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Fuel Split (Gas:Diesel)	MPG, by Fuel Type	MPG, Average
South Coast AQMD	2020	LDA	Aggregated	Aggregated	GAS	6241441.311	215630250.8	7791.379047	99.26%	27.68	28.57
South Coast AQMD	2020	LDA	Aggregated	Aggregated	DSL	58578.66528	2170199.073	58.44052993	0.74%	37.14	
South Coast AQMD	2020	LDA	Aggregated	Aggregated	ELEC	139480.2104	6499653.924	0			
South Coast AQMD	2020	LDT1	Aggregated	Aggregated	GAS	529468.9231	17839921.58	767.6565063	99.91%	23.24	23.26
South Coast AQMD	2020	LDT1	Aggregated	Aggregated	DSL	653.8523923	17424.66748	0.656771586	0.09%	26.53	
South Coast AQMD	2020	LDT1	Aggregated	Aggregated	ELEC	394.8926991	12300.5894	0			
South Coast AQMD	2020	LDT2	Aggregated	Aggregated	GAS	2196840.435	81691950.79	3942.87661	99.86%	20.72	20.73
South Coast AQMD	2020	LDT2	Aggregated	Aggregated	DSL	3707.582469	150823.0049	5.330165365	0.14%	28.30	
South Coast AQMD	2020	MDV	Aggregated	Aggregated	GAS	1480427.171	49182321.35	3206.973029	98.75%	15.34	15.42
South Coast AQMD	2020	MDV	Aggregated	Aggregated	DSL	22607.57726	887377.5364	40.62845112	1.25%	21.84	
South Coast AQMD	2020	LHDT1	Aggregated	Aggregated	GAS	122811.721	3538562.329	324.3272067	66.50%	10.91	14.08
South Coast AQMD	2020	LHDT1	Aggregated	Aggregated	DSL	93218.10849	3329186.678	163.383972	33.50%	20.38	
South Coast AQMD	2020	LHDT2	Aggregated	Aggregated	GAS	25139.08857	867472.8869	85.31303659	51.00%	10.17	14.35
South Coast AQMD	2020	LHDT2	Aggregated	Aggregated	DSL	39016.92297	1532624.982	81.98131358	49.00%	18.69	
South Coast AQMD	2020	MHDT	Aggregated	Aggregated	GAS	19760.80313	980184.6784	139.5109867	14.03%	7.03	8.50
South Coast AQMD	2020	MHDT	Aggregated	Aggregated	DSL	134726.0007	7469482.082	854.6440674	85.97%	8.74	
South Coast AQMD	2020	HHDT	Aggregated	Aggregated	GAS	802.1440496	104174.0551	22.12472978	0.97%	4.71	5.85
South Coast AQMD	2020	HHDT	Aggregated	Aggregated	DSL	94066.79161	13265170	2263.379935	99.03%	5.86	
South Coast AQMD	2020	OBUS	Aggregated	Aggregated	GAS	8436.227028	392438.6707	54.40171127	47.32%	7.21	7.25
South Coast AQMD	2020	OBUS	Aggregated	Aggregated	DSL	5358.43226	441411.1364	60.5737995	52.68%	7.29	
South Coast AQMD	2020	UBUS	Aggregated	Aggregated	GAS	2327.880438	267944.8976	53.57098395	32.69%	5.00	4.86
South Coast AQMD	2020	UBUS	Aggregated	Aggregated	DSL	4588.150023	527953.961	110.2967884	67.31%	4.79	
South Coast AQMD	2020	SBUS	Aggregated	Aggregated	GAS	2258.46776	86380.44602	7.601539992	21.33%	11.36	8.10
South Coast AQMD	2020	SBUS	Aggregated	Aggregated	DSL	5309.122191	202336.044	28.02826434	78.67%	7.22	
South Coast AQMD	2020	MCY	Aggregated	Aggregated	GAS	289961.5795	1955845.416	55.31831514	100.00%	35.36	35.36
South Coast AQMD	2020	MH	Aggregated	Aggregated	GAS	37922.10127	307217.3044	41.47456076	83.45%	7.41	7.88
South Coast AQMD	2020	MH	Aggregated	Aggregated	DSL	9968.340503	84286.45216	8.223037177	16.55%	10.25	